

# ULLRICH ALUMINIUM



## Extrusions

EDITION 16

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## The Ullrich Aluminium Extrusion Process

*Extrusion Production* is by far the most complex and dedicated phase in the process of providing our extruded profiles. It requires the specific technology, technical skills and experience gained from our decades long history as a family owned company to achieve this.

The extensive process moves from the creation of specific *Steel Dies* (matrices), whose design is entrusted to expert technicians, assisted by the most modern means of *CAD* two-dimensional and three-dimensional shape designs. During the extrusion process the suitably preheated *Aluminium Billets* are pushed under pressure by the ram of our press through the designed *Die*, this then transforms the extrusion into long profiled lengths by one of our three presses which vary in power, from 2000 to 2500 tons.

**Ullrich Aluminium** has the production capacity to supply small, medium and large profiles up to 15.4 metres in length, and 10kg per metre in weight. The extrusion is produced in compliance to the working tolerances of the AS/NZS 1866 Standard. That ensures the assembly of finished components and facilitates the obtainment of quality certification of the final product.

After their extrusion, the profiled sections are subjected to *Straightening* (stretching), a process that brings profiles within the required lineal tolerances. Then once cut to the required length they are transferred into special ageing ovens for the tempering process, which achieves their optimal tensile strengths. The packing stations are the final phase in the production line, where the profiles are packed and protected in preparation for the subsequent stages of storage, transport or delivery to destination.

**Ullrich Aluminium** constantly strives to offer its customers valuable assistance, aimed at optimising an outcome in which to achieve the best possible design, processing and execution times for the profiles. We also strive to provide a positive response to different needs of a technical or aesthetic nature.

Our in-house developed production control system makes it possible to track the requests submitted by the customer and to monitor the progress of the project during the production process. This tracking can be beneficial for our numerous Australian, New Zealand and Export clients.

When you need *Extruded Aluminium Products* think of **Ullrich Aluminium** as your first stop for assistance on your journey forward. Our 46 facilities in all major cities and regions of Australia and New Zealand will be pleased to provide you with a quality of service experience.

Kind Regards

Gilbert Ullrich  
CEO



**Manufacturers of Quality Aluminium Extrusions**

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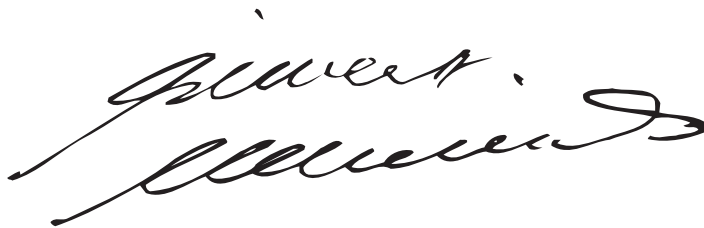
# ULLRICH ALUMINIUM EXTRUSION CATALOGUE

## EDITION 16

A COMPREHENSIVE CATALOGUE  
OF ALUMINIUM EXTRUSIONS

FROM THE ULLEXCO DIVISION OF  
ULLRICH ALUMINIUM COMPANY LTD,  
A 100% NEW ZEALAND OWNED AND  
OPERATED COMPANY

“Ullexco will meet all customer requirements  
to ISO 9001 and is committed to achieving  
continual improvement across all aspects of  
our quality management system.”



Gilbert W Ullrich  
CEO  
2018

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The Ullrich Aluminium Extrusion Catalogue has been prepared as a comprehensive resource book for architects, designers, specifiers, builders, engineers and fabricators.

### Catalogue features

Edition 16 features include:

- The Ullrich service network
- Numeric die number index
- Cataloging by section to industry type
- Die and description index for each section
- Accurate, actual size profile diagrams
- Related profile data in easy-reference lists
- Assembly hints and diagrams
- Extrusion terminology
- Aluminium properties and tolerances data
- Historical information
- Handling and storage guidance
- Surface treatment and cleaning information
- Imperial-metric conversion tables
- Graph pages for planning and notes
- Internet-accessible profile drawings

### Disclaimer

Every effort has been made to ensure accuracy and the most up-to-date information in the compilation of this catalogue. However, Ullrich Aluminium Company Ltd does not accept responsibility for any inaccuracy or errors contained herein. Information and values presented are intended only as a guide to performance and application suitability. Nothing herein contained constitutes a warranty that any product is specifically suitable for a particular purpose. Ullrich Aluminium reserves the right to change product design and specifications without notice.

### Ordering

Availability of certain product lines, stock lengths, tempers and alloys may vary at different Ullrich Aluminium Sales Centres. Please enquire about the availability of your particular requirements before placing your order.

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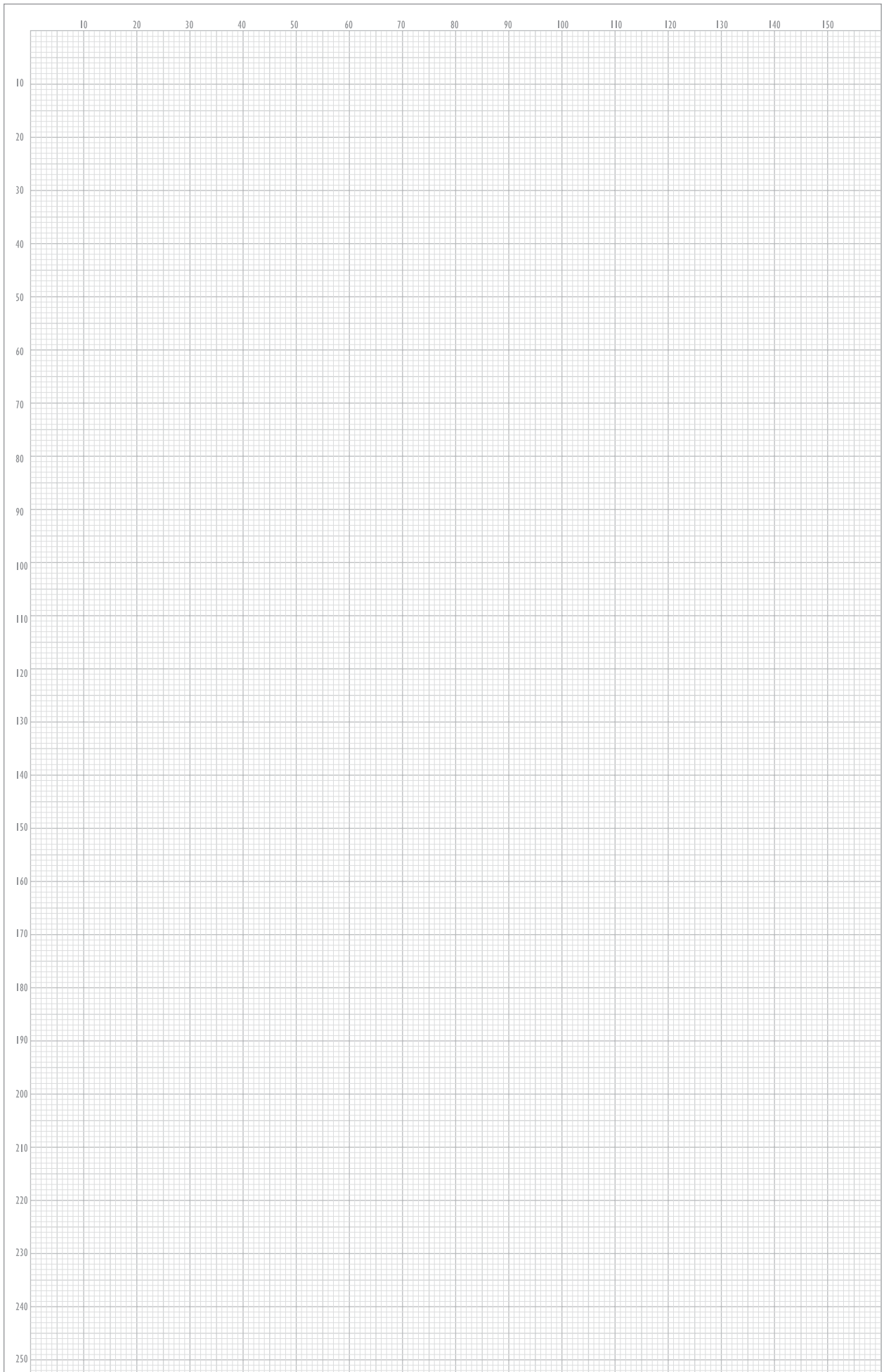
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P = EXT PERIPHERY

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UA 5833	14-3	UA 6173	1-24	AUS 6490	20-5	UA 6750	1-23
UA 5840	1-14	UA 6214	13-3	AUS 6492	1-16	UA 6758	12-3
AUS 5843	1-24	AUS 6244	7-3	AUS 6493	1-21	UA 6759	1-18
UA 5844	1-24	UA 6246	10-2	AUS 6494	1-6	UA 6770	5-4
UA 5854	1-1	UA 6249	1-9	AUS 6495	1-1	UA 6771	5-4
AUS 5859	1-22	UA 6250	1-13	AUS 6496	1-1	UA 6784	7-6
AUS 5860	1-12	UA 6260	1-24	AUS 6500	21-4	UA 6821	1-23
UA 5861	1-8	AUS 6272	17-5	AUS 6501	21-4	AUS 6829	2-7
UA 5889	5-4	AUS 6282	1-13	AUS 6502	21-4	UA 6836	9-3
AUS 5895	2-5	UA 6292	1-16	AUS 6506	1-11	UA 6837	1-12
AUS 5896	2-5	UA 6323	14-4	AUS 6506	21-7	UA 6856	12-4
AUS 5897	2-5	UA 6324	14-4	AUS 6507	1-11	UA 6856	21-5
AUS 5898	2-5	UA 6339	1-22	AUS 6507	21-7	UA 6857	21-5
AUS 5899	2-5	UA 6341	17-1	AUS 6518	9-4	UA 6859	21-6
AUS 5900	2-5	UA 6354	1-22	AUS 6520	10-3	UA 6860	12-3
AUS 5901	1-6	AUS 6357	17-10	AUS 6522	1-16	UA 6861	17-3
UA 5904	1-8	UA 6382	13-3	AUS 6523	1-16	UA 6862	17-3
AUS 5905	1-8	UA 6388	7-5	AUS 6524	1-17	UA 6876	12-3
UA 5906	1-8	UA 6393	21-6	UA 6526	12-3	UA 6877	1-1
AUS 5907	1-5	UA 6394	21-6	UA 6542	16-7	UA 6877	2-4
AUS 5908	1-6	UA 6396	21-1	AUS 6546	9-4	UA 6878	1-6
UA 5909	1-11	UA 6397	21-6	AUS 6547	9-4	UA 6878	2-1
UA 5910	1-3	UA 6401	12-1	UA 6553	6-1	UA 6879	2-4
UA 5917	13-3	AUS 6427	17-11	AUS/UA 6556	18-4	UA 6880	2-4
UA 5918	13-3	AUS 6428	17-11	UA 6567	7-4	UA 6887	8-4
UA 5918	13-6	AUS 6429	17-11	UA 6578	1-8	UA 6892	7-9
AUS 5922	1-23	UA 6430	12-3	UA 6585	21-2	AUS 6907	1-6
UA 5928	13-5	UA 6432	1-14	UA 6596	20-6	UA 6920	1-15
UA 5928	13-7	AUS 6435	2-7	UA 6597	20-6	UA 6929	1-6
UA 5937	1-15	AUS 6444	1-13	UA 6598	20-6	UA 6933	1-9
UA 5938	1-3	AUS 6445	12-9	UA 6599	20-6	UA 6934	1-20
UA 5938	2-4	AUS 6446	12-9	UA 6608	14-4		
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AUS 5940	1-16	AUS 6448	12-9	UA 6611	7-1		
UA 5945	1-17	AUS 6449	12-9	AUS 6616	2-7		
UA 5948	20-2	AUS 6450	12-9	AUS 6617	2-5		

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DIE No	PAGE	DIE No	PAGE	DIE No	PAGE	DIE No	PAGE
UA 6935	1-20	UA 7096	14-4	UA 7280	16-4	UA 7581	15-2
UA 6936	1-20	UA 7102	1-17	UA 7281	16-4	UA 7613	12-4
UA 6937	1-20	UA 7103	1-17	UA 7282	16-4	UA 7613	21-5
UA 6938	1-20	UA 7104	1-17	UA 7283	16-4	UA 7628	1-26
UA 6939	1-20	UA 7106	1-21	UA 7284	16-3	UA 7654	21-5
UA 6941	1-20	UA 7107	1-23	UA 7285	16-3	UA 7655	21-5
UA 6942	1-20	UA 7117	1-11	UA 7286	16-4	UA 7656	21-5
UA 6943	1-20	UA 7133	1-23	UA 7287	16-4	UA 7657	21-5
UA 6944	1-20	UA 7134	1-23	UA 7320	1-17	UA 7672	1-12
UA 6945	1-20	UA 7168	1-12	UA 7329	18-2	UA 7694	12-4
UA 6946	1-20	UA 7169	1-12	UA 7330	1-17	UA 7694	21-5
UA 6947	1-20	UA 7170	1-8	UA 7339	1-18	UA 7702	13-5
UA 6948	1-20	UA 7171	1-6	UA 7340	1-17	UA 7710	9-3
UA 6949	1-20	UA 7172	2-2	UA 7350	1-17	UA 7713	17-3
AUS/UA 6950	18-3	UA 7173	1-18	UA 7360	1-17	UA 7714	1-12
AUS/UA 6951	18-3	UA 7174	1-18	UA 7370	1-17	UA 7715	9-3
AUS/UA 6952	18-3	UA 7175	1-18	UA 7380	1-17	UA 7726	14-1
AUS/UA 6953	18-3	UA 7176	1-18	UA 7390	1-17	UA 7742	16-5
AUS/UA 6954	18-3	UA 7177	5-2	UA 7400	1-5	UA 7743	16-5
AUS/UA 6955	18-3	UA 7198	12-4	UA 7401	14-1	UA 7773	12-8
AUS/UA 6956	18-3	UA 7223	1-17	UA 7404	1-22	UA 7774	12-8
AUS/UA 6957	18-4	UA 7237	17-5	UA 7409	1-6	UA 7778	13-6
AUS/UA 6958	18-4	UA 7250	16-1	UA 7410	1-17	UA 7785	16-2
AUS/UA 6959	18-4	UA 7251	16-1	UA 7416	1-9	UA 7787	1-17
UA 6965	1-24	UA 7252	16-1	UA 7420	1-17	UA 7788	12-8
AUS/UA 6969	18-4	UA 7253	16-2	UA 7425	12-2	UA 7803	1-14
AUS/UA 6970	18-4	UA 7254	16-2	UA 7430	1-17	UA 7827	8-3
AUS/UA 6971	18-4	UA 7255	16-2	UA 7433	1-7	UA 7828	8-4
UA 6975	14-1	UA 7256	16-3	UA 7435	1-17	UA 7829	8-2
UA 7007	9-2	UA 7257	16-3	UA 7440	1-17	UA 7837	14-2
UA 7007	9-4	UA 7258	16-1	UA 7446	13-6	UA 7840	16-3
UA 7008	9-2	UA 7259	16-1	UA 7447	13-6	UA 7868	14-1
UA 7008	9-4	UA 7260	16-1	UA 7450	1-17	UA 7891	5-4
UA 7023	13-7	UA 7261	16-1	UA 7452	12-4	UA 7892	5-4
UA 7024	13-7	UA 7262	16-1	UA 7454	1-11	UA 7893	1-12
UA 7025	16-9	UA 7263	16-1	UA 7461	12-4	UA 7893	5-4
UA 7069	1-24	UA 7264	16-3	UA 7524	1-13	UA 7894	1-7
UA 7070	17-1	UA 7265	16-3	UA 7525	1-9	AUS 8005	1-15
UA 7071	17-1	UA 7266	16-3	UA 7558	15-1	AUS 8006	1-5
UA 7072	5-3	UA 7267	16-1	UA 7559	15-1	AUS 8007	1-9
UA 7085	21-2	UA 7268	16-1	UA 7560	15-1	AUS 8029	12-5
UA 7086	21-1	UA 7268	16-3	UA 7561	15-1	AUS 8030	1-9
UA 7087	21-1	UA 7269	16-1	UA 7562	15-1	AUS 8031	1-17
UA 7088	21-1	UA 7269	16-3	UA 7563	15-1	AUS 8049	1-11
UA 7089	21-1	UA 7270	16-3	UA 7564	15-1	AUS 8109	1-25
UA 7090	21-1	UA 7271	16-3	UA 7565	15-1	AUS 8109	20-7
UA 7091	21-1	UA 7272	16-3	UA 7566	15-2	AUS 8110	20-7
UA 7092	21-1	UA 7273	16-1	UA 7567	15-2	AUS 8111	20-7
UA 7092	21-6	UA 7274	16-2	UA 7568	15-2	AUS 8117	1-6
UA 7094	14-4	UA 7275	16-2	UA 7569	15-2	AUS 8163	1-14
UA 7095	14-4	UA 7276	16-4	UA 7570	15-2	AUS 8169	1-25
		UA 7277	16-4	UA 7571	15-2	AUS 8179	1-24
		UA 7278	16-4	UA 7572	15-2	AUS 8196	1-23
		UA 7279	16-4	UA 7573	15-2	AUS 8214	21-4



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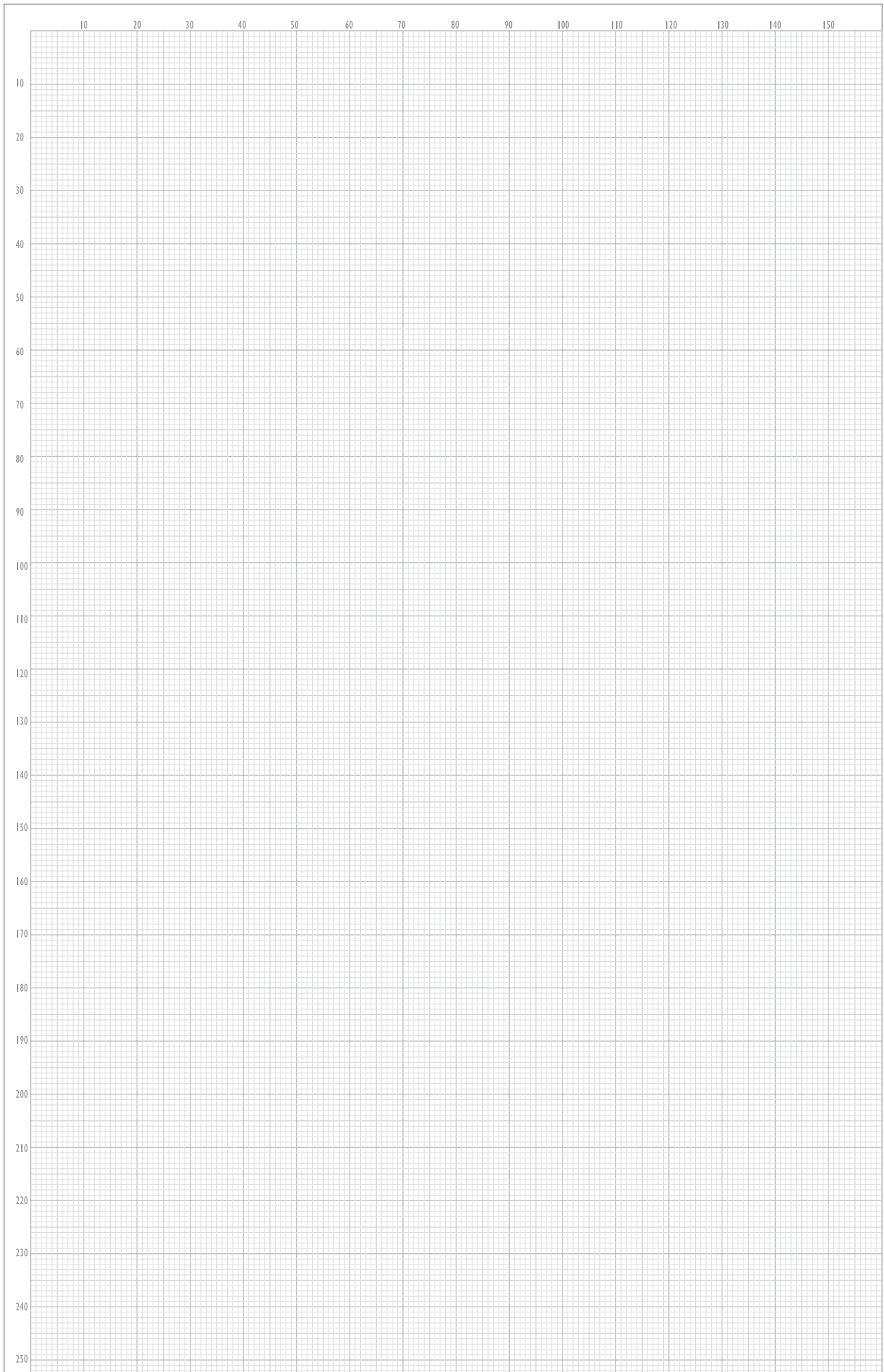


DIE No	PAGE	DIE No	PAGE	DIE No	PAGE	DIE No	PAGE
AUS 8222	17-10	AUS 8952	1-4	AUS 10371	7-11		
AUS 8223	1-6	AUS 8953	1-1	AUS 10372	7-11		
AUS 8233	21-4	AUS 8954	8-1	AUS 10413	17-5		
AUS 8254	1-4	AUS 8955	1-8	UA 10414	21-1		
AUS 8288	17-10	AUS 8965	1-1	UA 10415	21-1		
AUS 8289	1-7	AUS 8970	1-8	AUS 10421	1-21		
AUS 8341	1-2	AUS 8974	2-7	UA 10422	21-3		
AUS 8362	6-1	AUS 10004	1-11	UA 10423	21-1		
UA 8370	9-5	AUS 10015	7-12	UA 10424	21-1		
AUS 8422	12-5	AUS 10016	1-25	UA 10440	1-3		
AUS 8443	1-13	AUS 10018	12-5	UA 10444	21-2		
AUS 8446	17-10	AUS 10028	1-13	AUS 10467	1-18		
AUS 8447	1-1	AUS 10031	9-4	AUS 10474	1-16		
AUS 8449	20-5	AUS 10039	9-4	AUS 10523	12-5		
AUS 8450	20-5	AUS 10048	1-23	AUS 10553	17-2		
AUS 8457	1-9	AUS 10049	17-10	AUS 10558	10-2		
AUS 8465	1-16	AUS 10050	17-10	AUS 10561	1-13		
AUS 8474	1-18	AUS 10051	17-10	AUS 10581	1-2		
AUS 8476	1-15	AUS 10052	17-10	AUS 10614	1-18		
AUS 8480	1-9	AUS 10054	6-1	AUS 10615	21-7		
AUS/UA 8560	18-4	UA 10061	9-5	AUS 10616	21-7		
AUS 8577	1-21	UA 10062	9-5				
AUS 8582	17-11	UA 10063	9-5				
AUS 8596	1-6	UA 10064	9-5				
AUS 8600	7-10	AUS 10065	9-4				
AUS 8606	15-6	AUS 10079	17-11	2011-ROD	1-19		
AUS 8607	15-6	AUS 10080	17-11	FREE MACHINING			
AUS 8644	7-10	AUS 10081	17-12				
AUS 8704	1-7	AUS 10082	17-12				
AUS 8741	1-9	AUS 10085	1-11				
AUS/UA 8767	18-4	AUS 10102	12-6				
AUS 8799	1-15	AUS 10120	5-5				
AUS 8814	1-9	AUS 10121	5-5				
AUS 8816	7-5	AUS 10122	5-5				
AUS 8817	1-25	AUS 10123	5-5				
AUS 8826	1-23	AUS 10124	5-5				
AUS 8845	1-12	AUS 10127	5-5				
AUS 8848	7-10	AUS 10134	17-10				
AUS 8849	7-10	AUS 10135	1-25				
AUS 8850	7-10	AUS 10136	17-10				
AUS 8864	20-5	AUS 10146	1-4				
AUS 8867	1-18	AUS 10180	17-12				
AUS 8871	1-22	AUS 10229	20-5				
AUS 8880	1-15	AUS 10230	20-5				
AUS 8881	1-8	AUS 10231	1-23				
AUS 8896	1-16	AUS 10247	6-1				
AUS 8901	1-2	AUS 10274	17-1				
AUS 8905	1-11	AUS 10283	7-12				
AUS 8909	1-16	AUS 10300	1-24				
AUS 8927	1-24	AUS 10309	17-10				
AUS 8940	2-7	AUS 10353	21-4				
AUS 8942	1-1	AUS 10354	21-4				
AUS 8943	1-5	AUS 10369	7-11				
AUS 8944	1-6	AUS 10370	7-11				

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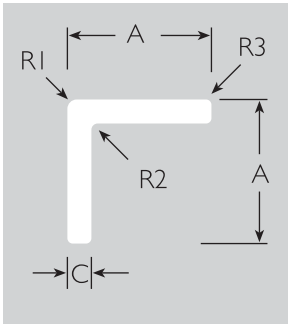
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**EQUAL ANGLE**  
**UNEQUAL ANGLE**  
**CHANNEL**  
**SQUARE HOLLOW**  
**RECTANGULAR HOLLOW**  
**EXTRUDED ROUNDTUBE**  
**DRAWN ROUND TUBE**  
**SOLID ROUND**  
**SOLID SQUARE**  
**SOLID HEXAGON**  
**SOLID FREE MACHINING ROD**  
**MACHINING FLAT BAR**  
**FLAT BAR**  
**TEE**  
**HALF ROUND**  
**COPE MOULD**  
**ZED**  
**I BEAM**  
**TOP HAT**

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R = Radiused corner

DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 2071	10.00		1.60					0.080	40
UA 1090	12.00		1.60					0.097	48
UA 1097	12.00		3.00					0.170	48
UA 1091	15.00		1.60					0.123	60
UA 1092	20.00		1.60					0.166	80
UA 1101	20.00		3.00					0.299	80
UA 5505	22.00		1.60					0.183	88
UA 1094	25.00		1.60					0.210	100
UA 1103	25.00		3.00					0.382	100
UA 1113	25.00		4.50					0.555	100
UA 1121	25.00		6.00					0.715	100
UA 1096	30.00		1.60					0.253	120
UA 1105	30.00		3.00					0.463	120
UA 1612	30.00		4.50					0.677	120
UA 1532	30.00		6.00					0.875	120
UA 2503	30.00		6.00	3.00	1.50	F		0.850	113
AUS 6496	32.00		1.60					0.269	128
UA 5854	32.00		3.00	0.50	0.50	0.50		0.494	127
AUS 8942	35.00		2.00					0.367	140
UA 2812	35.00		4.50					0.799	140
UA 6877	38.00		1.45					0.291	152
UA 1613	38.10		4.75					0.919	152
UA 1099	40.00		1.60					0.340	160
UA 1107	40.00		3.00					0.626	160
AUS 8447	40.00		4.00					0.821	160
UA 1114	40.00		4.50					0.920	160
UA 1122	40.00		6.00					1.203	160
UA 2502	40.00		6.00	3.00	1.50	F		1.178	153
UA 1100	50.00		1.60					0.426	200
UA 2714	50.00		2.00					0.531	200
UA 1110	50.00		3.00					0.785	200
UA 5279	50.00		4.00	0.50	0.50	0.50		1.036	199
UA 1116	50.00		4.50					1.160	200
UA 1123	50.00		6.00					1.523	200
UA 3089	50.00		6.00	0.50	6.00	0.50		1.543	197
UA 1129	50.00		9.00					2.219	200
AUS 8965	50.08		6.35			6.10		1.654	200
AUS 6495	60.00		3.00	0.50	0.50	0.50		0.947	239
UA 1711	60.00		6.00					1.853	240
UA 1124	65.00		6.00					2.016	260
UA 2167	75.00		3.00					1.195	300
UA 1526	75.00		4.50					1.768	300
UA 1126	75.00		6.00					2.341	300
UA 1527	75.00		9.00					3.426	300
AUS 8953	76.20		6.35			7.62		2.537	301



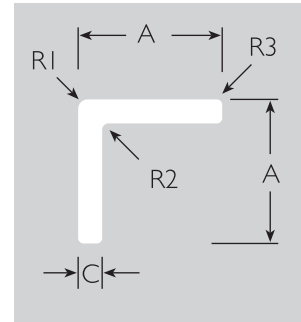
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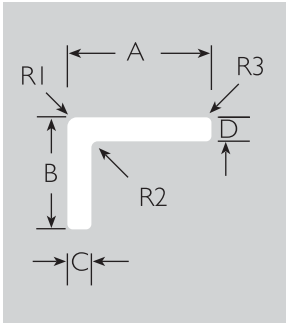
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AUS 8901	76.20		9.52		0.50	7.60		3.705	301
UA 1712	80.00		6.00					2.504	320
UA 1127	90.00		6.00					2.829	360
UA 1118	100.00		6.00					3.143	400
AUS 10581	100.00		10.00		0.80	0.50	0.80	5.128	399
AUS 8341	150.00		6.00					4.783	597



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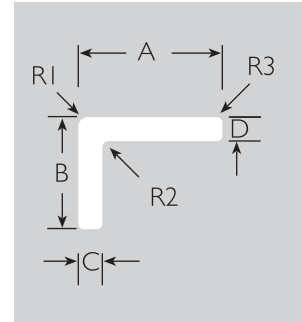
DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1533	19.05	9.53	1.59					0.116	57
UA 1731	20.00	12.00	1.60					0.131	64
UA 1102	22.00	12.00	3.00					0.252	68
UA 5504	22.00	18.00	1.60					0.166	80
UA 1534	22.23	9.53	1.59					0.130	64
UA 1093	25.00	12.00	1.60					0.153	74
UA 1535	25.00	12.00	3.00					0.276	74
UA 1857	25.00	19.00	1.20					0.138	88
UA 1732	25.00	20.00	1.60					0.187	90
UA 1529	25.00	20.00	3.00					0.340	90
UA 3339	30.00	12.00	4.50	0.50		0.50		0.455	83
UA 1530	30.00	20.00	1.60					0.209	100
UA 1104	30.00	20.00	3.00					0.382	100
UA 1095	30.00	25.00	1.60					0.231	110
UA 1531	30.00	25.00	2.50					0.354	110
UA 2943	32.00	20.00	1.60					0.218	104
UA 5910	32.00	25.00	3.00					0.437	114
UA 1524	38.00	25.00	3.00					0.488	126
UA 1651	40.00	12.00	1.60					0.218	104
UA 4556	40.00	12.00	3.00					0.397	104
UA 1098	40.00	20.00	1.60					0.253	120
UA 4493	40.00	20.00	3.00					0.461	120
UA 2295	40.00	20.00	4.00	0.50		0.50		0.604	119
UA 1068	40.00	25.00	1.60					0.275	130
UA 1106	40.00	25.00	3.00					0.504	130
UA 2599	42.00	25.00	2.00					0.351	134
UA 1926	50.00	20.00	1.60					0.295	140
UA 1108	50.00	20.00	3.00					0.544	140
UA 2848	50.00	25.00	1.60					0.318	150
UA 1109	50.00	25.00	3.00					0.585	150
UA 1974	50.00	30.00	1.60					0.340	160
UA 1115	50.00	40.00	4.50					1.042	180
UA 2378	60.00	30.00	6.00					1.361	180
UA 3031	60.00	30.00	6.00	3.00	1.50		F	1.336	173
UA 1111	65.00	25.00	3.00					0.707	180
UA 2776	70.00	25.00	2.00					0.504	190
UA 5938	70.00	40.00	1.60					0.468	220
UA 1112	75.00	25.00	3.00					0.788	200
UA 3785	75.00	25.00	6.00	0.50		0.50		1.522	199
UA 3504	75.00	30.00	4.50	0.50		0.50		1.220	209
UA 1525	75.00	50.00	3.00					0.988	250
UA 1117	75.00	50.00	4.50					1.469	250
UA 1125	75.00	50.00	6.00					1.935	250
AUS 8952	76.20	50.80	6.35			6.86		2.095	251
AUS 10440	80.00	20.00	3.00					0.785	199
UA 3100	85.00	20.00	3.00					0.826	210



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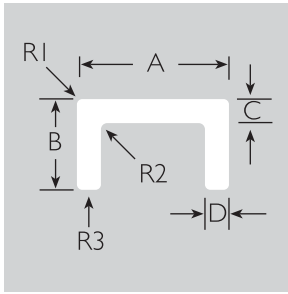
DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1614	90.00	60.00	6.00					2.341	300
UA 1615	90.00	65.00	6.00					2.422	310
UA 4688	100.00	25.00	2.00					0.664	250
UA 3870	100.00	25.00	3.00					0.988	250
UA 2078	100.00	50.00	2.00					0.802	300
UA 2048	100.00	50.00	3.00					1.195	300
UA 2805	100.00	50.00	4.50					1.774	300
UA 1119	100.00	50.00	6.00					2.333	300
UA 3537	100.00	75.00	6.00	11.00	5.00	F		2.661	338
UA 3861	100.00	75.00	8.00	0.50		0.50		3.606	347
UA 1528	100.00	75.00	12.00					5.281	350
UA 5335	115.00	75.00	9.00					4.398	380
UA 2984	125.00	40.00	6.00					2.585	330
UA 4589	130.00	54.00	2.00					0.983	368
UA 6468	150.00	75.00	3.00	0.50	0.50	0.50		1.798	449
UA 1120	150.00	75.00	6.00					3.548	450
UA 1128	150.00	75.00	9.00					5.268	450
AUS 10146	150.00	100.00	3.00	0.50	0.50	0.50		2.000	499
AUS 8254	200.00	40.00	3.50					2.235	480



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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>UA 3768</b>	9.50	13.00	2.40	1.60				0.153	66
<b>UA 1130</b>	10.00	10.00	1.60	1.60				0.116	57
<b>UA 1374</b>	10.00	15.00	1.60	1.50				0.151	76
<b>UA 1713</b>	12.00	12.00	1.60	1.60				0.142	68
<b>UA 1134</b>	12.00	12.00	2.50	2.50				0.210	67
<b>UA 1131</b>	12.00	18.00	1.60	1.60				0.193	92
<b>UA 4077</b>	12.00	20.00	2.50	2.50				0.317	99
<b>UA 1383</b>	12.50	9.00	1.30	1.30				0.093	58
<b>UA 1384</b>	12.50	13.00	1.30	1.20				0.120	74
<b>UA 1609</b>	14.50	14.50	1.35	1.35				0.149	85
<b>UA 2803</b>	15.10	18.10	1.80	1.80	0.90		F	0.230	97
<b>UA 1616</b>	16.00	8.00	1.60	1.60				0.124	61
<b>UA 1132</b>	16.00	11.00	1.60	1.60				0.151	72
<b>UA 3614</b>	16.20	16.20	1.60	1.60				0.196	94
<b>UA 1137</b>	17.00	12.00	3.00	3.00				0.284	76
<b>UA 1560</b>	17.46	31.75	2.54	2.54				0.520	157
<b>UA 3228</b>	18.00	22.00	2.00	2.00	1.00			0.312	119
<b>UA 1568</b>	19.05	19.05	2.50	2.50				0.353	109
<b>AUS 6733</b>	20.00	16.00	1.60	1.60				0.210	100
<b>UA 7400</b>	20.00	18.20	1.50	1.50				0.216	109
<b>AUS 8006</b>	20.00	20.00	1.60	1.60				0.245	116
<b>UA 1617</b>	20.00	20.00	3.00	3.00				0.439	114
<b>UA 1567</b>	22.00	12.00	1.50	1.50				0.174	89
<b>UA 1138</b>	22.00	22.00	3.00	3.00				0.487	126
<b>UA 1561</b>	22.23	12.70	1.588	1.588				0.190	92
<b>UA 1806</b>	24.00	13.00	1.20	1.20	1.70	0.50		0.152	96
<b>UA 3482</b>	25.00	12.00	3.00	3.00				0.348	92
<b>UA 2947</b>	25.00	20.00	1.60	1.60				0.268	126
<b>UA 1139</b>	25.00	22.00	3.00	3.00				0.512	132
<b>UA 1573</b>	25.00	25.00	1.40	1.40				0.273	148
<b>UA 1133</b>	25.00	25.00	1.60	1.60				0.310	146
<b>UA 1140</b>	25.00	25.00	3.00	3.00				0.561	144
<b>UA 5214</b>	25.00	27.00	8.00	6.00	0.50		0.50	1.155	141
<b>AUS 8943</b>	25.00	40.00	3.00	3.00				0.801	203
<b>UA 3227</b>	25.00	50.00	2.00	2.00				0.653	246
<b>UA 1654</b>	25.00	50.00	3.00	3.00				0.967	244
<b>UA 2959</b>	29.80	50.00	2.20	2.20	0.50	0.50	0.50	0.747	254
<b>UA 5756</b>	30.00	15.00	2.00	2.00				0.302	115
<b>UA 1141</b>	30.00	25.00	3.00	3.00				0.601	154
<b>UA 3226</b>	30.00	50.00	2.00	2.00				0.680	256
<b>UA 2244</b>	32.00	20.00	3.00	3.00				0.534	137
<b>AUS 5907</b>	32.00	25.00	3.00	3.00				0.615	157
<b>UA 5540</b>	32.00	30.00	3.00	1.50				0.478	178
<b>UA 1142</b>	40.00	12.00	3.00	3.00				0.471	122
<b>UA 3615</b>	40.00	16.50	1.50	1.50				0.265	143
<b>UA 1143</b>	40.00	20.00	3.00	3.00				0.601	154



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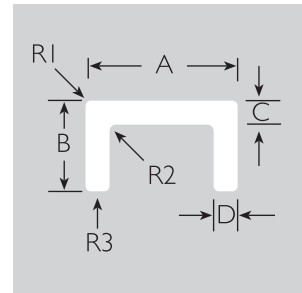
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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

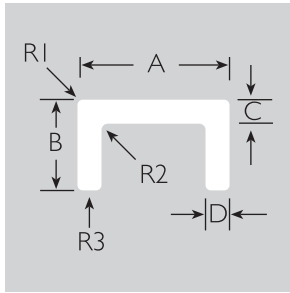
DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>UA 1655</b>	40.00	25.00	3.00	3.00				0.680	174
<b>AUS 8944</b>	40.00	40.00	3.00	3.00				0.923	233
<b>AUS 8117</b>	40.00	100.00	6.00	6.00	1.00	6.00	1.00	3.732	461
<b>AUS 8223</b>	41.00	26.00	1.50	1.50				0.364	183
<b>AUS 6907</b>	43.20	25.40	1.60	1.60			F	0.391	184
<b>UA 1144</b>	45.00	25.00	3.00	3.00				0.723	184
<b>UA 1043</b>	47.00	17.00	1.50	1.40			F	0.307	158
<b>UA 1145</b>	50.00	25.00	3.00	3.00				0.764	194
<b>UA 3061</b>	50.00	25.00	6.00	6.00				1.425	188
<b>AUS 6494</b>	50.00	50.00	3.00	3.00	0.50	0.50	0.50	1.166	293
<b>UA 1562</b>	50.80	34.92	3.175	3.175				0.980	235
<b>AUS 6621</b>	53.00	25.00	1.50	1.50	0.50	0.50	0.50	0.404	202
<b>UA 6878</b>	55.00	25.00	1.45	1.45				0.399	207
<b>UA 3839</b>	55.00	25.00	3.00	2.00			F	0.680	203
<b>UA 1148</b>	57.00	30.00	4.00	4.00				1.181	226
<b>UA 6929</b>	60.00	25.00	3.00	3.00				0.842	213
<b>UA 1563</b>	63.50	31.75	4.763	4.763				1.510	244
<b>UA 2169</b>	70.00	30.00	2.50	2.50		1.00		0.848	254
<b>UA 1671</b>	75.00	25.00	3.00	3.00				0.964	244
<b>UA 1862</b>	75.00	40.00	3.00	3.00				1.207	304
<b>UA 1147</b>	75.00	40.00	4.50	4.50				1.774	301
<b>UA 5251</b>	75.00	40.00	6.00	6.00	0.50	0.50	0.50	2.316	297
<b>UA 1149</b>	75.00	40.00	6.00	8.00				2.693	298
<b>UA 1565</b>	75.00	50.00	4.50	4.50				2.017	341
<b>UA 1656</b>	75.00	50.00	6.00	6.00				2.650	338
<b>UA 1564</b>	76.20	19.05	3.18	3.18				0.930	222
<b>UA 5303</b>	76.20	38.10	6.35	7.92		7.62		2.731	285
<b>UA 2948</b>	80.00	25.00	3.00	3.00				1.008	254
<b>AUS 5908</b>	80.00	40.00	3.00	3.00				1.247	313
<b>UA 3506</b>	80.00	40.00	4.00	4.00				1.641	312
<b>UA 3206</b>	87.60	45.00	4.50	4.50				2.048	346
<b>UA 1150</b>	90.00	40.00	6.00	8.00				2.937	328
<b>UA 7409</b>	99.00	25.00	2.00	2.00	0.50	0.50	0.50	0.782	292
<b>UA 1135</b>	100.00	25.00	3.00	3.00				1.170	294
<b>UA 7171</b>	100.00	38.00	3.00	3.00				1.376	345
<b>UA 1136</b>	100.00	40.00	3.00	3.00				1.414	354
<b>UA 3130</b>	100.00	50.00	3.00	3.00				1.571	394
<b>UA 1146</b>	100.00	50.00	4.50	4.50				2.320	391
<b>UA 1566</b>	100.00	50.00	6.00	6.00				3.056	388
<b>UA 1652</b>	100.00	50.00	6.00	8.00				3.534	388
<b>UA 2464</b>	100.00	50.00	6.00	8.00	8.00	6.00		3.488	376
<b>UA 5723</b>	101.60	50.80	6.35	7.90	0.50	0.50	0.50	3.638	392
<b>AUS 8596</b>	101.60	50.80	6.35	7.90	0.50	9.00	0.50	3.731	385
<b>AUS 5901</b>	102.00	100.00	5.00	5.00		3.00		3.952	591



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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
AUS 8704	103.50	40.00	3.00	3.00	1.00		1.00	1.434	359
UA 7433	111.00	27.00	2.00	2.00				0.869	325
AUS 6458	117.00	25.40	2.50	1.50		1.25	F	0.976	328
UA 2804	120.00	65.00	12.00	12.00	0.50	0.50	0.50	7.349	475
UA 5302	125.00	50.00	4.00	8.00	2.00	2.00	2.00	3.328	436
UA 5058	125.00	50.00	6.00	8.00	0.50	0.50	0.50	3.925	437
AUS 8289	127.00	63.50	6.35	9.53		10.67		5.250	486
AUS 6665	132.00	91.00	10.00	10.00	10.00	10.00	BEV	7.916	588
UA 5187	140.00	55.00	6.00	8.00	0.50	5.00	0.50	4.413	483
UA 7894	142.00	75.00	6.00	6.00	0.50	0.50	0.50	4.535	571
UA 1653	150.00	75.00	6.00	8.00				5.410	588
UA 5099	160.00	60.00	6.00	9.00	0.50	3.00	0.50	5.226	545
AUS 6666	180.00	102.00	10.00	10.00	10.00	10.00	BEV	9.806	728

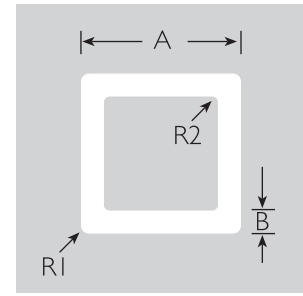


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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1206	12.00	1.60						0.180	48
UA 2095	12.60	1.50						0.181	50
UA 1662	16.00	1.50						0.235	64
AUS 8955	16.00	1.50			2.00	0.50		0.226	61
UA 1371	19.00	1.50						0.283	76
UA 1869	19.00	1.50			2.00	0.50		0.275	73
AUS 8970	19.00	1.60			2.40	0.80		0.289	72
UA 5286	19.00	1.80			1.50			0.329	74
UA 1810	19.09	1.20						0.233	76
AUS 4090	20.00	1.20			3.00	1.60		0.230	75
UA 1207	20.00	1.60			1.00			0.317	78
AUS 5905	20.00	3.00						0.550	80
UA 5861	20.00	3.00			3.00	3.00		0.551	75
UA 1050	25.00	1.40						0.358	100
UA 1650	25.00	1.40			1.60	1.00		0.355	98
UA 4091	25.00	1.40			3.00	1.60		0.342	95
UA 1765	25.00	1.60			1.00			0.402	99
UA 1210	25.00	1.80						0.452	100
UA 1912	25.00	1.80			2.40			0.438	96
UA 5906	25.00	2.00						0.496	100
AUS 6486	25.00	2.00			1.60	1.60		0.497	98
UA 2170	25.00	3.00						0.713	100
UA 4661	25.00	3.00			3.00	3.00		0.713	95
UA 1546	25.00	4.50						0.996	100
UA 2467	25.00	5.00			2.50			1.066	96
UA 1998	25.40	0.90			0.50			0.238	101
UA 1642	25.40	1.20						0.313	102
AUS 8881	25.40	1.20			2.80	1.60		0.301	97
UA 1205	30.00	1.60						0.493	120
UA 2094	31.55	2.40						0.765	126
UA 5815	32.00	1.80			3.80	2.00		0.563	122
UA 2006	32.00	2.00						0.648	128
AUS 5722	32.00	3.00			0.50	0.50		0.940	128
UA 5904	32.00	3.00			3.00			0.919	123
UA 2971	32.00	3.60						1.108	128
AUS 4089	35.00	1.40			3.00	1.60		0.493	135
UA 4078	35.00	2.00						0.713	140
UA 2487	35.00	4.50			0.50	0.50		1.482	140
UA 7170	38.00	1.60			2.00			0.620	149
AUS 6459	40.00	1.60						0.663	160
UA 1764	40.00	1.80			1.00			0.743	159
UA 1211	40.00	2.00						0.821	155
UA 1212	40.00	2.00			2.40			0.807	156
UA 6578	40.00	3.00			0.50	0.50		1.199	160
UA 4062	40.00	3.00			3.00			1.178	155

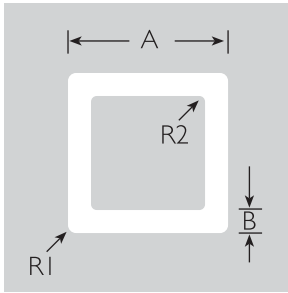


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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>UA 4662</b>	40.00	3.00			3.00	2.00		1.187	155
<b>UA 2808</b>	40.00	4.00						1.561	160
<b>UA 6249</b>	40.00	4.00			3.00			1.534	155
<b>UA 2466</b>	40.00	5.00			2.50			1.876	156
<b>UA 1049</b>	45.00	2.00						0.929	180
<b>AUS 8007</b>	50.00	1.60						0.836	200
<b>UA 1208</b>	50.00	1.60			1.00			0.834	199
<b>AUS 6462</b>	50.00	1.60			6.30	4.70		0.796	190
<b>UA 2949</b>	50.00	2.00						1.037	200
<b>AUS 8480</b>	50.00	2.00			3.00	1.00		1.018	195
<b>UA 3298</b>	50.00	2.00			4.00	2.00		1.009	194
<b>UA 5461</b>	50.00	2.00			6.00	4.00		0.990	190
<b>UA 1214</b>	50.00	3.00						1.523	200
<b>UA 4663</b>	50.00	3.00			3.00	3.00		1.523	195
<b>UA 3178</b>	50.00	3.00			4.00	1.00		1.488	194
<b>AUS 8457</b>	50.00	3.00			5.00	2.00		1.474	192
<b>UA 2809</b>	50.00	4.00						1.994	200
<b>AUS 8814</b>	50.00	5.00			3.00			2.410	195
<b>UA 3068</b>	50.00	5.00			4.00	4.00		2.439	194
<b>UA 5299</b>	50.80	3.20			3.00	3.00		1.645	199
<b>UA 3346</b>	60.00	3.00						1.847	240
<b>UA 4076</b>	63.20	6.30			0.50	0.50		3.871	252
<b>UA 4664</b>	65.00	3.00			5.00	5.00		2.009	252
<b>UA 1215</b>	75.00	3.00						2.341	300
<b>UA 4832</b>	75.00	3.00			4.45	6.30		2.379	293
<b>UA 7416</b>	75.00	3.50			4.50	3.50		2.684	293
<b>UA 1547</b>	75.00	4.50						3.696	300
<b>UA 6933</b>	75.00	5.00			6.00	1.00		3.699	290
<b>UA 4075</b>	76.00	6.30			0.50	0.50		4.742	304
<b>AUS 8030</b>	76.20	6.35			15.90	9.55		4.416	278
<b>AUS 8741</b>	90.00	3.00			3.00	1.00		2.800	355
<b>AUS 4483</b>	100.00	3.00			10.00	7.00		3.025	383
<b>UA 1213</b>	100.00	3.00						3.143	400
<b>UA 3350</b>	100.00	3.50			5.00	1.50		3.595	392
<b>UA 4627</b>	100.00	4.00			4.60			4.099	393
<b>UA 3825</b>	100.00	4.50						4.641	400
<b>UA 4302</b>	100.00	5.00			0.50	0.50		5.130	400
<b>UA 5721</b>	100.00	6.00			12.00	6.00		5.841	380
<b>UA 7525</b>	150.00	3.00			3.00	1.60		4.748	595



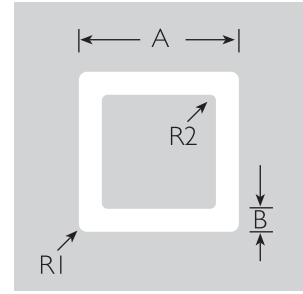
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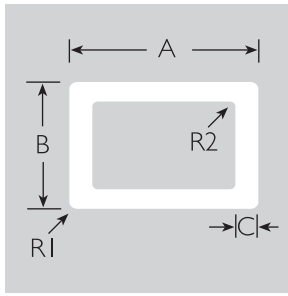
**DIE No.      A      B      C      D    R1    R2    R3    kg/m    P**



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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>UA 7454</b>	30.00	10.00	1.60					0.318	80
<b>UA 2696</b>	30.00	20.00	1.40	V GROOVED	2.00	1.00		0.349	98
<b>AUS 4088</b>	35.00	25.00	1.40		3.00	1.60		0.418	115
<b>AUS 6626</b>	38.00	25.00	1.50		3.00	1.50		0.470	121
<b>UA 4981</b>	38.00	25.00	1.60		1.00			0.514	125
<b>UA 6148</b>	38.00	25.00	1.80		2.50	0.70		0.564	122
<b>UA 3619</b>	38.00	25.00	2.00		1.00			0.635	125
<b>UA 5051</b>	40.00	14.90	3.00		2.50	0.50		0.778	106
<b>UA 1988</b>	40.00	20.00	1.60					0.491	120
<b>UA 5489</b>	40.00	20.00	1.60		1.80			0.483	117
<b>AUS 8905</b>	40.00	20.00	2.00		2.00	0.50		0.596	117
<b>UA 2811</b>	40.00	20.00	3.00					0.875	120
<b>UA 3361</b>	40.00	25.00	1.60					0.534	130
<b>UA 1979</b>	40.00	25.00	2.00					0.659	130
<b>AUS 5718</b>	40.00	25.00	2.50		0.50	0.50		0.810	130
<b>UA 2944</b>	40.00	25.00	3.00					0.959	130
<b>UA 2806</b>	40.00	30.00	2.50					0.877	140
<b>UA 6451</b>	44.00	22.00	3.00		5.00	2.00		0.923	124
<b>UA 5361</b>	45.00	30.00	2.00		3.00	1.00		0.748	145
<b>UA 4806</b>	46.50	25.40	1.60		1.00	0.80		0.593	143
<b>UA 4772</b>	50.00	25.00	1.60		1.60			0.614	148
<b>UA 1197</b>	50.00	25.00	2.50					0.948	150
<b>UA 5909</b>	50.00	25.00	2.50		3.00	0.50		0.925	145
<b>UA 2945</b>	50.00	25.00	3.00					1.122	150
<b>UA 4635</b>	50.00	25.00	3.00		4.00	1.00		1.083	144
<b>UA 3067</b>	50.00	25.00	5.00		4.00	4.00		1.762	144
<b>UA 2654</b>	50.00	30.00	2.00					0.824	160
<b>UA 2461</b>	50.00	38.00	2.00		3.00	1.00		0.889	171
<b>UA 2767</b>	50.00	40.00	2.00		6.00	6.40		0.940	170
<b>UA 1200</b>	50.00	40.00	3.00					1.361	180
<b>UA 4721</b>	50.00	40.00	3.00		10.00	7.00		1.243	163
<b>UA 2810</b>	50.00	40.00	4.00					1.771	180
<b>AUS 10004</b>	51.20	11.50	1.50		2.00			0.474	122
<b>UA 3066</b>	60.00	25.00	5.00		4.00	4.00		2.033	164
<b>UA 3069</b>	60.00	35.00	5.00		4.00	4.00		2.295	184
<b>UA 3344</b>	60.00	40.00	3.00					1.523	200
<b>AUS 10085</b>	62.00	50.00	1.60		0.50			0.940	224
<b>AUS 6506</b>	65.00	16.00	1.20		3.00	1.80		0.496	157
<b>AUS 6507</b>	65.00	16.00	1.40		3.00	1.60		0.576	157
<b>UA 3786</b>	65.00	30.00	2.50					1.215	190
<b>UA 5169</b>	65.00	50.00	2.50		4.00	1.50		1.453	224
<b>UA 2486</b>	65.00	50.00	3.00		0.50	1.00		1.770	230
<b>AUS 8049</b>	70.00	30.00	3.00		1.40			1.519	198
<b>UA 4849</b>	75.00	25.00	1.60					0.836	200
<b>UA 7117</b>	75.00	25.00	2.20		1.00			1.133	199

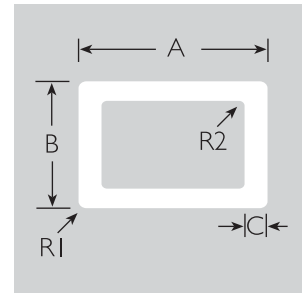


DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

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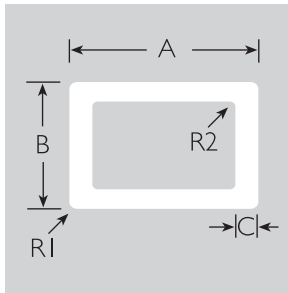
DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1537	75.00	40.00	2.00					1.199	230
UA 7714	75.00	40.00	3.00		3.00	0.50		1.746	225
UA 1204	75.00	40.00	6.00					3.350	230
UA 1536	75.00	45.00	2.00					1.253	240
UA 5362	75.00	45.00	3.00		6.00	0.50		1.784	230
UA 5216	75.00	50.00	2.50		4.00	1.50		1.588	244
UA 2946	75.00	50.00	3.00					1.935	250
UA 4833	75.00	50.00	3.00		4.45	6.30		1.974	243
UA 2106	75.00	50.00	4.00		2.00	0.80		2.529	247
UA 3045	75.00	50.00	6.00		0.50			3.661	250
AUS 8845	75.00	50.00	6.00		4.00	4.00		3.661	244
UA 7169	76.00	38.00	3.00		0.50	0.50		1.750	228
UA 7168	76.00	38.00	6.00		2.00			3.296	225
AUS 5860	76.20	25.40	2.40		0.50	0.50		1.255	203
UA 7893	80.00	30.00	4.00		0.50	0.50		2.203	220
AUS 5719	80.00	40.00	3.00		0.50	0.50		1.847	240
UA 5242	80.00	40.00	3.00		2.50	2.50		1.847	236
UA 3585	80.00	40.00	4.00					2.419	240
AUS 5304	80.00	40.00	4.00		6.00	4.70		2.387	230
UA 2975	80.00	40.00	6.00					3.512	240
AUS 5724	80.00	50.00	3.00		0.50	0.50		2.009	260
UA 6837	80.00	50.00	3.00		0.80			2.007	259
UA 3299	80.00	50.00	3.00		4.00	1.00		1.974	254
UA 3586	80.00	60.00	4.00					2.851	280
AUS 5549	96.00	43.00	3.00		21.50			1.875	242
UA 1198	100.00	25.00	2.00					1.312	250
UA 7672	100.00	25.00	2.00		1.00			1.304	249
UA 5720	100.00	25.00	2.50		0.50	0.50		1.620	250
UA 1201	100.00	45.00	3.00					2.260	290
UA 2357	100.00	45.00	4.00					2.959	290
UA 6465	100.00	50.00	1.60					1.268	300
UA 3546	100.00	50.00	2.00					1.577	300
UA 1202	100.00	50.00	3.00					2.333	300
UA 4477	100.00	50.00	3.00		4.60	1.60		2.290	293
UA 4743	100.00	50.00	3.50		6.00	2.50		2.634	290
UA 2807	100.00	50.00	4.00					3.067	300
UA 4631	100.00	50.00	4.00		6.00	2.00		2.993	290
UA 1923	100.00	50.00	6.00		4.60			4.422	293
UA 5029	100.00	50.00	8.00		6.00	2.00		5.715	290
UA 3300	100.00	75.00	2.50		4.00	1.50		2.262	344
UA 1203	100.00	75.00	3.00					2.748	350
UA 3419	120.00	60.00	3.00					2.819	360
AUS 5348	122.00	72.00	6.00		16.00	10.00		5.535	361
UA 1199	125.00	50.00	3.00					2.738	350
UA 4628	125.00	50.00	4.00		6.00	2.00		3.533	340



R = Radiused corner

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R = Radiused corner

DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>UA 4629</b>	125.00	50.00	6.00		8.00	2.00		5.142	337
<b>AUS 6444</b>	125.00	65.00	4.20		12.00	7.80		3.926	360
<b>AUS 10561</b>	150.00	50.00	2.00		3.00	1.00		2.098	395
<b>AUS 4707</b>	150.00	50.00	3.00					3.143	400
<b>AUS 8443</b>	150.00	50.00	3.00		1.00	2.00		3.150	399
<b>UA 4316</b>	150.00	50.00	3.00		5.00	2.00		3.094	392
<b>UA 2030</b>	150.00	50.00	4.00					4.147	400
<b>UA 3660</b>	150.00	50.00	5.00		10.00	5.00		4.956	383
<b>UA 4630</b>	150.00	50.00	6.00		8.00	2.00		5.952	387
<b>AUS 6282</b>	150.00	80.00	5.00		8.00	3.00		5.813	447
<b>UA 4977</b>	152.00	76.00	6.40		6.00	3.60		7.384	446
<b>UA 5453</b>	152.40	76.20	4.00		4.50	0.50		4.719	450
<b>AUS 10028</b>	170.00	90.00	5.00		10.00	5.00		6.576	503
<b>AUS 6464</b>	200.00	50.00	3.00					3.952	500
<b>UA 6250</b>	200.00	50.00	3.50		1.50			4.587	498
<b>UA 7524</b>	250.00	50.00	3.00					4.762	600



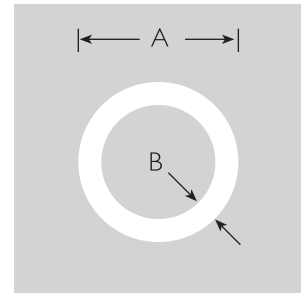
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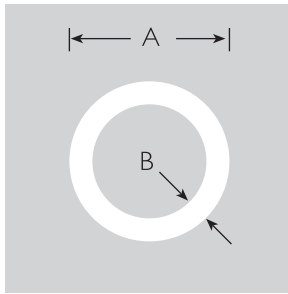
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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1924	6.35	1.42						0.059	20
UA 1542	7.94	1.42						0.079	25
UA 1966	9.53	0.90						0.066	30
UA 1737	9.53	1.20						0.085	30
UA 1229	9.53	1.45						0.099	30
UA 1927	9.53	1.60						0.108	30
UA 2028	12.70	0.90						0.090	40
UA 3464	12.70	1.20						0.115	40
UA 1230	12.70	1.45						0.138	40
UA 4153	12.70	2.20						0.196	40
UA 5105	15.50	1.42						0.170	49
UA 2815	15.85	1.50						0.183	50
UA 3141	15.88	1.22						0.152	50
UA 1231	15.90	1.45						0.178	50
UA 2001	16.00	1.20						0.151	51
UA 2722	16.00	1.60						0.196	51
UA 1657	16.00	2.50						0.287	51
UA 1916	19.05	1.22						0.184	60
AUS 8163	19.05	1.60						0.237	60
UA 1928	19.05	2.00						0.289	60
UA 1232	19.10	1.45						0.218	60
UA 1225	20.00	1.20						0.192	63
UA 1968	20.00	1.60						0.251	63
UA 7803	20.00	2.00						0.305	63
UA 4121	20.00	3.00						0.433	63
UA 3538	21.00	3.50						0.520	66
UA 2740	21.00	4.00						0.579	66
UA 1226	22.00	1.20						0.213	70
UA 1233	22.20	1.45						0.256	70
UA 6432	22.50	2.00						0.348	71
UA 2783	24.00	1.50						0.287	76
UA 1227	25.00	1.20						0.243	79
UA 1969	25.00	1.60						0.318	79
UA 1245	25.00	2.00						0.392	79
UA 1248	25.00	3.00						0.562	79
UA 2027	25.40	1.20						0.246	80
UA 1234	25.40	1.45						0.296	80
UA 3942	25.40	2.00						0.397	80
UA 5840	25.40	3.00						0.570	80
UA 4870	26.50	1.40						0.298	84
UA 1235	28.58	1.45						0.335	90
UA 2220	29.00	1.70						0.395	92
UA 1243	30.00	1.60						0.387	95
UA 1249	30.00	3.00						0.690	95
UA 3453	31.00	3.00						0.713	98



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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 2465	31.00	5.00						1.103	98
UA 1236	31.75	1.45						0.374	100
UA 5642	32.00	1.20						0.313	101
UA 2942	32.00	1.60						0.414	101
UA 2268	32.00	2.00						0.509	101
UA 2786	32.00	3.00						0.741	101
UA 4174	32.20	3.20						0.787	102
UA 3892	34.00	4.50						1.126	107
UA 1237	34.90	1.45						0.413	110
UA 2379	37.00	3.00						0.865	117
UA 2739	37.00	5.00						1.362	117
UA 2758	38.00	3.00						0.894	120
UA 3519	38.00	6.00						1.629	120
UA 1238	38.10	1.45						0.452	120
UA 5438	38.10	2.00						0.612	120
UA 2210	38.10	3.25						0.964	120
UA 4997	38.10	4.80						1.356	120
AUS 8005	40.00	1.60						0.521	126
UA 6157	40.00	2.00						0.645	126
UA 1250	40.00	3.00						0.945	126
UA 1239	41.30	1.45						0.492	130
UA 1240	44.45	1.45						0.531	140
UA 5265	44.45	3.00						1.055	140
AUS 8880	44.45	3.25						1.136	140
UA 1619	45.00	3.00						1.069	142
UA 2898	45.00	14.50						3.765	142
AUS 8476	46.00	3.50						1.262	145
UA 1241	47.60	1.45						0.570	150
UA 4425	48.00	6.50						2.288	151
UA 1256	48.40	4.50						1.676	153
UA 3019	48.60	2.30						0.905	155
UA 4138	48.60	3.35						1.285	154
UA 4122	48.60	3.45						1.321	153
UA 2950	50.00	1.60						0.659	158
UA 1246	50.00	1.925						0.785	158
UA 1251	50.00	3.00						1.196	158
UA 5937	50.00	4.00						1.561	158
UA 2760	50.00	6.00						2.239	158
AUS 8799	50.00	8.00						2.850	158
UA 3379	50.50	3.00						1.209	159
UA 1242	50.80	1.45						0.609	160
UA 1768	50.80	1.63						0.680	160
UA 4578	50.80	1.68						0.700	160
UA 6920	50.80	2.00						0.828	160
UA 4701	50.80	2.20						0.907	160



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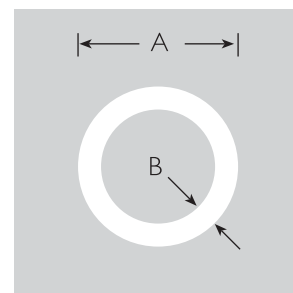
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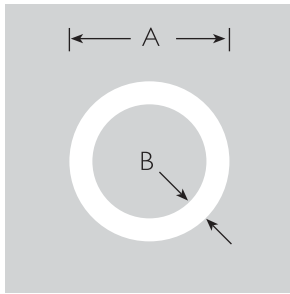


DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1769	50.80	2.64						1.078	160
UA 4544	52.00	14.00						4.513	164
UA 5171	57.20	2.00						0.936	180
UA 4579	57.64	1.85						0.875	182
AUS 3569	60.00	2.00						0.984	189
AUS 8909	60.00	3.00						1.450	189
UA 5939	60.00	4.00						1.900	189
AUS 10474	60.00	4.50						2.118	189
AUS 5940	60.00	5.00						2.333	189
UA 4580	60.94	1.85						0.927	192
UA 4478	61.50	13.75						5.569	300
UA 5172	63.50	2.00						1.043	200
AUS 5199	63.50	3.00						1.540	200
AUS 6523	63.50	3.25						1.661	200
UA 2666	63.50	4.50						2.260	200
UA 1538	63.50	6.35						3.078	200
UA 5180	63.50	10.00						4.538	200
UA 1244	65.00	1.60						0.864	205
UA 1252	65.00	3.00						1.584	205
UA 4708	65.00	3.50						1.826	205
UA 1073	65.00	5.00						2.554	205
UA 1228	75.00	1.20						0.754	236
UA 1658	75.00	1.60						1.000	236
UA 1253	75.00	3.00						1.839	236
UA 2665	75.00	4.50						2.701	236
UA 4826	75.00	6.00						3.512	236
AUS 5246	75.60	1.70						1.066	238
AUS 5200	75.80	2.90						1.793	239
UA 5170	76.20	2.00						1.259	240
AUS 5989	76.20	2.55						1.593	240
AUS 8896	76.20	3.50						2.158	240
AUS 6522	76.20	4.75						2.879	240
UA 4727	76.20	8.10						4.679	240
UA 2772	80.00	2.00						1.328	252
AUS 6492	80.00	3.00						1.959	252
UA 5165	80.00	8.00						4.886	252
UA 6292	80.00	16.00						8.686	252
AUS 8465	80.30	2.30						1.522	253
UA 1680	86.00	3.00						2.112	271
UA 5818	86.20	4.50						3.119	271
UA 1254	90.00	3.00						2.222	283
UA 1540	100.00	1.60						1.340	315
UA 3216	100.00	2.00						1.663	315
UA 1247	100.00	3.00						2.477	315
UA 1255	100.00	6.00						4.784	315

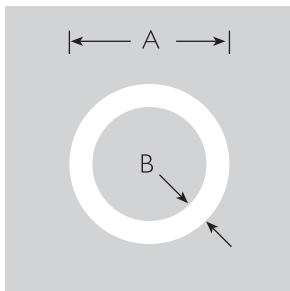


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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>UA 5064</b>	100.00	12.00						8.957	315
<b>UA 2245</b>	100.00	24.50						15.362	315
<b>UA 3723</b>	101.60	1.20						1.022	320
<b>UA 6709</b>	101.60	2.00						1.690	320
<b>AUS 6524</b>	101.60	6.35						5.130	320
<b>UA 4780</b>	114.30	6.35						5.814	360
<b>UA 1659</b>	125.00	3.00						3.116	393
<b>UA 3724</b>	127.00	1.60						1.702	399
<b>AUS 5268</b>	127.00	4.00						4.173	399
<b>UA 5444</b>	127.00	8.00						8.075	399
<b>UA 5945</b>	127.00	19.05						17.443	399
<b>AUS 8031</b>	127.30	4.10						4.183	400
<b>UA 3722</b>	150.00	3.20						3.985	472
<b>UA 6084</b>	152.40	5.00						6.251	479
<b>UA 7223</b>	152.40	15.87						18.384	479
<b>UA 4789</b>	162.00	4.00						5.361	509
<b>UA 7102</b>	177.80	6.35						9.235	559
<b>UA 7103</b>	177.80	25.40						32.835	559
<b>UA 7104</b>	203.20	3.18						5.395	639
<b>UA 3822</b>	203.20	6.35						10.603	639
<b>UA 7787</b>	250.00	6.00						12.418	786



## DRAWN ROUND TUBE

<b>UA 7320</b>	9.53	1.42						0.098	30
<b>UA 7330</b>	12.70	1.42						0.136	40
<b>UA 7340</b>	15.88	1.42						0.174	50
<b>UA 7350</b>	19.05	1.42						0.212	60
<b>UA 7360</b>	22.23	1.42						0.251	70
<b>UA 7370</b>	25.40	1.42						0.289	80
<b>UA 7380</b>	28.58	1.42						0.327	90
<b>UA 7390</b>	31.75	1.42						0.365	100
<b>UA 7410</b>	34.93	1.42						0.404	110
<b>UA 7420</b>	38.10	1.42						0.442	120
<b>UA 7430</b>	41.28	1.42						0.480	130
<b>UA 7435</b>	44.45	1.42						0.518	140
<b>UA 7440</b>	47.63	1.42						0.557	150
<b>UA 7450</b>	50.80	1.42						0.595	160



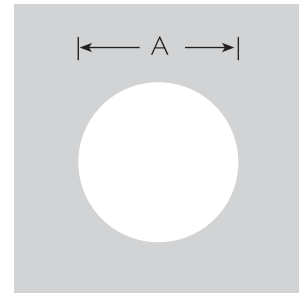
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

OAD = OVERALL DIMENSIONS

P = EXT PERIPHERY

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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>SOLID ROUND</b>									
UA 1271	4.76							0.048	15
UA 1270	6.35							0.086	20
UA 1269	7.94							0.134	25
UA 1258	9.50							0.192	30
AUS 10614	12.00							0.305	38
UA 1259	12.70							0.343	40
UA 3321	14.50							0.446	46
UA 1260	15.88							0.535	50
UA 3939	18.00							0.687	57
UA 1261	19.05							0.772	60
UA 2038	20.00							0.848	63
AUS 8867	25.00							1.325	79
UA 1262	25.40							1.373	80
UA 6759	28.00							1.663	88
AUS 10467	28.58							1.732	90
UA 1263	31.75							2.146	100
UA 1264	38.10							3.090	120
UA 2995	44.40							4.196	140
AUS 8474	50.00							5.301	158
UA 1265	50.80							5.493	160
UA 1266	63.50							8.582	200
UA 1267	76.20							12.359	240
UA 1868	88.90							16.759	280
UA 1257	100.00							21.284	315
UA 1268	101.60							21.971	320
UA 7173	127.00							34.203	399
UA 7174	152.40							49.252	479
UA 7175	177.80							67.037	559
UA 7176	203.20							87.559	639
UA 7339	228.60							110.817	719



#### Weight of Billet

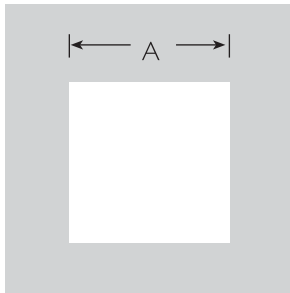
Billet, 178mm diameter  
1mm = 0.0666 Kg

Billet, 202mm diameter  
1mm = 0.0875 Kg

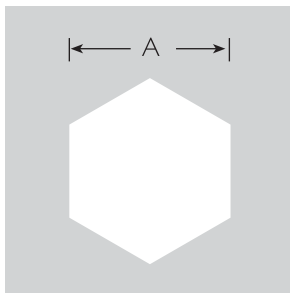
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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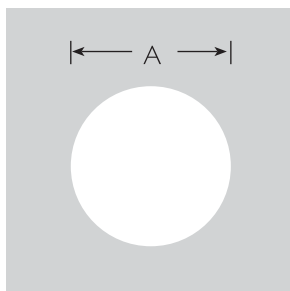
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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>SOLID SQUARE</b>									
UA 1279	6.35							0.109	25
UA 1272	9.50							0.244	38
UA 1273	12.70							0.437	51
UA 1274	19.05							0.983	76
UA 1275	25.40							1.748	102
UA 1276	31.75							2.732	127
UA 1277	38.10							3.934	152
UA 1278	50.80							6.993	203



<b>SOLID HEXAGON</b>									
UA 1607	11.11							0.290	39

**SOLID FREE MACHINING ROD**

DIAM.	A	FREE MACHINING SOLID ROD 2011-T3 to T6	kg/m
	8.70		0.160
	9.53		0.193
	12.70		0.342
	15.88		0.537
	19.05		0.770
	22.22		1.047
	25.40		1.368
	31.75		2.145
	38.10		3.090
	44.45		4.177
	50.80		5.473
	63.50		8.580
	76.20		12.315
	88.90		16.820
	101.60		21.900
	127.00		34.210
	152.40		49.260
	203.20		87.570
	228.60		111.230

Free Machining Rod  
In lengths up to 3600mm



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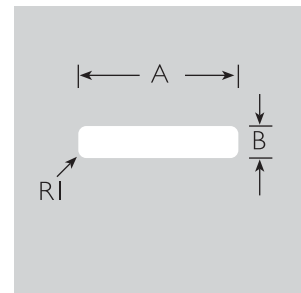
**OAD** = OVERALL DIMENSIONS

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MACHINING FLAT BAR 6061-T6511

DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 6934	50.80	19.05			0.40			2.613	139
UA 6935	50.80	25.40			0.40			3.483	152
UA 6936	63.50	31.75			0.40			5.443	190
UA 6937	76.20	38.10			0.40			7.838	228
UA 6939	76.20	50.80			0.40			10.451	254
UA 6943	76.20	63.50			0.40			13.064	279
UA 6938	101.60	38.10			0.40			10.451	279
UA 6941	101.60	50.80			0.40			13.935	305
UA 6944	101.60	76.20			0.40			20.903	355
UA 6945	114.30	76.20			0.40			23.516	381
UA 6946	127.00	76.20			0.40			26.129	406
UA 6948	127.00	101.60			0.40			34.838	457
UA 6942	152.40	50.80			0.40			20.903	406
UA 6947	152.40	76.20			0.40			31.354	457
UA 6949	152.40	101.60			0.40			41.806	508



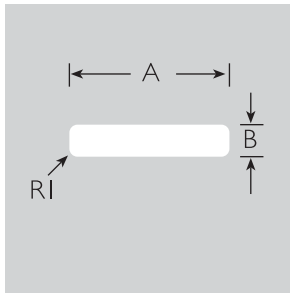
R = Radiused corner  
 Machining Flat Bar  
 In lengths up to 3658mm

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

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R = Radiused corner

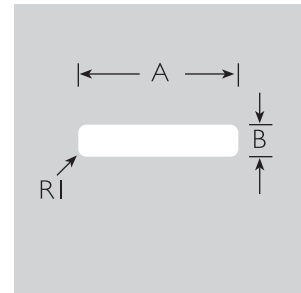
DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1165	10.00	2.30						0.062	25
UA 7106	11.70	2.20						0.069	28
UA 2029	12.00	1.60						0.052	27
UA 1170	12.00	3.00						0.097	30
UA 1921	12.00	3.00			F			0.092	28
UA 1179	12.00	4.50						0.146	33
UA 1551	12.00	6.00						0.195	36
UA 1171	16.00	3.00						0.130	38
UA 1004	19.00	4.50			F			0.220	44
UA 1508	19.05	2.64			1.32			0.132	42
UA 1151	20.00	1.60						0.087	43
UA 1172	20.00	3.00						0.162	46
UA 2626	20.00	4.00						0.217	48
UA 1180	20.00	4.50						0.244	49
UA 1188	20.00	6.00						0.324	52
UA 1152	25.00	1.60						0.108	53
UA 1173	25.00	3.00						0.203	56
AUS 8577	25.00	4.00						0.270	58
UA 1181	25.00	4.50						0.305	59
UA 3153	25.00	5.00						0.337	60
UA 1189	25.00	6.00						0.406	62
UA 1153	25.00	10.00						0.677	70
UA 5790	25.00	10.00			F			0.617	62
UA 1159	25.00	12.00						0.813	74
UA 2085	25.00	15.00			F			0.882	68
UA 1174	30.00	3.00						0.244	66
UA 2684	30.00	3.00			F			0.239	64
UA 1552	30.00	4.50						0.364	69
UA 1190	30.00	6.00						0.488	72
UA 2296	30.00	15.00			1.00			1.213	89
UA 1558	31.75	4.50						0.387	72
UA 2937	32.00	3.00						0.268	70
AUS 2939	32.00	6.00						0.520	76
UA 4225	36.00	6.00						0.583	84
UA 3154	38.00	4.50						0.461	85
UA 1175	40.00	3.00						0.325	86
AUS 6493	40.00	4.00			0.50			0.431	88
UA 1182	40.00	4.50						0.488	89
UA 1191	40.00	6.00						0.650	92
UA 1154	40.00	10.00						1.084	100
UA 1160	40.00	12.00						1.301	104
UA 1164	40.00	16.00						1.734	112
UA 1176	45.00	3.00						0.366	96
UA 1553	45.00	6.00						0.731	102
AUS 10421	50.00	2.00						0.270	104



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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1177	50.00	3.00						0.406	106
UA 1183	50.00	4.50						0.610	109
UA 2757	50.00	4.50			2.00			0.600	106
UA 5281	50.00	5.00			0.50			0.674	110
UA 1192	50.00	6.00						0.813	112
UA 3640	50.00	6.00				F		0.789	107
UA 2737	50.00	8.00						1.084	116
UA 1155	50.00	10.00						1.350	120
UA 1161	50.00	12.00						1.626	124
UA 6054	50.00	20.00						2.700	140
UA 1167	50.00	25.00						3.387	150
UA 4104	50.00	28.60						3.861	157
UA 1877	60.00	3.00				F		0.481	124
UA 2250	60.00	4.50				F		0.717	126
UA 2397	60.00	6.00						0.971	132
UA 3641	60.00	6.00				F		0.951	127
AUS 5859	60.00	10.00			0.50			1.619	140
UA 3515	60.00	10.00				F		1.562	132
UA 4712	60.00	12.00						1.944	144
AUS 8871	60.00	20.00				F		3.008	143
UA 4428	60.00	37.50			1.00			6.073	194
UA 6339	60.00	39.00			3.00	BEVEL		6.269	191
UA 1193	65.00	6.00						1.053	142
UA 3306	65.00	10.00						1.755	150
UA 1162	65.00	12.00						2.114	154
UA 2725	71.00	12.70						2.460	168
UA 2305	74.00	25.00						5.013	198
UA 1178	75.00	3.00						0.610	156
UA 1184	75.00	4.50						0.914	159
UA 1194	75.00	6.00						1.215	162
UA 1618	75.00	6.00			2.40			1.206	158
UA 1156	75.00	10.00						2.025	170
UA 1163	75.00	12.00						2.439	174
UA 4123	75.00	16.00						3.239	182
UA 1554	75.00	20.00						4.065	190
UA 1168	75.00	25.00						5.081	200
UA 6354	75.00	40.00			1.50			8.095	228
UA 5195	75.00	50.00			0.50			10.124	250
UA 1550	76.20	7.94						1.639	168
UA 2938	80.00	3.00						0.650	166
UA 2940	80.00	6.00						1.301	172
UA 1074	80.00	6.00				F		1.280	167
UA 5280	80.00	8.00			0.50			1.727	176
UA 7404	80.00	10.00						2.160	180
AUS 5717	80.00	10.00			0.50			2.159	180
UA 6167	80.00	12.00			0.50			2.591	184



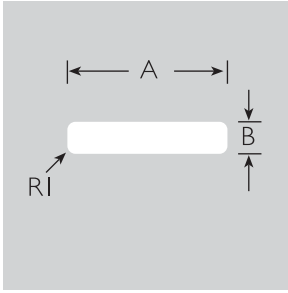
R = Radiused corner

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R = Radiused corner

DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>UA 7107</b>	80.00	15.00			0.50			3.239	190
<b>UA 6750</b>	80.00	16.00			2.00			3.447	189
<b>UA 6748</b>	80.00	20.00			2.00			4.311	197
<b>UA 6749</b>	80.00	25.00			2.00			5.391	207
<b>UA 2724</b>	95.00	19.10						4.917	228
<b>UA 2009</b>	100.00	2.50						0.675	205
<b>UA 1169</b>	100.00	3.00						0.810	206
<b>UA 3369</b>	100.00	4.00						1.079	208
<b>UA 1186</b>	100.00	6.00						1.620	212
<b>UA 6821</b>	100.00	8.00			0.50			2.159	216
<b>UA 1555</b>	100.00	10.00						2.710	220
<b>UA 1157</b>	100.00	12.00						3.252	224
<b>UA 6168</b>	100.00	15.00			0.50			4.049	230
<b>AUS 8196</b>	100.00	16.00						4.320	232
<b>UA 1166</b>	100.00	25.00						6.775	250
<b>UA 1185</b>	100.00	50.00						13.550	300
<b>UA 5462</b>	115.00	6.00						1.863	242
<b>UA 1187</b>	125.00	6.00						2.032	262
<b>UA 2733</b>	125.00	10.00						3.387	270
<b>UA 1556</b>	125.00	12.00						4.065	274
<b>UA 6169</b>	125.00	15.00			0.50			5.092	280
<b>UA 2249</b>	127.00	38.10						13.064	330
<b>UA 5282</b>	130.00	12.00			0.50			4.211	284
<b>AUS 5922</b>	136.00	5.00			F			1.822	278
<b>AUS 10048</b>	140.00	10.00			0.50			3.779	300
<b>UA 3479</b>	150.00	3.00						1.215	306
<b>UA 6668</b>	150.00	5.00			0.50			2.024	310
<b>UA 1557</b>	150.00	6.00						2.439	312
<b>UA 7134</b>	150.00	8.00			0.50			3.239	316
<b>UA 7133</b>	150.00	10.00			0.50			4.049	320
<b>UA 1158</b>	150.00	12.00						4.878	324
<b>UA 2941</b>	160.00	6.00						2.592	332
<b>UA 3408</b>	160.00	10.00			0.50			4.319	340
<b>AUS 8826</b>	160.00	12.00			0.50			5.183	344
<b>AUS 10231</b>	200.00	6.00			0.50			3.239	412
<b>UA 4430</b>	200.00	10.00						5.399	420

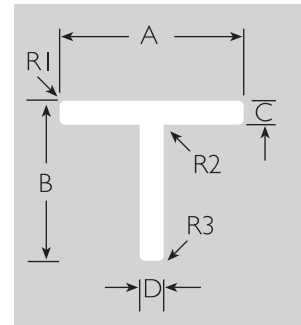


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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1216	20.00	20.00	1.60	1.60				0.167	80
UA 1217	20.00	20.00	3.00	3.00				0.301	80
UA 1543	22.22	12.70	3.17	3.17				0.272	70
UA 1987	25.00	25.00	1.60	1.60				0.210	100
UA 1218	25.00	25.00	3.00	3.00				0.382	100
UA 1967	25.00	38.00	1.20	1.20				0.201	126
UA 4224	28.00	50.00	4.00	4.00		3.00		0.809	153
UA 2830	30.00	22.00	2.00	2.00				0.271	104
UA 5278	35.00	50.00	3.00	3.00		5.00		0.692	165
UA 1544	38.10	19.05	1.59	1.59				0.238	115
AUS 8179	40.00	7.50	1.50	1.50				0.186	95
UA 1219	40.00	40.00	3.00	3.00				0.626	160
UA 1545	40.00	40.00	4.50	4.50				0.917	160
UA 3071	40.00	40.00	6.00	6.00				1.198	160
UA 3003	40.00	50.00	6.00	6.00	2.00	6.00	2.00	1.394	170
UA 1344	44.50	25.50	2.50	2.50	F		F	0.452	137
UA 4485	45.00	100.00	8.00	4.00		4.00		1.983	286
AUS 8927	50.00	7.50	1.60	1.60				0.241	115
UA 3059	50.00	50.00	2.00	2.00				0.529	200
UA 1958	50.00	50.00	3.00	3.00				0.788	199
UA 6260	50.00	50.00	4.00	4.00		4.00	0.50	1.054	196
UA 1220	50.00	50.00	6.00	6.00				1.528	200
UA 7069	50.00	60.00	5.10	5.00		3.00		1.432	215
UA 5277	50.00	60.00	6.00	4.00		5.00		1.421	215
UA 3004	50.00	75.00	6.00	6.00	2.00	6.00	2.00	1.956	240
UA 6723	50.00	75.00	8.00	8.00	1.00	5.00	1.00	2.553	244
UA 4517	50.00	100.00	6.00	6.00				2.332	299
UA 6173	50.00	130.00	6.00	6.00	1.00	4.00	1.00	2.834	354
UA 3005	50.00	150.00	8.00	8.00	2.00	6.00	2.00	4.175	390
UA 4998	60.00	60.00	6.00	6.00				1.846	239
UA 2787	60.00	60.00	6.00	6.00		5.00		1.882	235
UA 6722	60.00	60.00	8.00	8.00	1.00	5.00	1.00	2.445	234
UA 6965	60.00	100.00	6.00	6.00	0.50	3.00	0.50	2.504	317
UA 5238	65.00	100.00	8.00	8.00	0.50	4.00	0.50	3.409	326
UA 2437	70.00	40.00	4.00	4.00	3.50	1.00	1.00	1.135	215
UA 1714	75.00	75.00	4.50	4.50		2.00		1.772	299
UA 5844	80.00	139.00	8.00	5.00		6.00		3.537	432
UA 4234	100.00	100.00	4.76	4.76				2.509	399
AUS 5843	100.00	180.00	10.00	6.00		10.00		5.569	551
AUS 10300	60.00	70.00	10.00	10.00	0.50	6.00	0.50	3.281	254



R = Radiused corner

**Please Note:**

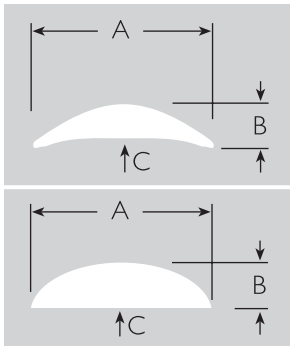
**REFER TO SECTION 17-I  
FOR ADDITIONAL SPECIALISED TEES**

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

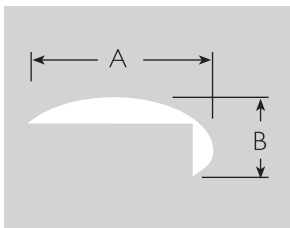
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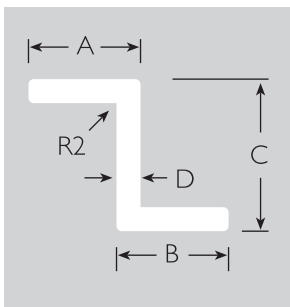




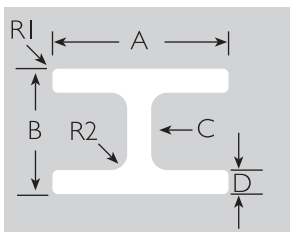
DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>HALF ROUND</b>									
<b>UA 1443</b>	12.50	4.50	CONCAVE					0.104	29
<b>UA 1444</b>	16.00	4.50	CONCAVE					0.119	36
<b>UA 1445</b>	19.00	4.50	CONCAVE					0.113	42
<b>UA 1446</b>	25.50	4.50	CONCAVE					0.149	54
<b>UA 1447</b>	32.00	6.00	CONCAVE					0.275	68
<b>UA 1448</b>	38.00	6.00	CONCAVE					0.325	79
<b>UA 1449</b>	51.00	6.00	FLAT					0.578	105



<b>COPE MOULD</b>									
<b>UA 1501</b>	18.50	18.50						0.181	68
<b>UA 1500</b>	23.80	8.26						0.149	59
<b>UA 1499</b>	34.43	14.53						0.346	88



<b>ZED</b>									
<b>AUS 8169</b>	11.50	21.50	36.00	1.50	B LEG 2.00			0.294	134
<b>UA 1221</b>	16.00	20.00	25.00	1.60				0.251	119
<b>UA 2983</b>	18.50	20.00	15.00	1.50	B LEG 2.75			0.267	104
<b>UA 6725</b>	19.00	19.00	25.40	2.00		3.00		0.327	118
<b>UA 1222</b>	20.00	20.00	25.00	3.00				0.480	124
<b>AUS 8109</b>	20.00	21.60	25.50	1.60				0.276	131
<b>AUS 10135</b>	21.00	31.75	40.00	2.00				0.479	181
<b>UA 1639</b>	25.00	19.00	17.00	1.60				0.250	118
<b>UA 1223</b>	25.00	25.00	30.00	3.00				0.602	154
<b>UA 1487</b>	31.80	31.80	152.40	3.00				1.701	426
<b>UA 5813</b>	40.00	48.00	55.00	6.00				2.122	273



<b>I BEAM</b>									
<b>UA 1196</b>	40.00	40.00	3.00	3.00				0.927	234
<b>UA 1195</b>	45.00	50.00	2.50	2.50				0.915	275
<b>UA 1493</b>	69.90	102.00	3.43	5.54	+2.96 LIP	3.00		3.083	490
<b>AUS 10016</b>	80.00	117.90	6.00	8.00	1.00	2.50		5.117	537
<b>AUS 8817</b>	100.00	107.00	6.00	6.00		6.00		4.861	590
<b>UA 4389</b>	100.00	150.00	7.10	9.50		11.10		7.926	665

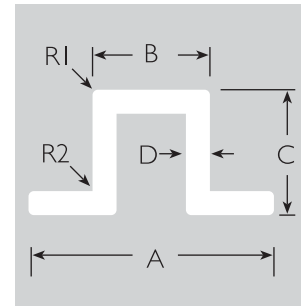
R = Radiused corner



DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED, DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
**OAD** = OVERALL DIMENSIONS  
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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>TOP HAT</b>									
<b>UA 1280</b>	50.00	25.00	16.00	1.50				0.321	160
<b>UA 1281</b>	57.00	24.00	28.00	2.30				0.675	221
<b>UA 6724</b>	60.00	25.00	22.00	2.40				0.642	202
<b>UA 1569</b>	60.00	30.00	30.00	2.50				0.776	234
<b>UA 5047</b>	63.50	31.75	31.75	3.00	3.00	3.00		0.990	240
<b>UA 1283</b>	65.00	30.00	30.00	2.50				0.810	244
<b>UA 2510</b>	68.00	38.00	57.00	3.00				1.425	357
<b>UA 1620</b>	70.00	38.00	45.00	3.00				1.247	314
<b>UA 1621</b>	75.00	32.00	45.00	3.00				1.288	324
<b>UA 3575</b>	100.00	60.00	29.00	5.00	2.00	2.00		1.997	299
<b>UA 3813</b>	110.00	58.00	50.00	4.00				2.181	411
<b>UA 1284</b>	110.00	66.00	28.00	3.00				1.300	325
<b>UA 1282</b>	125.00	62.00	30.00	3.00				1.455	363
<b>UA 7628</b>	134.00	60.00	100.00	3.00	0.50	0.50		2.656	660



R = Radiused corner

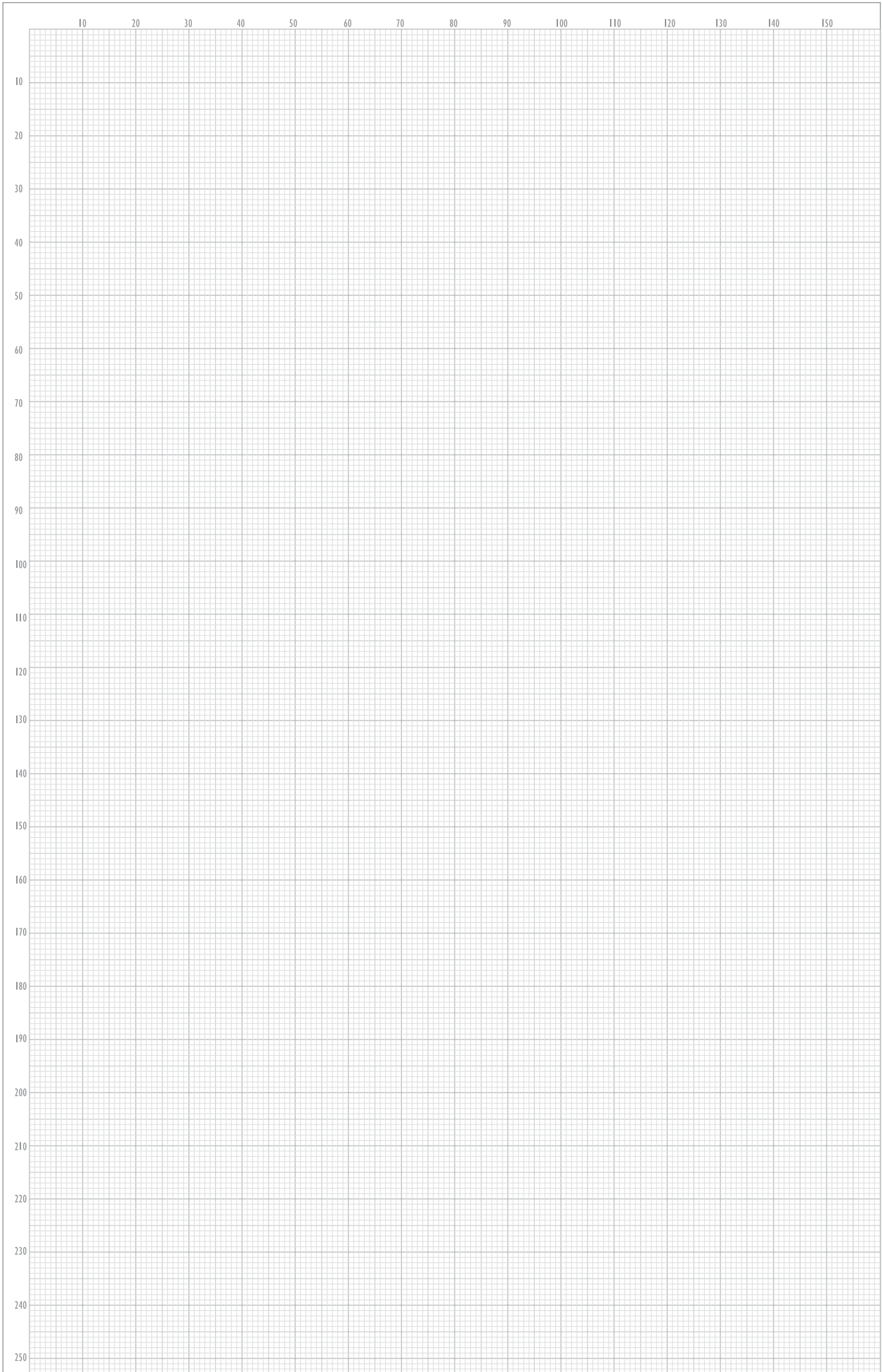
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DIE No	DESCRIPTION	DIE No	DESCRIPTION
UA 1474	JOINTER	UA 6877	ANGLE
UA 1502	CHANNEL	UA 6878	CHANNEL
UA 1503	CHANNEL	UA 6879	DOOR FRAME
UA 1504	CHANNEL	UA 6880	DOOR FRAME
UA 1505	CHANNEL	UA 7172	COVING
UA 1506	CHANNEL	AUS 8940	COVING
UA 1512	COVING	AUS 8974	ANGLE
UA 1517	INTERNAL ANGLE		
UA 1518	EXTERNAL ANGLE		
UA 1523	CHANNEL		
UA 1915	SCOTIA		
UA 1948	INTERNAL ANGLE		
UA 1993	SLIDING DOOR CHANNEL		
UA 1994	SLIDING DOOR CHANNEL		
UA 2166	CHANNEL CAP		
UA 2491	COVING		
UA 2526	CHANNEL		
UA 2527	EXTERNAL ANGLE		
UA 2563	COVING		
UA 2622	CHANNEL		
UA 2675	EXTERNAL ANGLE		
UA 2728	CHANNEL		
UA 2799	CHANNEL		
UA 2800	CHANNEL		
UA 2801	CHANNEL		
UA 2895	CHANNEL		
UA 3204	100mm DOOR REBATED		
UA 3205	DOOR CHANNEL		
UA 3229	50mm DOOR REBATED		
UA 3230	75mm DOOR REBATED		
UA 3714	DOOR CHANNEL		
UA 3812	CHANNEL		
UA 3830	EXTERNAL ANGLE		
UA 3836	CHANNEL		
UA 3837	CHANNEL		
UA 3838	CHANNEL		
UA 4254	CHANNEL		
UA 4255	CHANNEL		
AUS 5895	CHANNEL		
AUS 5896	CHANNEL		
AUS 5897	CHANNEL		
AUS 5898	CHANNEL		
AUS 5899	COVING		
AUS 5900	CHANNEL		
UA 5938	ANGLE		
AUS 6435	COLD ROOM		
AUS 6457	RUB RAIL		
AUS 6460	CHANNEL		
AUS 6616	PREFAB INT CORNER		
AUS 6617	CHANNEL		
AUS 6620	PREFAB DOOR CHANNEL		
AUS 6622	PREFAB DOOR STOP		
AUS 6663	PREFAB DOOR FRAME		
AUS 6829	COLD ROOM		

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**UA 1502**

CHANNEL

kg/m 0.541 P 253

OAD 53.2 × 45 × 1.6

**UA 1503**

CHANNEL

kg/m 0.650 P 303

OAD 78.2 × 45 × 1.6

**UA 1504**

CHANNEL

kg/m 0.758 P 353

OAD 103.2 × 45 × 1.6

**UA 2622**

CHANNEL

kg/m 0.769 P 358

OAD 105.7 × 45 × 1.6

**UA 2799**

CHANNEL

kg/m 0.509 P 254

OAD 54 × 45 × 1.5

**UA 2800**

CHANNEL

kg/m 0.610 P 304

OAD 79 × 45 × 1.5

**UA 2801**

CHANNEL

kg/m 0.712 P 354

OAD 104 × 45 × 1.5

**UA 4254**

CHANNEL

kg/m 0.545 P 206

OAD 55 × 25 × 2.0

**UA 4255**

CHANNEL

kg/m 1.295 P 326

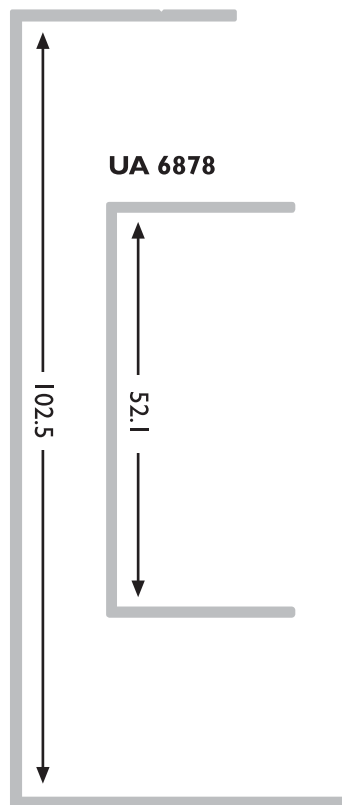
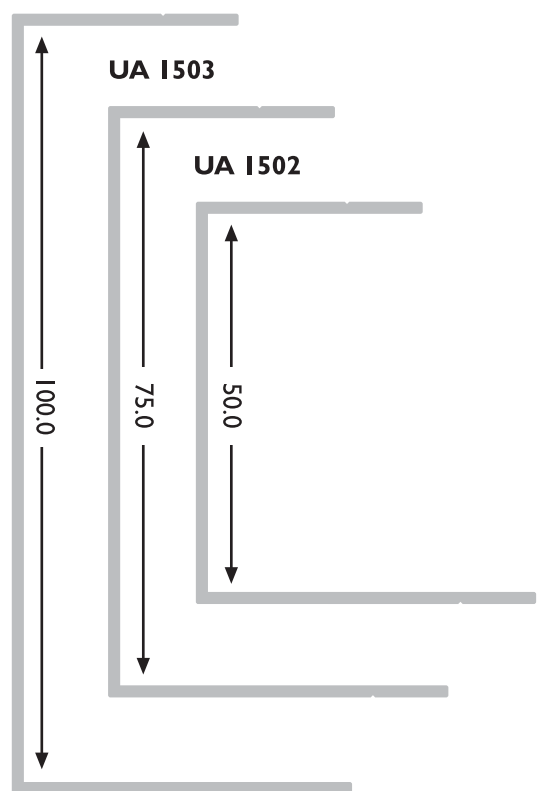
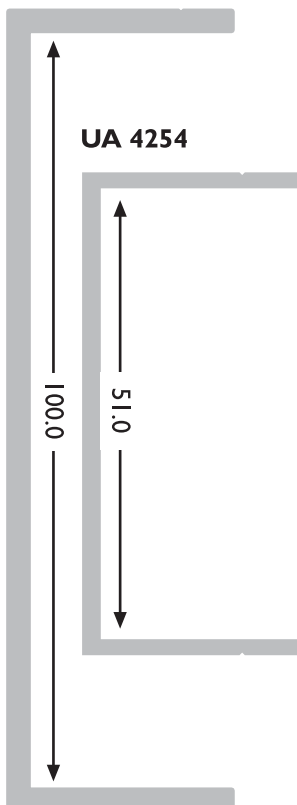
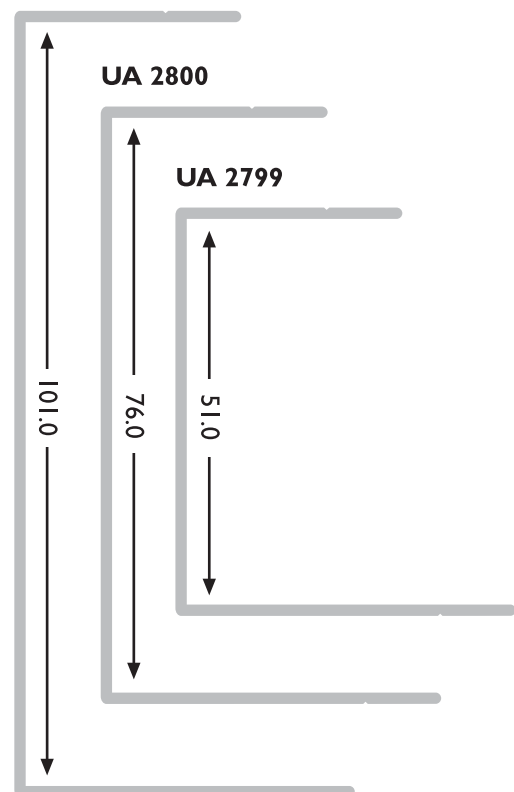
OAD 106 × 30 × 3.0

**UA 6878**

CHANNEL

kg/m 0.399 P 207

OAD 55 × 25 × 1.45

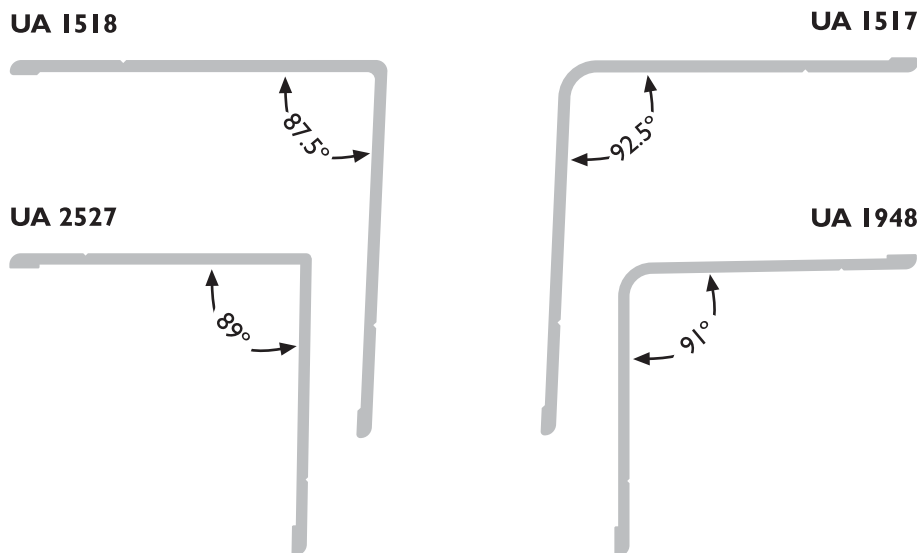
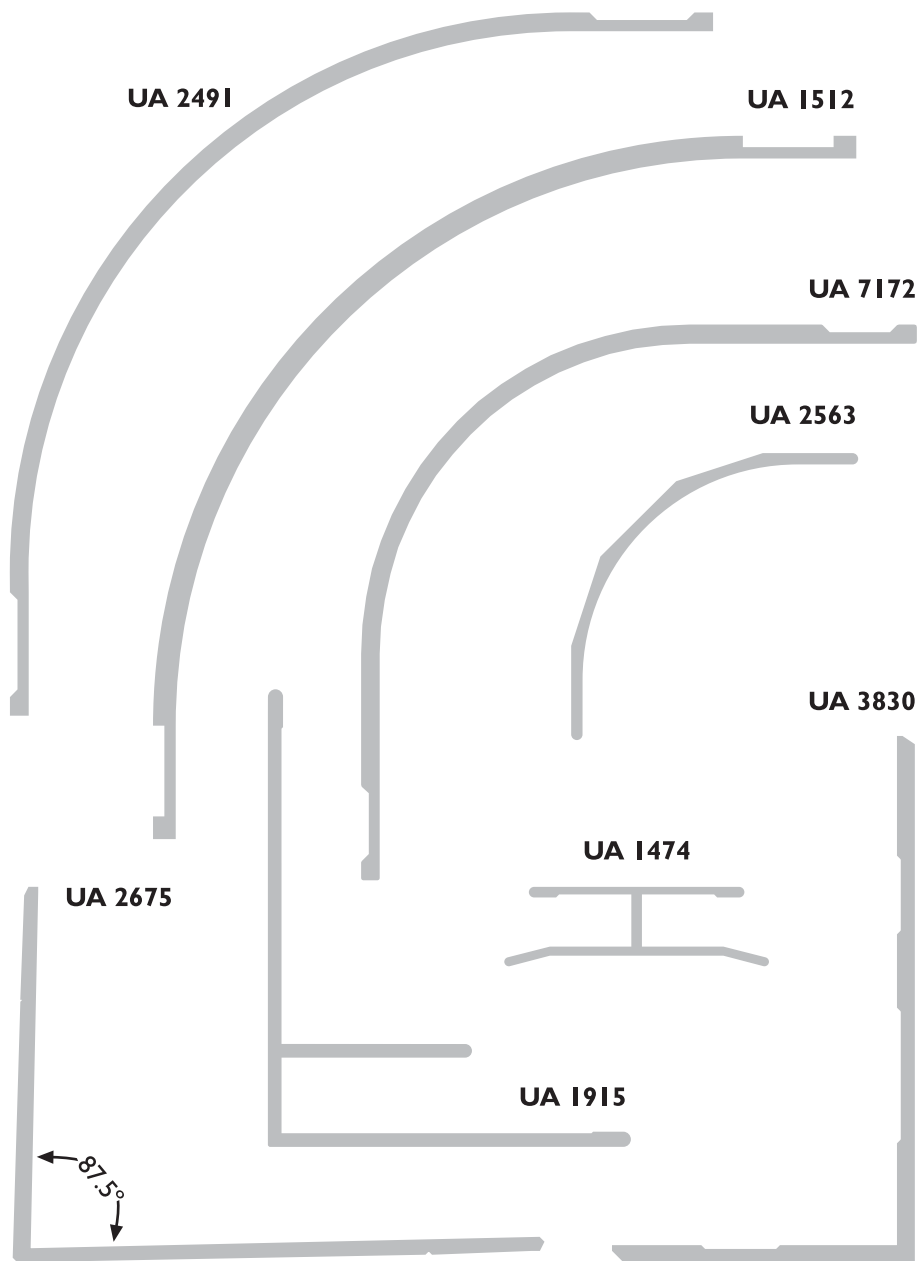
**UA 2622****UA 1504****UA 4255****UA 2801**

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**UA 1474**  
JOINTER  
kg/m 0.235 P 142  
OAD 35 x 10.5

**UA 1512**  
COVING  
kg/m 1.119 P 312  
OAD 93 x 93

**UA 1517**  
INTERNAL ANGLE  
kg/m 0.423 P 197  
OAD 50 x 50

**UA 1518**  
EXTERNAL ANGLE  
kg/m 0.431 P 199  
OAD 50 x 50

**UA 1915**  
SCOTIA  
kg/m 0.643 P 266  
OAD 60.5 x 48

**UA 1948**  
INTERNAL ANGLE  
kg/m 0.314 P 155  
OAD 40 x 40

**UA 2491**  
COVING  
kg/m 0.940 P 344  
OAD 91.5 x 91.5

**UA 2527**  
EXTERNAL ANGLE  
kg/m 0.326 P 161  
OAD 40 x 40

**UA 2563**  
COVING  
kg/m 0.274 P 127  
OAD 37.95 x 37.95

**UA 2675**  
EXTERNAL ANGLE  
kg/m 0.510 P 239  
OAD 70 x 50

**UA 3830**  
EXTERNAL ANGLE  
kg/m 0.516 P 220  
OAD 70 x 40

**UA 7172**  
COVING  
kg/m 0.804 P 259  
OAD 73.5 x 73.5

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**UA 1505**

CHANNEL

kg/m 0.411 P 192

OAD 48.2 x 25 x 1.6

**UA 1506**

CHANNEL

kg/m 1.164 P 331

OAD 118.4 x 25

**UA 1523**

CHANNEL

kg/m 1.549 P 429

OAD 168 x 25

**UA 1993**

SLIDING DOOR CHANNEL

kg/m 2.507 P 452

OAD 97 x 50

**UA 1994**

SLIDING DOOR CHANNEL

kg/m 1.123 P 340

OAD 75 x 55.3

**UA 2526**

CHANNEL

kg/m 0.938 P 279

OAD 92.2 x 25.4

**UA 2728**

CHANNEL

kg/m 0.616 P 203

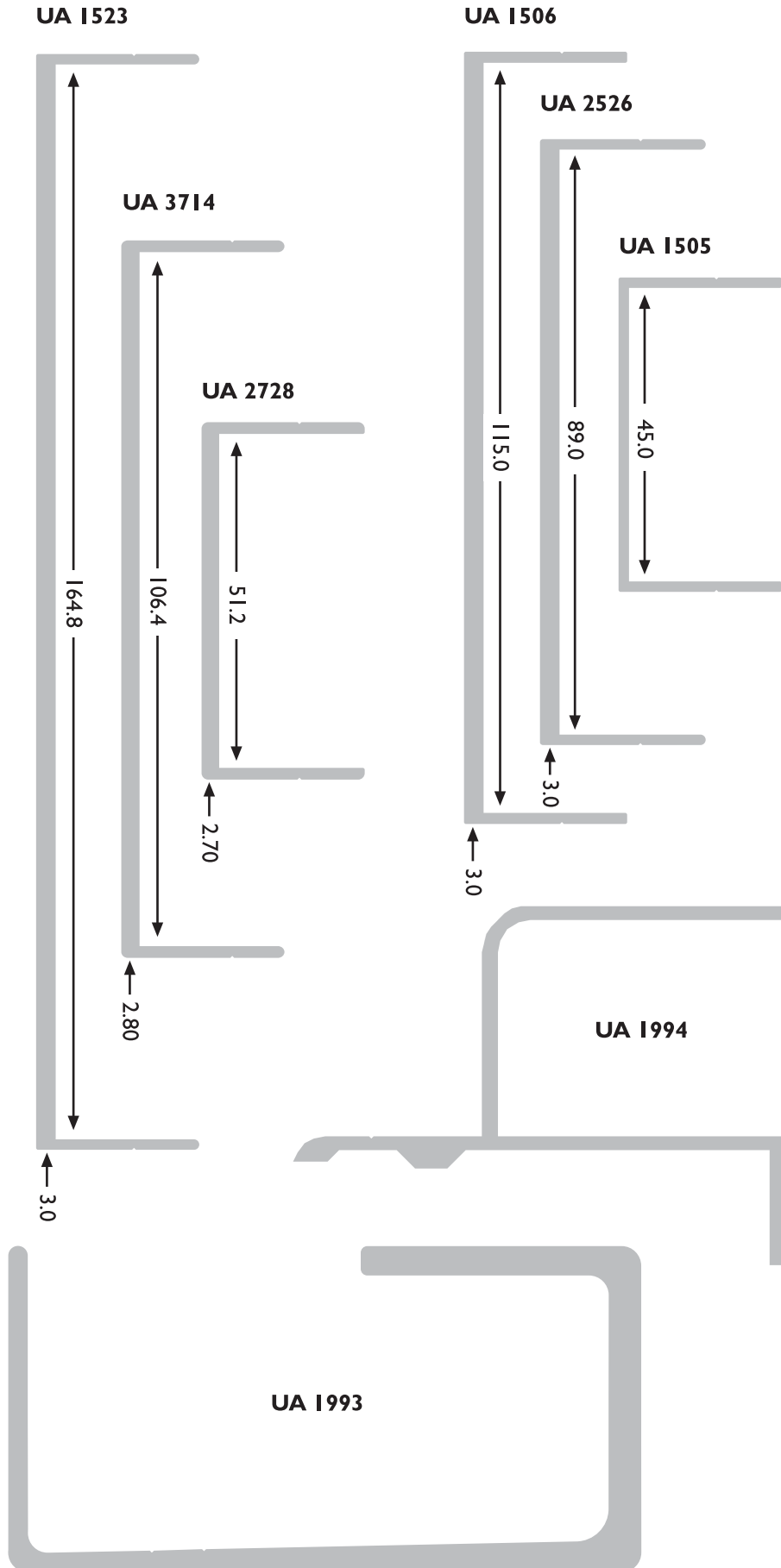
OAD 54.8 x 25

**UA 3714**

DOOR CHANNEL

kg/m 1.045 P 314

OAD 110 x 25



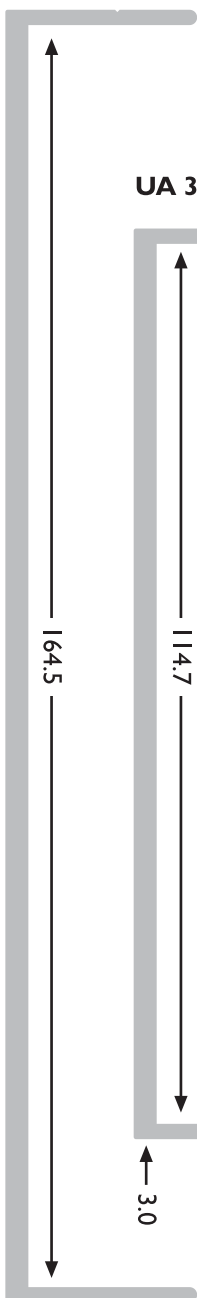
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

**OAD** = OVERALL DIMENSIONS

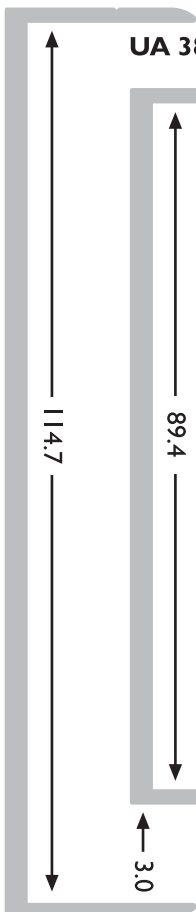
**P** = EXT PERIPHERY

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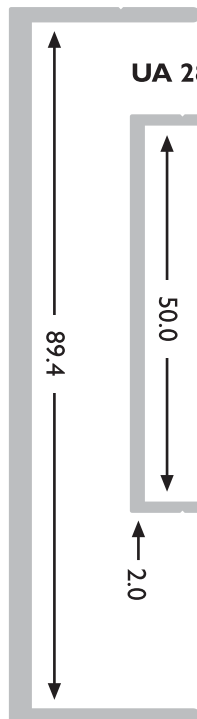
UA 3836



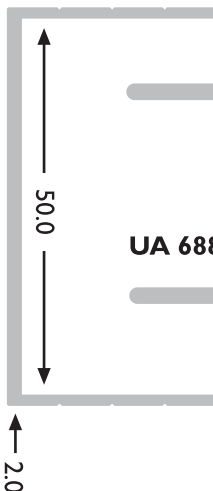
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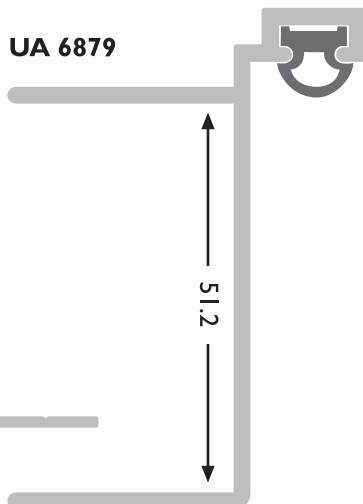
UA 3838



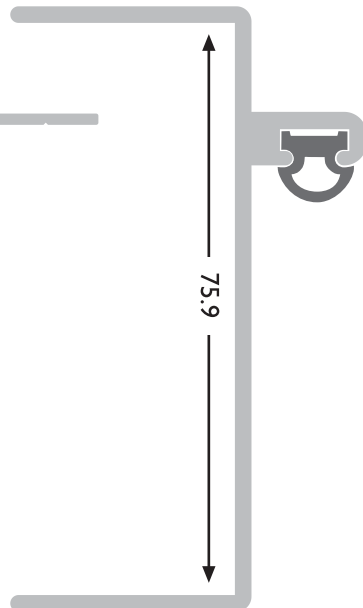
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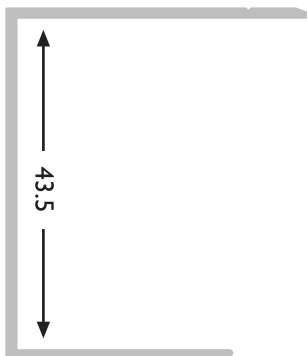
UA 6879



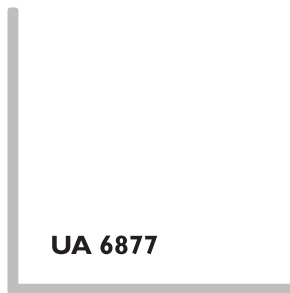
UA 6880



UA 2166



UA 6877



UA 5938



UA 2166

CHANNEL CAP  
kg/m 0.467 P 229  
OAD 46.5 x 40

UA 2895

CHANNEL  
kg/m 0.495 P 215  
OAD 53 x 28

UA 3836

CHANNEL  
kg/m 1.600 P 430  
OAD 168.5 x 25

UA 3837

CHANNEL  
kg/m 1.191 P 330  
OAD 118.7 x 25

UA 3838

CHANNEL  
kg/m 0.991 P 280  
OAD 93.4 x 25

UA 5938

ANGLE  
kg/m 0.468 P 220  
OAD 70 x 40

UA 6877

ANGLE  
kg/m 0.291 P 152  
OAD 38 x 38

UA 6879

DOOR FRAME  
kg/m 0.882 P 298  
OAD 66 x 47.3 Infill 40404

UA 6880

DOOR FRAME  
kg/m 1.002 P 324  
OAD 80.3 x 47.3 Infill 40404

**INFILLS SOLD SEPARATELY**

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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 16 - 2018

**UA 3812**

CHANNEL  
kg/m 0.361 P 205  
OAD 54 x 24.9

**AUS 5895**

CHANNEL  
kg/m 0.755 P 354  
OAD 103 x 38

**AUS 5896**

CHANNEL  
kg/m 0.647 P 304  
OAD 78 x 38

**AUS 5897**

CHANNEL  
kg/m 0.976 P 277  
OAD 92.1 x 25.4

**AUS 5898**

CHANNEL  
kg/m 1.634 P 430  
OAD 168.3 x 25.4

**AUS 5899**

COVING  
kg/m 0.255 P 121  
OAD 35 x 35

**AUS 5900**

CHANNEL  
kg/m 0.325 P 204  
OAD 53.2 x 25

**AUS 6457**

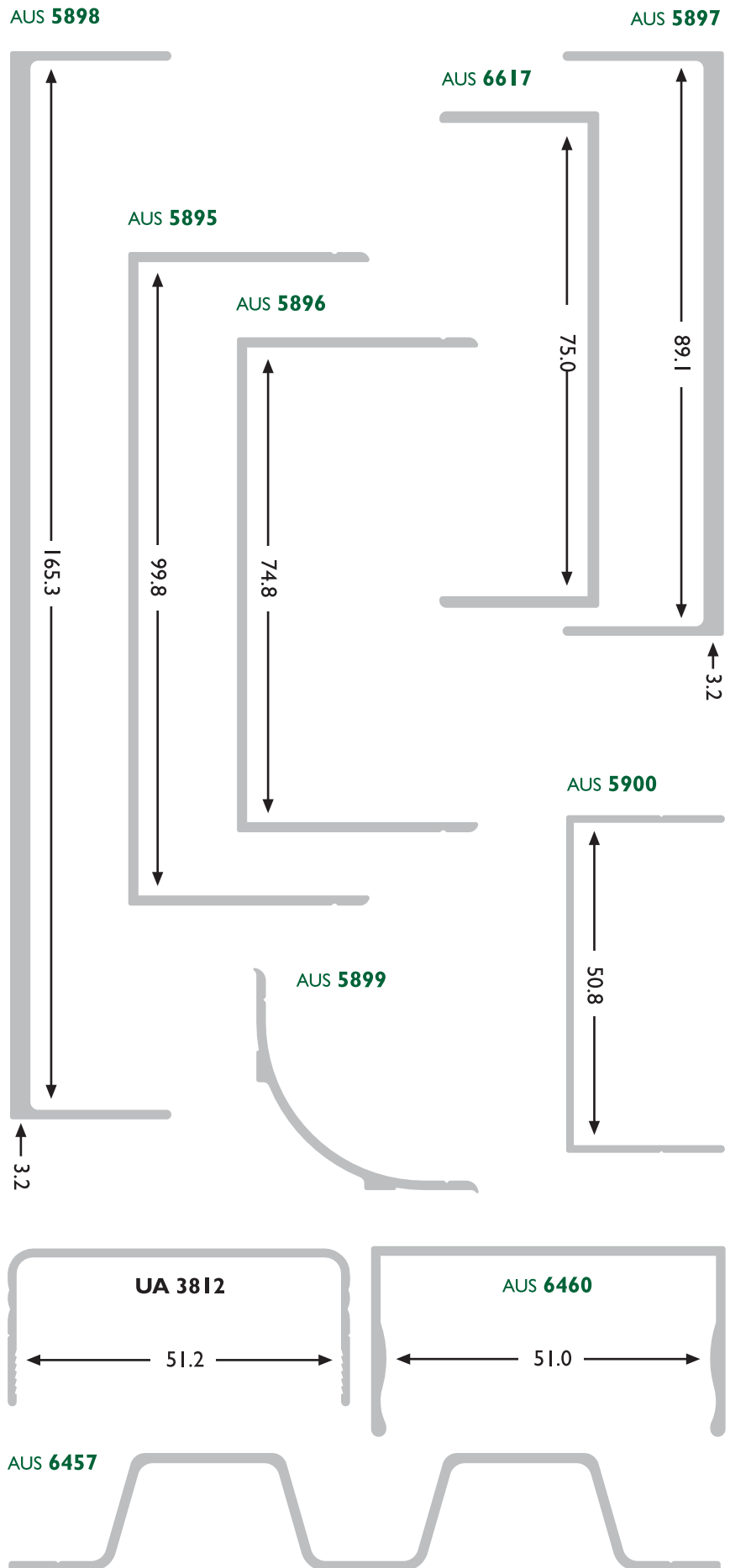
RUB RAIL  
kg/m 0.692 P 320  
OAD 112 x 18.6

**AUS 6460**

CHANNEL  
kg/m 0.506 P 229  
OAD 55.8 x 30

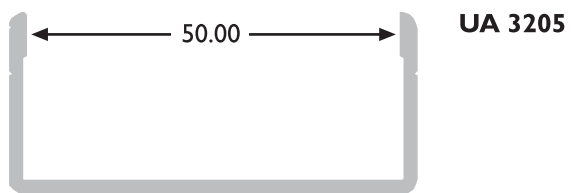
**AUS 6617**

CHANNEL  
kg/m 0.538 P 252  
OAD 78.2 x 25



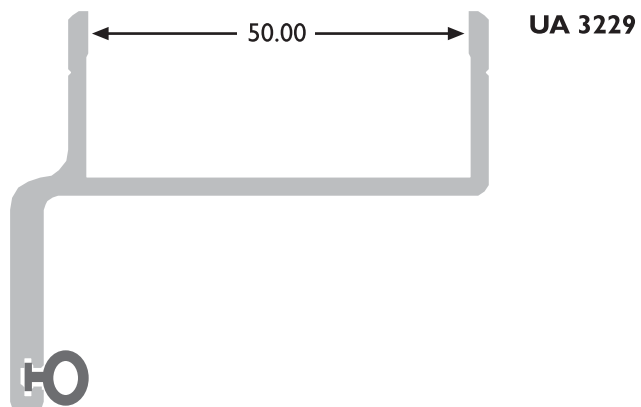
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UA 3205

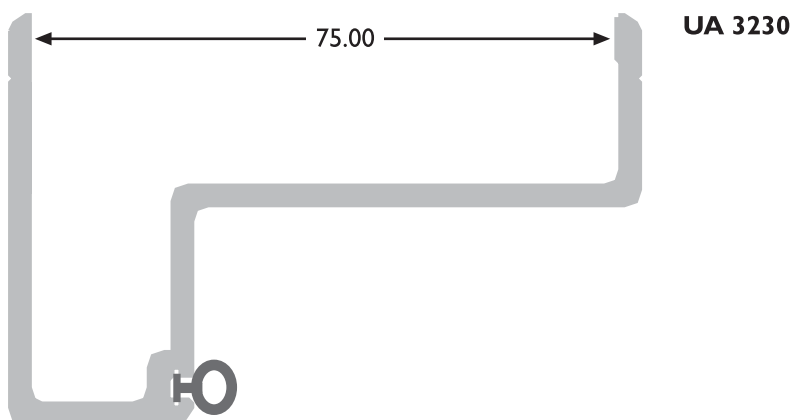
**UA 3204**  
 100mm DOOR REBATED  
 kg/m 1.406 P 445  
 OAD 105.8 x 52 Infill 9101



UA 3229

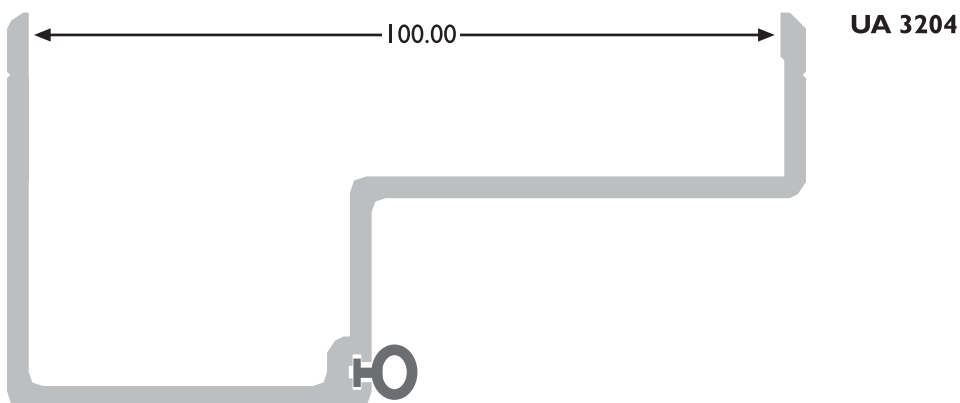
**UA 3205**  
 DOOR CHANNEL  
 kg/m 0.429 P 199  
 OAD 54 x 24

**UA 3229**  
 50mm DOOR REBATED  
 kg/m 0.851 P 276  
 OAD 63 x 52 Infill 9101



UA 3230

**UA 3230**  
 75mm DOOR REBATED  
 kg/m 1.240 P 394  
 OAD 80.8 x 52 Infill 9101



UA 3204

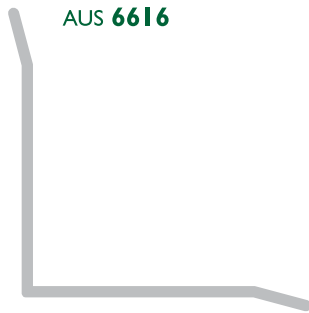
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**AUS 6616**

PREFAB INT CORNER  
kg/m 0.276 P 160  
OAD 41.85 x 41.85

**AUS 6620****AUS 6620**

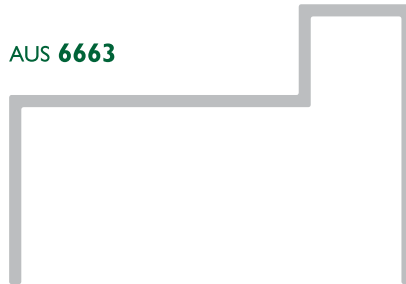
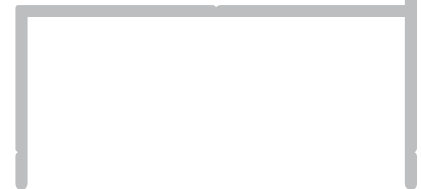
PREFAB DOOR CHANNEL  
kg/m 0.440 P 220  
OAD 53 x 38

**AUS 6622**

PREFAB DOOR STOP  
kg/m 0.552 P 261  
OAD 53.2 x 47.5

**AUS 6663**

PREFAB DOOR FRAME  
kg/m 0.537 P 251  
OAD 53.5 x 37

**AUS 6663****AUS 6622****AUS 6435**

COLD ROOM  
kg/m 1.446 P 422  
OAD 112.3 x 70

**AUS 6829**

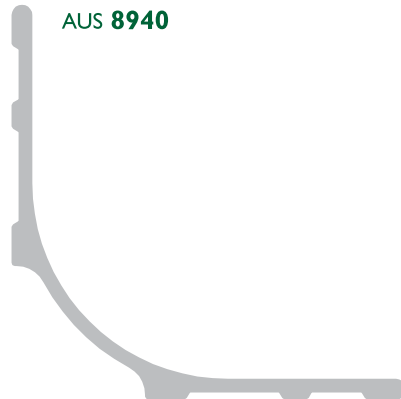
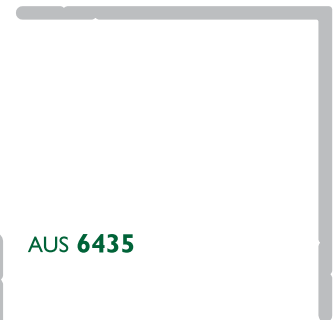
COLD ROOM  
kg/m 1.607 P 253  
OAD 90 x 16

**AUS 8940**

COVING  
kg/m 0.456 P 183  
OAD 50 x 50

**AUS 8974**

ANGLE  
kg/m 0.316 P 160  
OAD 40 x 40

**AUS 8974****AUS 6435****AUS 6829**

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<b>DIE No</b>	<b>DESCRIPTION</b>
<b>UA 1357</b>	<b>INDUSTRIAL STEP</b>
<b>UA 1426</b>	<b>HERZIM THRESHOLD</b>
<b>UA 1488</b>	<b>THRESHOLD</b>
<b>UA 1489</b>	<b>THRESHOLD</b>
<b>UA 1490</b>	<b>THRESHOLD</b>
<b>UA 2580</b>	<b>THRESHOLD</b>
<b>UA 2955</b>	<b>THRESHOLD</b>

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**UA 1357**

INDUSTRIAL STEP  
kg/m 1.448 P 286  
OAD 96 x 22

**UA 1426**

HERZIM THRESHOLD  
kg/m 0.819 P 215  
OAD 89.5 x 9 Infill 12

**UA 1488**

THRESHOLD  
kg/m 1.888 P 370  
OAD 169 x 14.68

**UA 1489**

THRESHOLD  
kg/m 1.022 P 229  
OAD 101.6 x 13.08

**UA 1490**

THRESHOLD  
kg/m 0.892 P 181  
OAD 76.2 x 12.7

**UA 2580**

THRESHOLD  
kg/m 0.702 P 146  
OAD 60 x 12.7

**UA 2955**

THRESHOLD  
kg/m 0.973 P 192  
OAD 76.2 x 18.7

**UA 2580****UA 1490****UA 2955****UA 1489****UA 1357****UA 1426****UA 1488**

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**INFILLS SOLD SEPARATELY**



<b>DIE No</b>	<b>DESCRIPTION</b>
UA 1432	<b>NOSING Serrated</b>
UA 1433	<b>NOSING Serrated</b>
UA 1434	<b>NOSING Serrated</b>
UA 1435	<b>ANGLE Serrated</b>
UA 1436	<b>NOSING Castellated</b>
UA 1437	<b>CARPET EDGE</b>
UA 1439	<b>FLOORING BAR</b>
UA 1440	<b>CASTELLATED FLAT</b>
UA 1441	<b>SERRATED FLAT</b>
UA 1442	<b>ANGLE Serrated</b>
UA 1491	<b>VINYL FLOOR COPE</b>
UA 1495	<b>NOSING Double Round</b>
UA 1496	<b>NOSING Double Square</b>
UA 1497	<b>NOSING Single Round</b>
UA 1498	<b>NOSING Single Square</b>
UA 1574	<b>CARPET COPE</b>
UA 1575	<b>FLOORING EDGE</b>
UA 1576	<b>FLOORING BAR</b>
UA 1577	<b>FLOORING BAR</b>
UA 2197	<b>NOSING Serrated</b>
UA 2323	<b>FORMICA TRIM</b>
UA 4227	<b>NOSING Single Round</b>
UA 4228	<b>NOSING Single Square</b>
UA 4403	<b>NOSING Serrated</b>
UA 5672	<b>TILE EDGE</b>
UA 5673	<b>TILE BULLNOSE</b>

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**P** = EXT PERIPHERY

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**UA I432**

NOSING Heavy Serrated  
kg/m 0.419 P 154  
OAD 49.86 x 27

**UA I433**

NOSING Round Serrated  
kg/m 0.228 P 126  
OAD 33.13 x 29.5

**UA I434**

NOSING Light Serrated  
kg/m 0.175 P 92  
OAD 35.5 x 15

**UA I435**

ANGLE Serrated  
kg/m 0.204 P 93  
OAD 26.42 x 19

**UA I436**

NOSING Castellated  
kg/m 0.466 P 152  
OAD 57.5 x 16

**UA I437**

CARPET EDGE Serrated  
kg/m 0.122 P 64  
OAD 26.5 x 9

**UA I442**

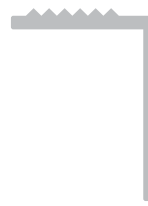
ANGLE Serrated  
kg/m 0.143 P 85  
OAD 20 x 20

**UA 2197**

NOSING Serrated  
kg/m 0.506 P 230  
OAD 70 x 40

**UA 4403**

NOSING Serrated  
kg/m 0.540 P 147  
OAD 58 x 15.3

**UA I442****UA I435****UA I437****UA 4403****UA I434****UA I432****UA I436****UA 2197****UA I433**

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**UA 1441**



**UA 1440**



**UA 1439**



**UA 1439**

FLOORING BAR  
kg/m 0.132 P 58  
OAD 25.5 x 4

**UA 1575**



**UA 1491**



**UA 2323**



**UA 1440**

CASTELLATED FLAT  
kg/m 0.244 P 96  
OAD 38.4 x 3

**UA 1441**

SERRATED FLAT  
kg/m 0.109 P 47  
OAD 18 x 3

**UA 5672**



**UA 5673**



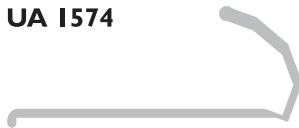
**UA 1491**

VINYL FLOOR COPE  
kg/m 0.140 P 60  
OAD 25.4 x 5.56

**UA 1574**

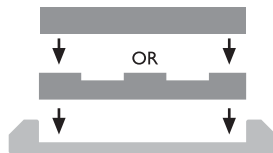
CARPET COPE  
kg/m 0.193 P 117  
OAD 38.86 x 15.99

**UA 1574**

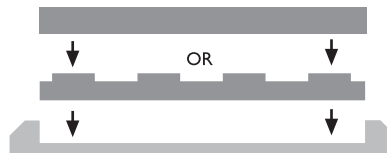


**UA 1575**

FLOORING EDGE  
kg/m 0.140 P 54  
OAD 24.3 x 3



**UA 1576**



**UA 1577**

**UA 1576**

FLOORING BAR  
kg/m 0.198 P 83  
OAD 35.4 x 4.5

**UA 1577**

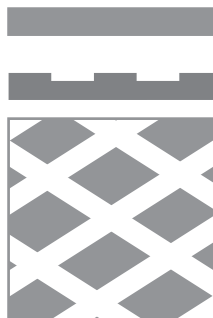
FLOORING BAR  
kg/m 0.262 P 115  
OAD 51.2 x 4.5

**UA 2323**

FORMICA TRIM  
kg/m 0.091 P 52  
OAD 20.5 x 6.5

**NOSING INFILLS**

Designs Available  
WALKSAFE - SMOOTH  
AQUADEK - TREADED  
Width 27mm & 42mm  
Various Colours



**WALKSAFE**

**AQUADEK**

AQUADEK  
TOPVIEW

**UA 5672**

TILE EDGE  
kg/m 0.135 P 71  
OAD 24.5 x 11.5

**UA 5673**

TILE BULLNOSE  
kg/m 0.139 P 76  
OAD 24.5 x 11.10

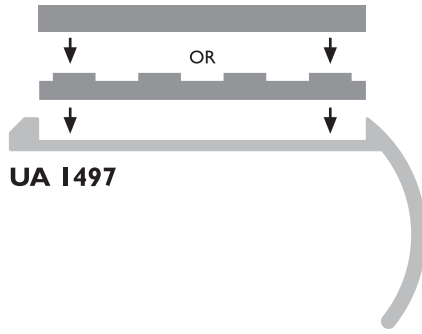
**INFILLS SOLD SEPARATELY**

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**UA 1495**

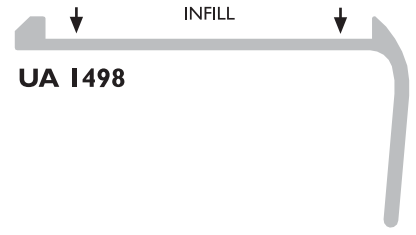
NOSING Double Round  
kg/m 0.558 P 235  
OAD 87.6 x 28



**UA 1497**

**UA 1496**

NOSING Double Square  
kg/m 0.566 P 234  
OAD 87.6 x 28



**UA 1498**

**UA 1497**

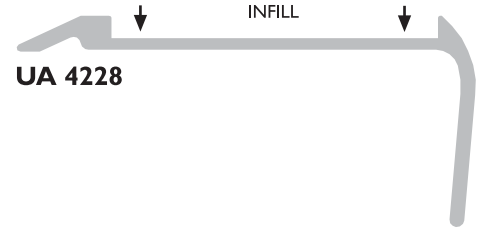
NOSING Single Round  
kg/m 0.388 P 164  
OAD 55.2 x 28



**UA 4227**

**UA 1498**

NOSING Single Square  
kg/m 0.378 P 160  
OAD 52.2 x 28



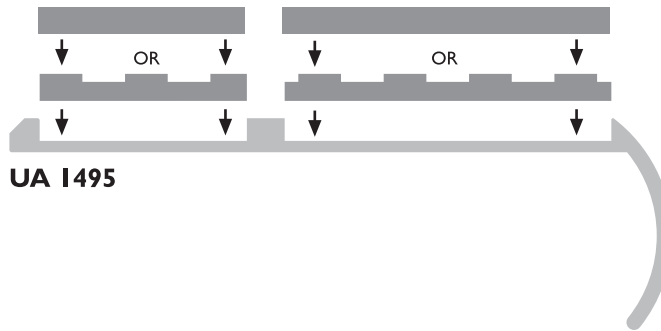
**UA 4228**

**UA 4227**

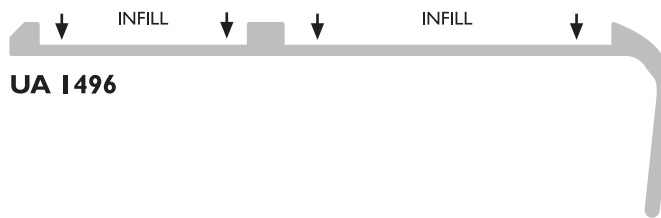
NOSING Single Round  
kg/m 0.437 P 180  
OAD 63.7 x 28

**UA 4228**

NOSING Single Square  
kg/m 0.428 P 176  
OAD 60.7 x 28



**UA 1495**



**UA 1496**

**NOSING INFILLS**

Designs Available  
WALKSAFE - SMOOTH  
AQUADEK - TREADED  
Width 27mm & 42mm  
Various Colours



**WALKSAFE**

**AQUADEK**

AQUADEK  
TOP VIEW



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**INFILLS SOLD SEPARATELY**

DIE No	DESCRIPTION
UA 1318	TOE RAIL
UA 1415	TOE RAIL Prepunched
UA 1416	PERSPEX JOINTER
UA 1418	PERSPEX UPRIGHT
UA 1419	PERSPEX CAP
UA 1420	PERSPEX PILLAR CAP
UA 1421	PERSPEX CAP
UA 1422	FIBREGLASS CAP
UA 1423	SAIL TRACK
UA 1424	SAIL TRACK
UA 1425	SAIL TRACK
UA 1519	TOE RAIL Prepunched
UA 1520	TOE RAIL Prepunched
UA 1640	GUNNEL
UA 2687	GUNNEL RAIL
UA 2785	PERSPEX CAP
UA 2875	KEEL
UA 2907	BOAT GUNNEL
UA 2972	BOAT RIB
UA 3079	GUNNEL
UA 3147	GUNNEL RAIL
UA 3212	KEEL
UA 3213	KEEL
UA 3418	SAIL TRACK
UA 3747	HULL PLANING STRIP
UA 3811	KEEL
UA 3943	GUNNEL
UA 4903	GUNNEL RAIL
UA 5179	HATCH SECTION
UA 5236	GUNNEL
UA 5237	PERSPEX CAP
UA 5283	BOAT RIB
UA 5889	DECK CAPPING
UA 6770	HATCH SECTION
UA 6771	HATCH SECTION
UA 7072	GUNNEL
UA 7177	LIPPED CHANNEL
UA 7891	DOOR JAMB
UA 7892	DOOR FRAME
UA 7893	DOOR TRANSOM
AUS 10120	KEEL
AUS 10121	KEEL
AUS 10122	KEEL
AUS 10123	KEEL
AUS 10124	GUNNEL RAIL
AUS 10127	TRANSOM DOUBLE CHANNEL

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**UA 1318**

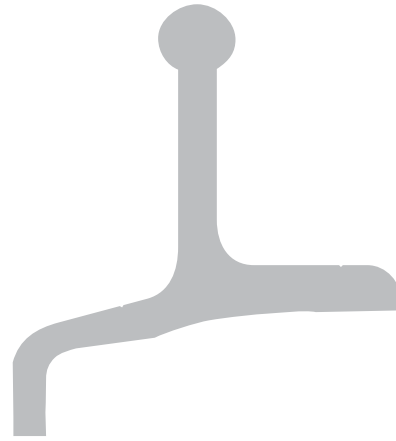
TOE RAIL  
kg/m 0.220 P 81  
OAD 22.22 x 19.6

**UA 1318****UA 1519****UA 1415**

TOE RAIL Prepunched  
kg/m 1.130 P 219  
OAD 65 x 50.5

**UA 1415****UA 1519****UA 1519**

TOE RAIL Prepunched  
kg/m 2.194 P 235  
OAD 69.82 x 55.54

**UA 2972****UA 1520**

TOE RAIL Prepunched  
kg/m 1.158 P 210  
OAD 57.1 x 50.19

**UA 3747****UA 2875**

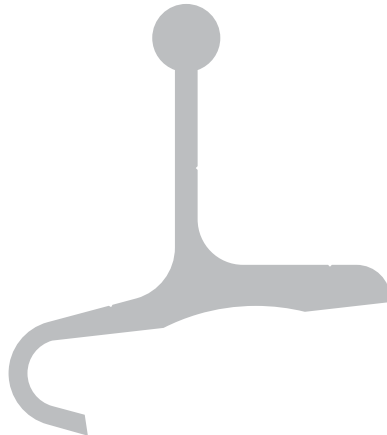
KEEL  
kg/m 1.651 P 269  
OAD 77.6 x 32.2

**UA 2875****UA 2972**

BOAT RIB  
kg/m 1.397 P 183  
OAD 76.2 x 19

**UA 3212**

KEEL  
kg/m 1.009 P 135  
OAD 38.7 x 29.55

**UA 1520****UA 3212****UA 3213**

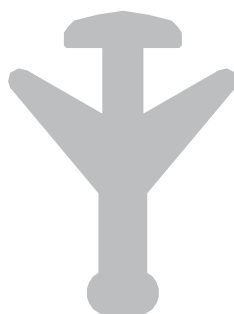
KEEL  
kg/m 2.105 P 214  
OAD 64.3 x 45

**UA 5283****UA 3747**

HULL PLANING STRIP  
kg/m 0.526 P 79  
OAD 30 x 12

**UA 3811**

KEEL  
kg/m 1.169 P 157  
OAD 40 x 30

**UA 3811****UA 3213****UA 5283**

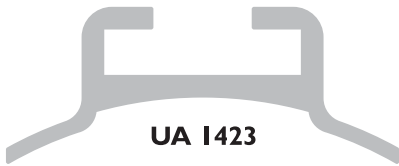
BOAT RIB  
kg/m 1.691 P 228  
OAD 98.7 x 18.9



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**UA 1425****UA 1424****UA 1423****UA 7177****UA 1422****UA 1420****UA 1416****UA 1418****UA 1419****UA 5237****UA 1421****UA 2785****UA 3418****UA 7177**

SAIL TRACK

kg/m 1.717 P 188

OAD 50 x 20

**UA 1416**

PERSPEX JOINTER

kg/m 0.119 P 50

OAD 17 x 6

**UA 1418**

PERSPEX UPRIGHT

kg/m 0.434 P 129

OAD 25.5 x 18

**UA 1419**

5mm PERSPEX CAP

kg/m 0.538 P 117

OAD 25.5 x 14

**UA 1420**

5mm PERSPEX PILLAR CAP

kg/m 0.564 P 139

OAD 25.5 x 14

**UA 1421**

5mm PERSPEX CAP

kg/m 0.393 P 99

OAD 22 x 12

**UA 1422**

5mm FIBREGLASS CAP

kg/m 0.133 P 70

OAD 12 x 9

**UA 1423**

SAIL TRACK

kg/m 0.712 P 183

OAD 52 x 21

**UA 1424**

SAIL TRACK

kg/m 0.478 P 124

OAD 32 x 12

**UA 1425**

SAIL TRACK

kg/m 0.213 P 85

OAD 22 x 8

**UA 2785**

5.4mm PERSPEX CAP

kg/m 0.372 P 99

OAD 22 x 12

**UA 3418**

SAIL TRACK

kg/m 0.458 P 130

OAD 31 x 17.13

**UA 5237**

5mm PERSPEX CAP

kg/m 0.175 P 67

OAD 12.7 x 9.4

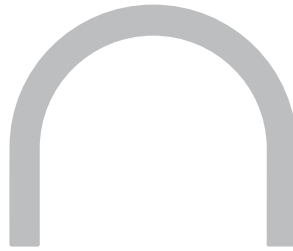
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**UA 1640**

4mm GUNNEL  
kg/m 0.857 P 167  
OAD 38 x 32

**UA 1640****UA 3079****UA 2687**

GUNNEL RAIL  
kg/m 0.758 P 198  
OAD 47 X 32

**UA 2907**

GUNNEL RAIL  
kg/m 1.107 P 260  
OAD 89.88 x 16

**UA 3943****UA 5236****UA 3079**

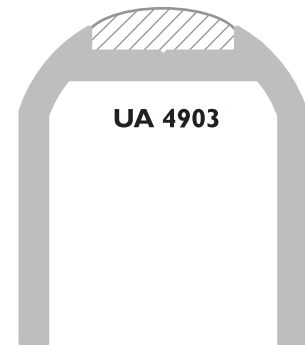
4-5-4mm GUNNEL  
kg/m 1.110 P 194  
OAD 50 x 35

**UA 3147**

GUNNEL RAIL  
kg/m 0.831 P 263  
OAD 65 x 40

**UA 3943**

5mm GUNNEL  
kg/m 1.571 P 243  
OAD 60 x 45

**UA 7072****UA 4903****UA 4903**

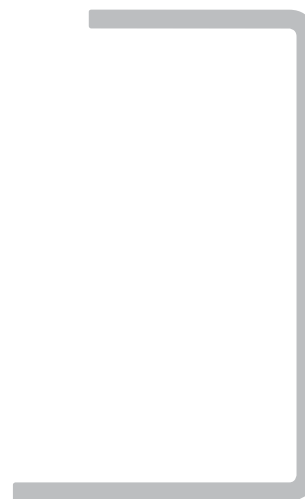
GUNNEL RAIL  
kg/m 1.109 P 222  
OAD 42.2 x 38  
Takes 19mm Timber Fillet  
( NOT AVAILABLE AT ULLRICH )

**UA 5236**

5-6-5mm GUNNEL  
kg/m 1.706 P 240  
OAD 60 x 45

**UA 2907****UA 7072**

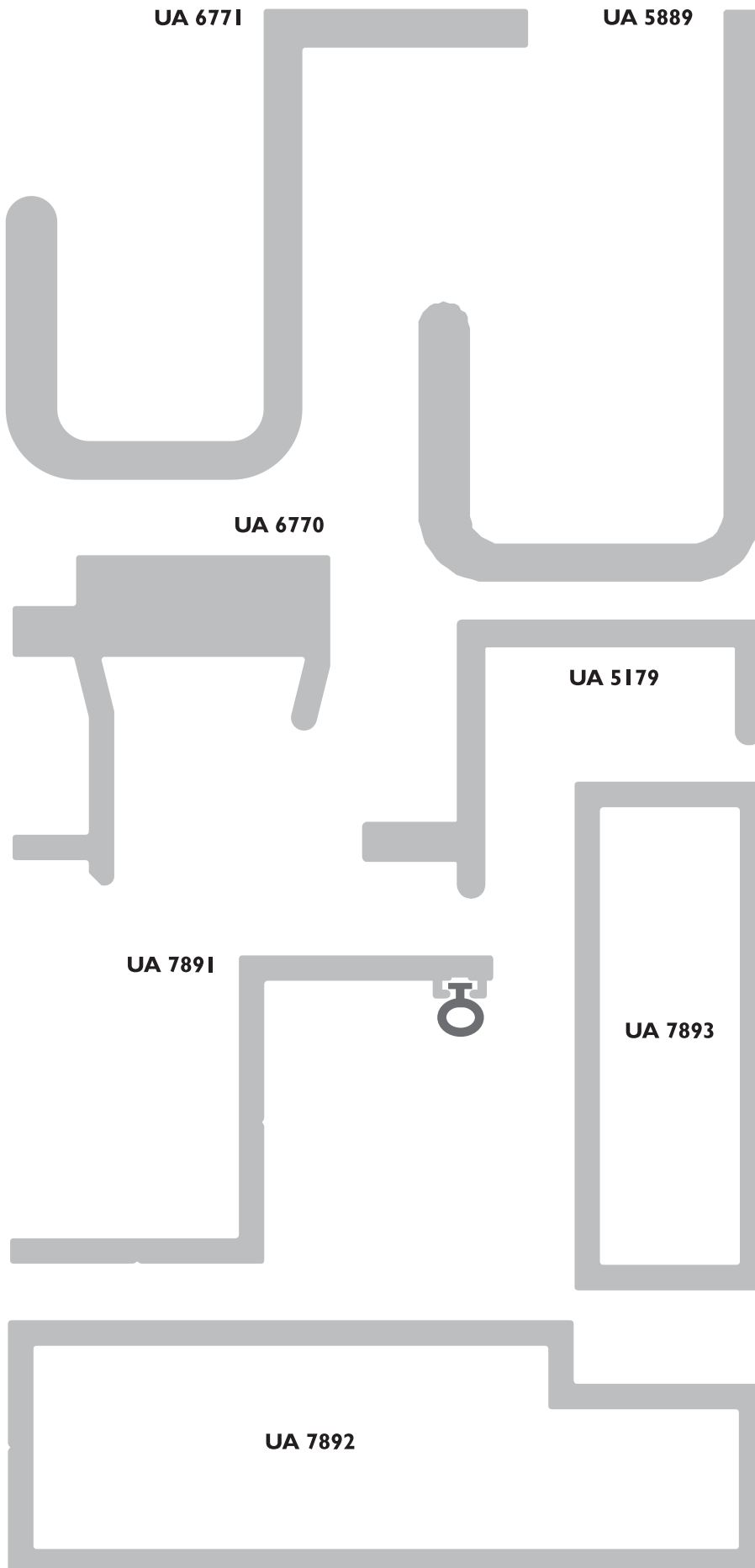
6mm GUNNEL  
kg/m 2.322 P 298  
OAD 75 x 55

**UA 3147****UA 2687**

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**UA 5179**  
HATCH SECTION  
kg/m 1.368 P 245  
OAD 63 x 45

**UA 5889**  
DECK CAPPING  
kg/m 2.926 P 347  
OAD 90 x 54

**UA 6770**  
HATCH SECTION  
kg/m 2.587 P 246  
OAD 52 x 50

**UA 6771**  
HATCH SECTION  
kg/m 3.088 P 366  
OAD 81 x 73

**UA 7891**  
DOOR JAMB  
kg/m 1.327 P 263  
OAD 76 x 48.5 Infill 9101

**UA 7892**  
DOOR FRAME  
kg/m 3.261 P 317  
OAD 119 x 40

**UA 7893**  
DOOR TRANSOM  
kg/m 2.203 P 220  
OAD 80 x 30

**INFILLS SOLD SEPARATELY**

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**AUS 10120**

KEEL  
kg/m 0.652 P 122  
OAD 41.06 x 14.72

**AUS 10121**

KEEL  
kg/m 1.538 P 186  
OAD 42.23 x 27.26

**AUS 10122**

KEEL  
kg/m 0.674 P 124  
OAD 25.8 x 21.5

**AUS 10123**

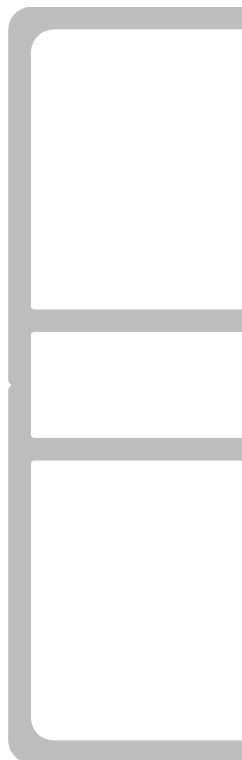
KEEL  
kg/m 1.021 P 156  
OAD 35 x 27.55

**AUS 10124**

GUNNEL RAIL  
kg/m 1.156 P 263  
OAD 89.87 x 16

**AUS 10127**

TRANSOM DBL CHANNEL  
kg/m 1.732 P 427  
OAD 100 x 31.5

**AUS 10122****AUS 10123****AUS 10121****AUS 10127****AUS 10124****AUS 10120**

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<b>DIE No</b>	<b>DESCRIPTION</b>
UA 1406	DBL SIDED AWNING RAIL
UA 1407	AWNING DRIP RAIL
UA 1408	LIGHT AWNING RAIL
UA 1409	DRIP RAIL
UA 1410	DRIP RAIL
UA 1411	LIGHT BUS DRIP RAIL
UA 1412	DRIP RAIL
UA 1413	HEAVY BUS DRIP RAIL
UA 1414	DRIP RAIL
UA 1417	RUB RAIL
UA 1426	HERZIM THRESHOLD
UA 1427	RUB RAIL
UA 1428	RUB RAIL
UA 1429	RUB RAIL
UA 1430	RUB RAIL
UA 1431	RUB RAIL
UA 1483	RUB RAIL
UA 1605	RUB RAIL
UA 1606	RUB RAIL
UA 1608	STD AWNING RAIL
UA 1875	BUFFER RAIL
UA 2218	BUS RUB RAIL
UA 2359	BUS RUB RAIL
UA 2583	RUB RAIL
UA 2584	RUB RAIL
AUS 5287	FLANGED SAIL TRACK
UA 6074	DBL SIDED RAIL
UA 6553	FLANGED AWNING RAIL
AUS 8362	DBL ROPE RAIL
AUS 10054	SAIL TRACK
AUS 10247	SAIL TRACK

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**UA 1406**

DBL SIDED AWNING RAIL  
kg/m 0.335 P 111  
OAD 32 x 13.91 ID 11mm

**UA 1407**

AWNING DRIP RAIL  
kg/m 0.506 P 141  
OAD 37.93 x 13.4 ID 11mm

**UA 1408**

LIGHT AWNING RAIL  
kg/m 0.22 P 104  
OAD 30.1 x 13.15 ID 11.2mm

**UA 1409**

DRIP RAIL  
kg/m 0.303 P 72  
OAD 19 x 14

**UA 1410**

DRIP RAIL  
kg/m 0.357 P 82  
OAD 22 x 16

**UA 1411**

LIGHT BUS DRIP RAIL  
kg/m 0.256 P 98  
OAD 25.5 x 16.5

**UA 1412**

DRIP RAIL  
kg/m 0.131 P 59  
OAD 16 x 10

**UA 1413**

HEAVY BUS DRIP RAIL  
kg/m 0.431 P 100  
OAD 24 x 22

**UA 1414**

DRIP RAIL  
kg/m 0.146 P 74  
OAD 21.5 x 12.5

**UA 1608**

STD AWNING RAIL  
kg/m 0.221 P 96  
OAD 28 x 12.8 ID 12.8mm

**AUS 5287**

FLANGED SAIL TRACK  
kg/m 0.297 P 133  
OAD 45 x 11.61 ID 10mm

**UA 6074**

DBL SIDED RAIL  
kg/m 3.032 P 281  
OAD 62.7 x 36.4

**UA 1408****UA 1608****UA 1406****UA 6553****UA 1407****UA 1412****UA 1414****UA 1411****UA 1409****UA 1410****UA 1413****AUS 10054****AUS 5287****AUS 8362****AUS 10247****UA 6553**

FLANGED AWNING RAIL  
kg/m 0.496 P 192  
OAD 64.8 x 15.95 ID 13mm

**AUS 8362**

DBL ROPE RAIL  
kg/m 0.272 P 130  
OAD 27.5 x 12.2 ID 9.4mm

**AUS 10054**

SAIL TRACK  
kg/m 0.194 P 97  
OAD 28.5 x 11.25 ID 9.2mm

**UA 6074****AUS 10247**

SAIL TRACK  
kg/m 0.639 P 135  
OAD 46.7 x 13.2 ID 9.6mm



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**UA 1605**



**UA 1428**



**UA 1429**



**UA 1430**



**UA 1427**



**UA 1431**



**UA 1606**



**UA 1483**



**UA 1417**



**UA 1417**

RUB RAIL 31.6mm  
kg/m 0.271 P 104  
OAD 33 x 12 Infill 5206  
**ENDCAPS** available:  
Code BOAHHENDCAPS

**UA 1427**

RUB RAIL 32mm  
kg/m 0.126 P 89  
OAD 32 x 4.5 Infill 11 Serrated

**UA 1428**

RUB RAIL 17mm  
kg/m 0.106 P 47  
OAD 17 x 5 Infill 12

**UA 1429**

RUB RAIL 25mm  
kg/m 0.169 P 67  
OAD 25 x 5 Infill 12

**UA 1430**

RUB RAIL 31mm  
kg/m 0.120 P 82  
OAD 31 x 4 Infill 12

**UA 1431**

RUB RAIL 40mm  
kg/m 0.291 P 131  
OAD 40 x 9 Infills 111, 112  
**ENDCAPS** available:  
Code BOAENDCAP/40

**UA 1483**

RUB RAIL 25.2mm  
kg/m 0.220 P 76  
OAD 27 x 7 Infill 12

**UA 1605**

RUB RAIL 13mm  
kg/m 0.077 P 40  
OAD 13 x 4.5 Infill 11 Serrated

**UA 1606**

RUB RAIL 11.4mm  
kg/m 0.088 P 44  
OAD 13 x 7 Infill 11 Serrated

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**UA 1426**

HERZIM THRESHOLD 89.5mm  
kg/m 0.819 P 215  
OAD 89.5 x 9 Infill 12

**UA 1875**

BUFFER RAIL 30mm  
kg/m 0.427 P 118  
OAD 30 x 15 Infill 5205

**UA 2218**

BUS RUB RAIL 58mm Cover  
kg/m 0.402 P 144  
OAD 43.5 x 11.5 Infill 5246

**ENDCAPS** available:  
Code TRABUSENDCAP

**UA 2359**

BUS RUB RAIL 50mm  
kg/m 0.235 P 146  
OAD 50 x 10 Infill 4870

**UA 2583**

RUB RAIL 59.3mm  
kg/m 0.398 P 172  
OAD 59.3 x 10.47 Infill 37

**UA 2584**

RUB RAIL 97.8mm  
kg/m 0.615 P 276  
OAD 97.8 x 9.9 Infill 111

**UA 2359****UA 2218****UA 1875****UA 1426****UA 2583****UA 2584**

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**INFILLS SOLD SEPARATELY**

DIE No	DESCRIPTION	DIE No	DESCRIPTION
UA 1393	BUS WINDOW - BOTTOM	AUS 8600	RUNNING BOARD STEP
UA 1395	BUS WINDOW - TOP	AUS 8644	SIDE BOARD
UA 1396	CANT RAIL	AUS 8816	TRUCK ANGLE
UA 1397	EASYDEK SIDE CAP	AUS 8848	MOUNTING BLOCK
UA 1398	EASYDEK COAMING RAIL	AUS 8849	FRAME WALL
UA 1399	EASYDEK FLOORING	AUS 8850	FRAME SECTION
UA 1400	SIDE RAIL	AUS 10015	TRUCK DECK
UA 1402	PLANK	AUS 10283	CORNER CANT RAIL
UA 1403	PLANK	AUS 10369	DECK MIDDLE PLANK
UA 1404	ROLLER SHUTTER	AUS 10370	DECK STARTER PLANK
UA 1405	HOLLOW PLANK	AUS 10371	REAR COAMING
UA 1486	COAMING RAIL	AUS 10372	SIDE COAMING
UA 1494	TRAY SIDE CAP		
UA 1509	CANT RAIL		
UA 1510	SCALLOP PLANK		
UA 1511	CANT RAIL		
UA 1573	ROLLER GLIDE CHANNEL		
UA 1581	TRUCK SIDE BOARD		
UA 1583	CANT RAIL		
UA 1584	TRUCK SIDE RAIL		
UA 2424	SHUTTER CONNECTOR		
UA 2426	ROLLER SHUTTER		
UA 2463	CHANNEL		
UA 2741	CANT RAIL		
UA 3328	COAMING RAIL		
UA 3493	DECKING		
AUS 4141	DECKING		
UA 4394	CHASSIS RUNNER CAP		
UA 4395	CHASSIS RUNNER		
UA 4626	GRATE Punched		
UA 4711	TOP HAT		
UA 5006	COAMING RAIL		
UA 5183	SIDE BOARD		
AUS 5250	TRUCK FLAP RUNNER		
UA 5275	SUB FRAME		
UA 5814	TIPPER SUB FRAME		
UA 5972	BUS SECTION		
UA 6034	BUS SECTION		
UA 6153	SIDE RAIL		
AUS 6244	RUB RAIL		
UA 6388	SIDE RAIL		
UA 6567	SIDE RAIL		
UA 6611	DECKING		
UA 6784	P-SECTION		
UA 6892	CHANNEL		

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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**UA 1398**

EASYDEK COAMING RAIL  
 kg/m 1.243 P 250  
 OAD 63 x 33.5 fits 1399

**UA 1400**

SIDE RAIL  
 kg/m 1.670 P 490  
 OAD 102 x 61

**UA 1486**

COAMING RAIL  
 kg/m 2.432 P 419  
 OAD 98.3 x 60.3

**UA 3328**

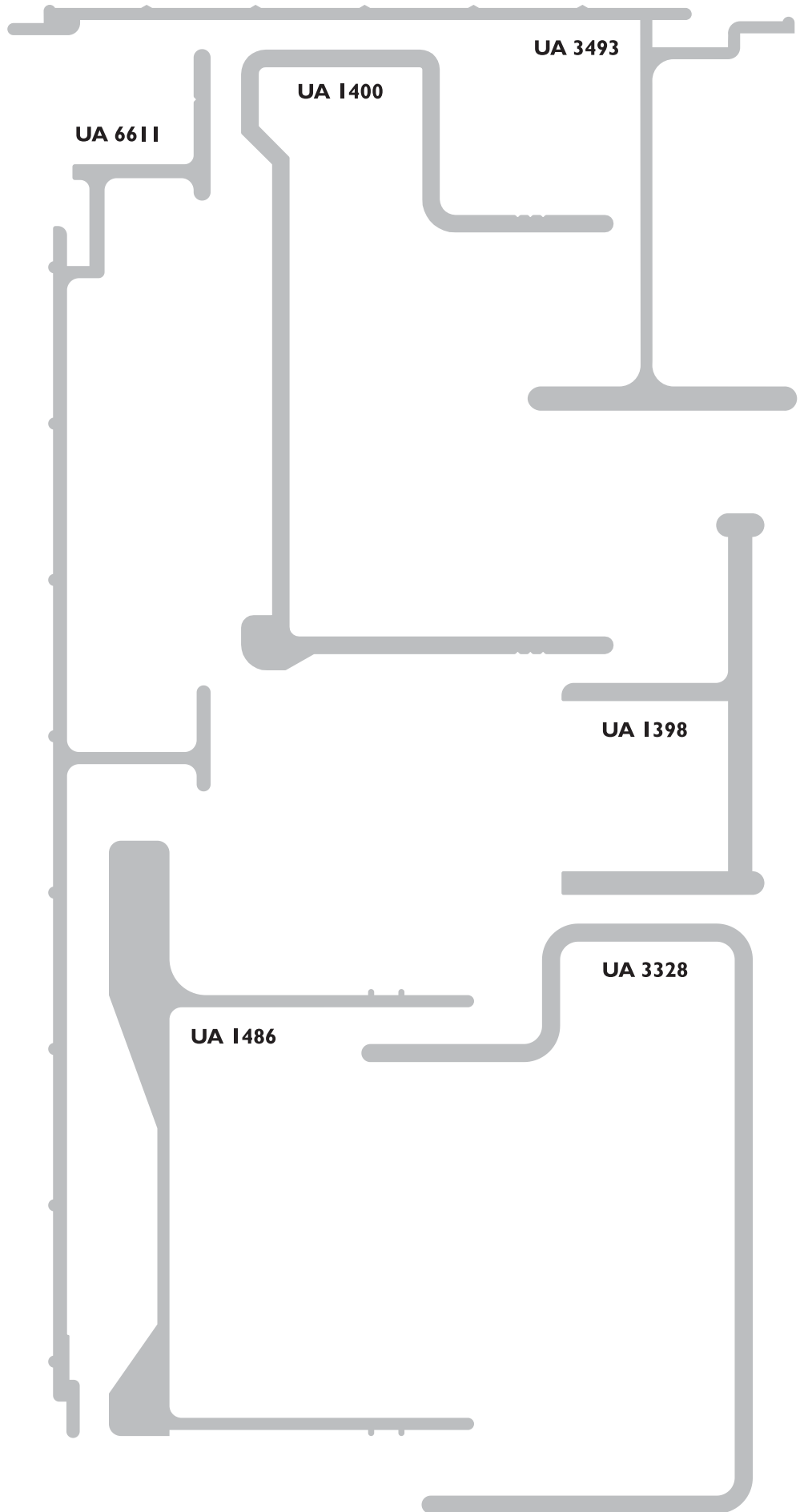
COAMING RAIL  
 kg/m 1.811 P 452  
 OAD 98 x 65

**UA 3493**

DECKING  
 kg/m 1.667 P 491  
 OAD 130 x 66.5

**UA 6611**

DECKING  
 kg/m 1.971 P 611  
 OAD 229.2 x 26



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**UA 4626**



**UA 1399**



**UA 1405**



**UA 1397**

EASYDEK SIDE CAP  
kg/m 0.521 P 169  
OAD 45 x 22

**UA 1399**

EASYDEK FLOORING  
kg/m 1.621 P 581  
OAD 179.5 x 28.5

**UA 1405**

HOLLOW PLANK  
kg/m 1.409 P 268  
OAD 93 x 25.5

**UA 4626**

GRATE Punched  
kg/m 2.788 P 840  
OAD 228.6 x 26

**UA 1397**



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**UA 1494**

TRAY SIDE CAP  
kg/m 1.202 P 287  
OAD 34.93 x 63.5

**UA 1581**

TRUCK SIDE BOARD  
kg/m 2.172 P 647  
OAD 225 x 25

**UA 1584**

TRUCK SIDE RAIL  
kg/m 1.521 P 455  
OAD 136 x 50

**AUS 5250**

TRUCK FLAP RUNNER  
kg/m 2.066 P 435  
OAD 75.1 x 50.5

**AUS 6244**

RUB RAIL  
kg/m 1.440 P 405  
OAD 145.2 x 14

**AUS 6244****UA 1584****UA 1581****UA 1494****AUS 5250**

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**UA 1510**



**UA 5183**



**UA 1402**



**UA 1403**



**UA 6567**



**UA 1402**

PLANK  
kg/m 2.060 P 678  
OAD 226 x 22

**UA 1403**

PLANK  
kg/m 1.530 P 572  
OAD 229.5 x 12.5

**UA 1510**

SCALLOP PLANK  
kg/m 1.409 P 421  
OAD 190.5 x 9.53

**UA 5183**

SIDE BOARD  
kg/m 2.461 P 732  
OAD 250 x 33

**UA 6567**

SIDE RAIL  
kg/m 0.860 P 163  
OAD 75 x 15

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**UA 1396**

CANT RAIL  
 kg/m 1.966 P 558  
 OAD 152.5 x 79.4  
 Cast Corner UC1396

**UA 1509**

CANT with Drip Rail  
 kg/m 2.401 P 646  
 OAD 153.97 x 136.62

**UA 1511**

CANT RAIL  
 kg/m 0.629 P 208  
 OAD 73.28 x 56.55

**UA 1583**

CANT with Drip Rail  
 kg/m 1.615 P 479  
 OAD 109.33 x 90

**UA 2741**

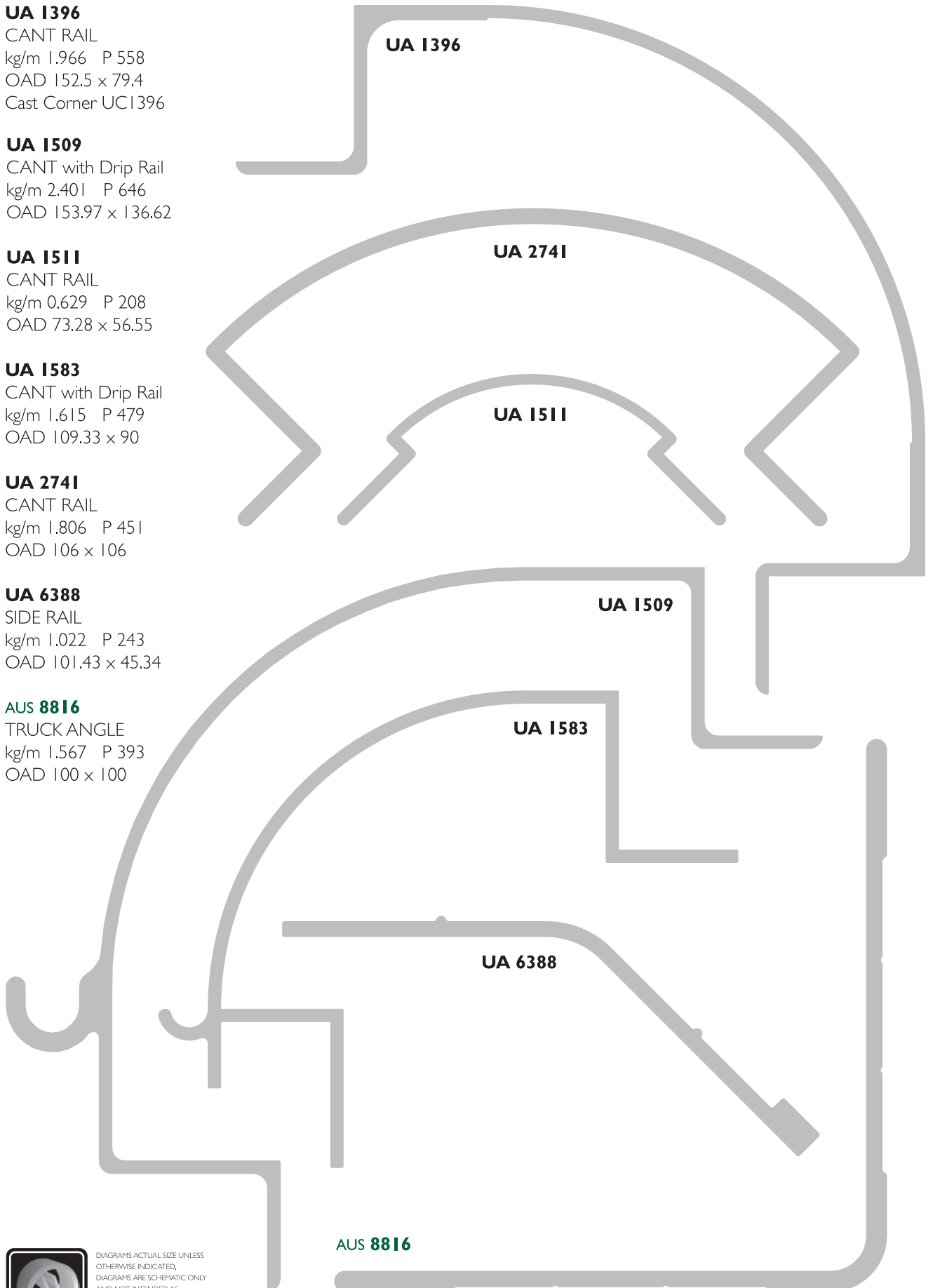
CANT RAIL  
 kg/m 1.806 P 451  
 OAD 106 x 106

**UA 6388**

SIDE RAIL  
 kg/m 1.022 P 243  
 OAD 101.43 x 45.34

**AUS 8816**

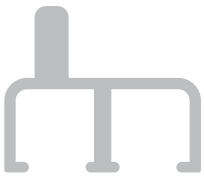
TRUCK ANGLE  
 kg/m 1.567 P 393  
 OAD 100 x 100



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UA 1395



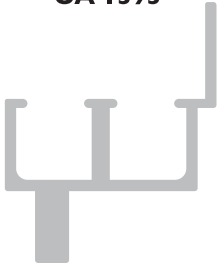
UA 1404



UA 2424



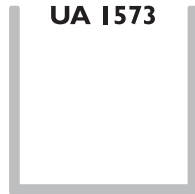
UA 1393



UA 2426



UA 1573

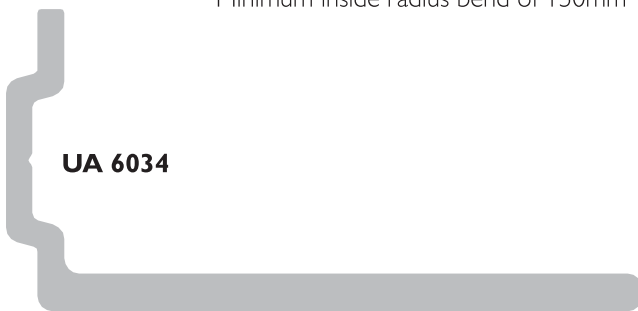


**PLASTIC ROLLER  
DOOR GLIDE**  
Code: TRAROLLDORGL

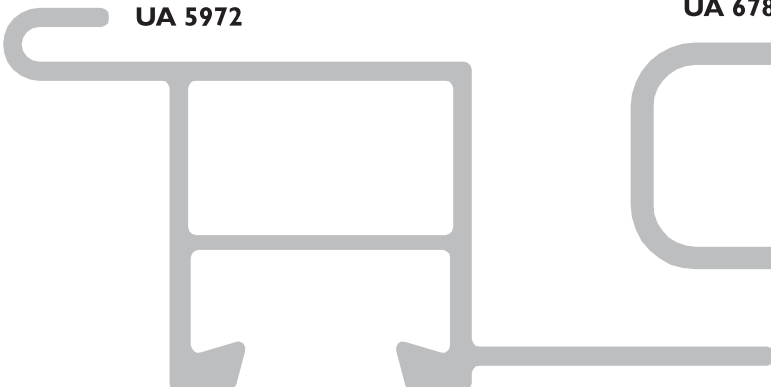


Fits 1404  
Each end of every second shutter  
Minimum inside radius bend of 150mm

UA 6034



UA 5972



UA 6784



**UA 1393**  
BUS WINDOW Bottom  
kg/m 0.457 P 175  
OAD 34.5 x 28

**UA 1395**  
BUS WINDOW Top  
kg/m 0.387 P 144  
OAD 26 x 22

**UA 1404**  
ROLLER SHUTTER  
kg/m 0.394 P 162  
OAD 58.85 x 11.3

**UA 1573**  
ROLLER GLIDE CHANNEL  
kg/m 0.273 P 148  
OAD 25 x 25

**UA 2424**  
SHUTTER CONNECTOR  
kg/m 0.334 P 134  
OAD 27.44 x 16.5

**UA 2426**  
ROLLER SHUTTER  
kg/m 0.966 P 274  
OAD 88 x 17.5

**UA 5972**  
BUS SECTION  
kg/m 1.774 P 382  
OAD 102 x 50.6

**UA 6034**  
BUS SECTION  
kg/m 1.462 P 247  
OAD 84.2 x 40

**UA 6784**  
P-SECTION  
kg/m 1.062 P 169  
OAD 60 x 30

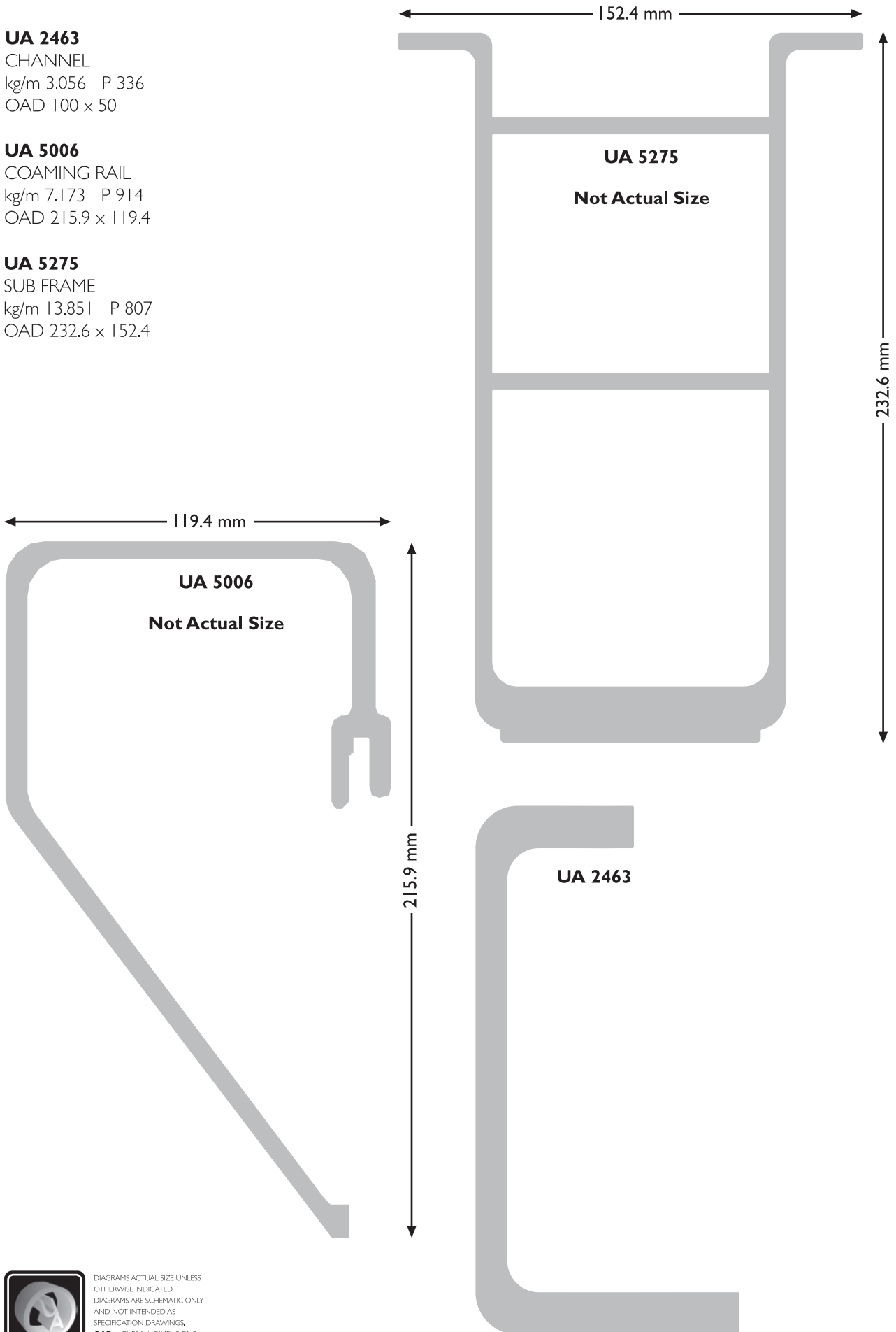
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**UA 2463**  
CHANNEL  
kg/m 3.056 P 336  
OAD 100 x 50

**UA 5006**  
COAMING RAIL  
kg/m 7.173 P 914  
OAD 215.9 x 119.4

**UA 5275**  
SUB FRAME  
kg/m 13.851 P 807  
OAD 232.6 x 152.4



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**UA 6153**

**UA 4394**

CHASSIS RUNNER CAP  
kg/m 4.599 P 349  
OAD 90 x 50

**UA 4395**

CHASSIS RUNNER  
kg/m 6.132 P 473  
OAD 130 x 110

**UA 6153**

SIDE RAIL  
kg/m 3.318 P 445  
OAD 125 x 125

**UA 4711**

TOP HAT  
kg/m 1.389 P 366  
OAD 140 x 34.9

**UA 4394**

**UA 4395**

**UA 4711**

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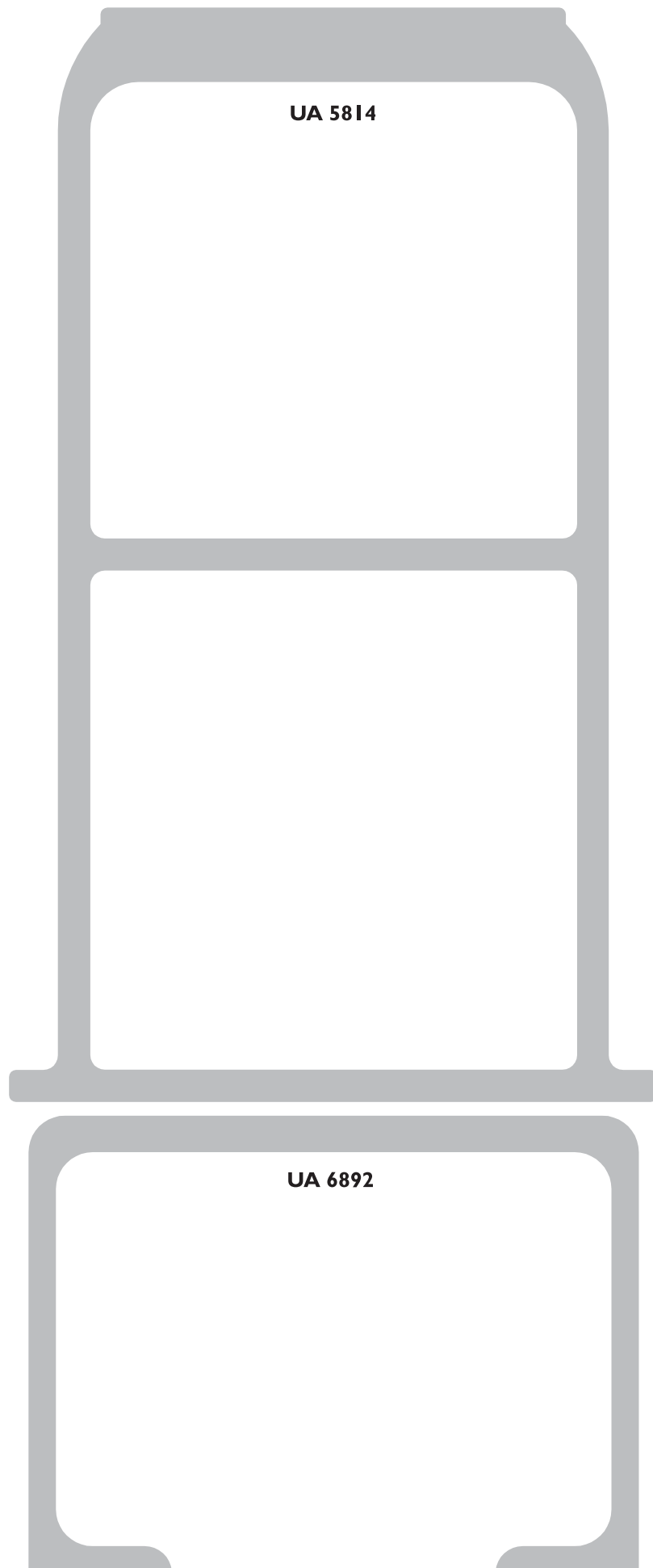


**UA 5814**

TIPPER SUB FRAME  
 kg/m 9.596 P 555  
 OAD 179 x 106

**UA 6892**

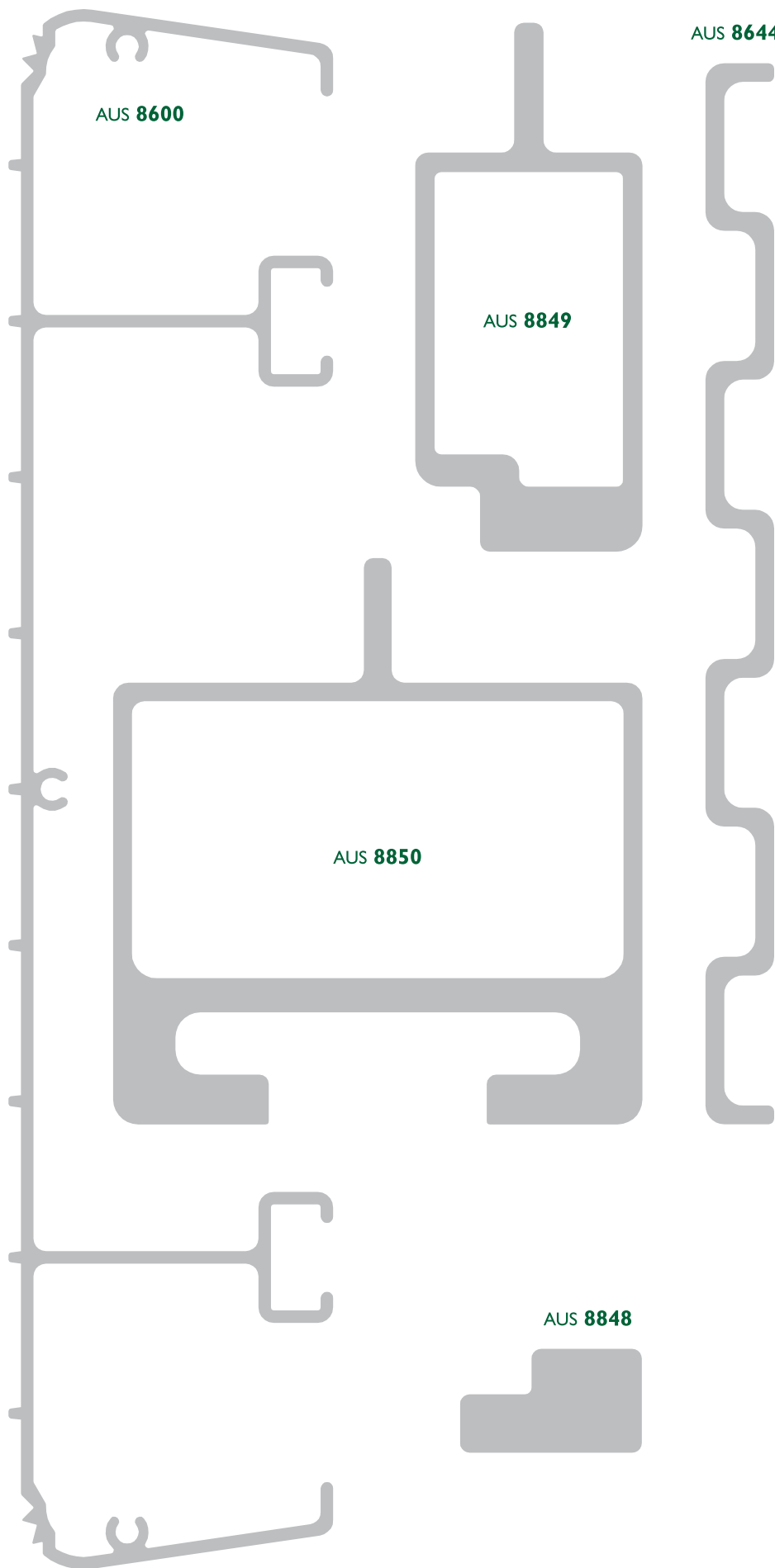
CHANNEL  
 kg/m 3.777 P 544  
 OAD 100 x 75



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 OTHERWISE INDICATED.  
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**AUS 8600**  
 RUNNING BOARD STEP  
 kg/m 3,067 P 1109  
 OAD 250 x 50

**AUS 8644**  
 SIDE BOARD  
 kg/m 1,894 P 437  
 OAD 170 x 11

**AUS 8848**  
 MOUNTING BLOCK  
 kg/m 0,996 P 85  
 OAD 28 x 16

**AUS 8849**  
 FRAME WALL  
 kg/m 2,142 P 224  
 OAD 81,5 x 35

**AUS 8850**  
 FRAME SECTION  
 kg/m 4,568 P 431  
 OAD 91 x 85

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**AUS I0369**

DECK MIDDLE PLANK  
 kg/m 1.936 P 636  
 OAD 192.85 x 40

**AUS I0370**

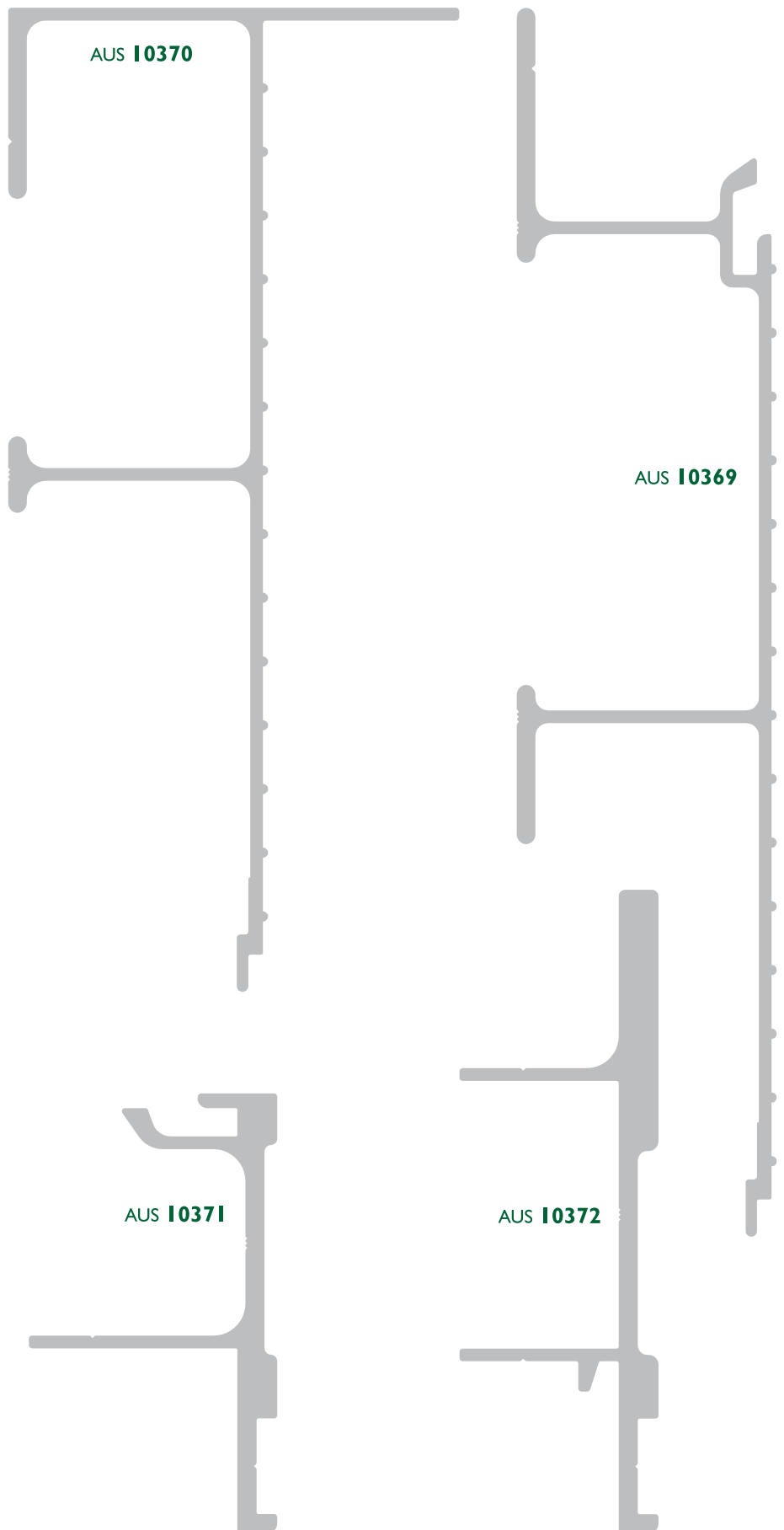
DECK STARTER PLANK  
 kg/m 1.789 P 607  
 OAD 154.45 x 70.8

**AUS I0371**

REAR COAMING  
 kg/m 1.120 P 274  
 OAD 69 x 39

**AUS I0372**

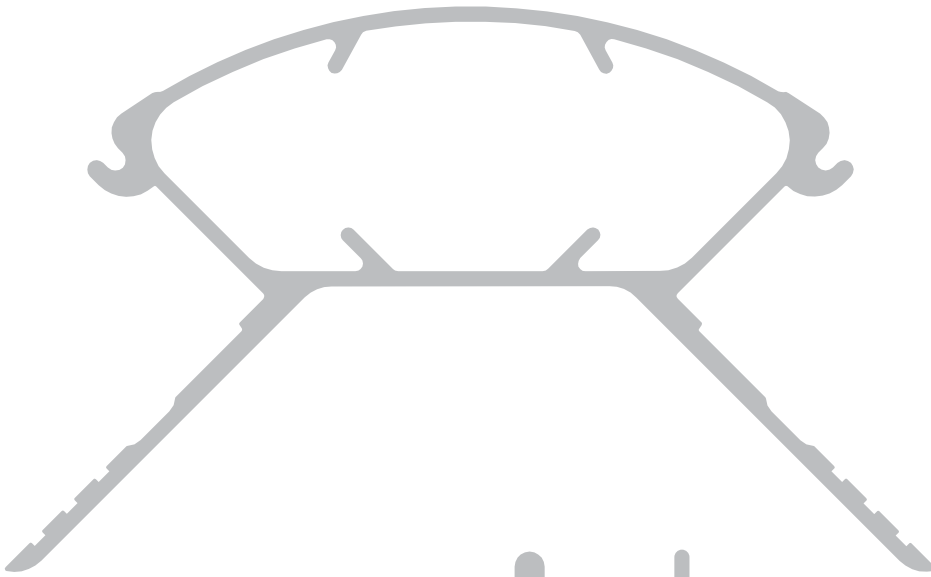
SIDE COAMING  
 kg/m 1.603 P 329  
 OAD 101 x 31.25



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AUS 10283



AUS 4141

DECKING

kg/m 1.617 P 571

OAD 171.6 x 32

AUS 10015

TRUCK DECK

kg/m 1.645 P 478

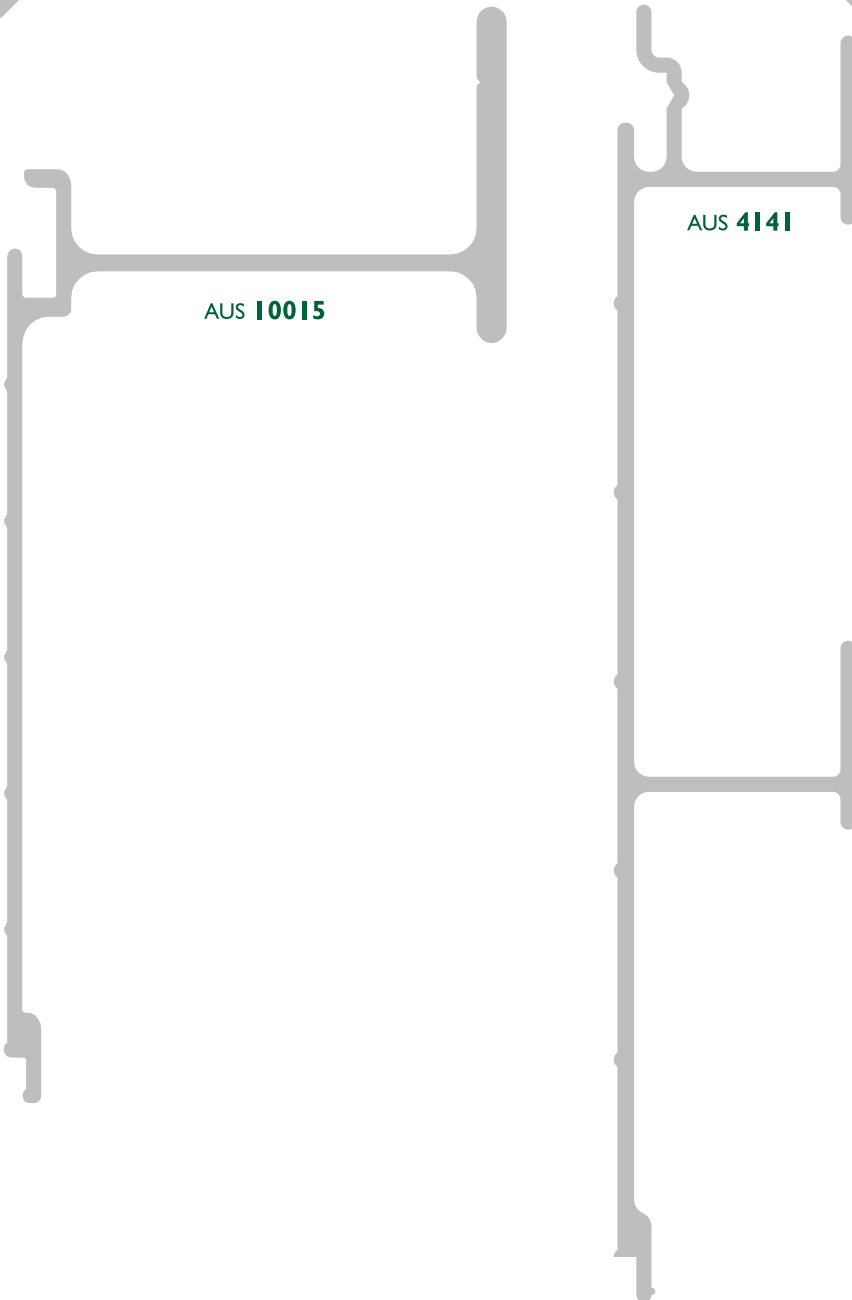
OAD 145 x 66.5

AUS 10283

CORNER CANT RAIL

kg/m 2.315 P 454

OAD 118.9 x 118.9



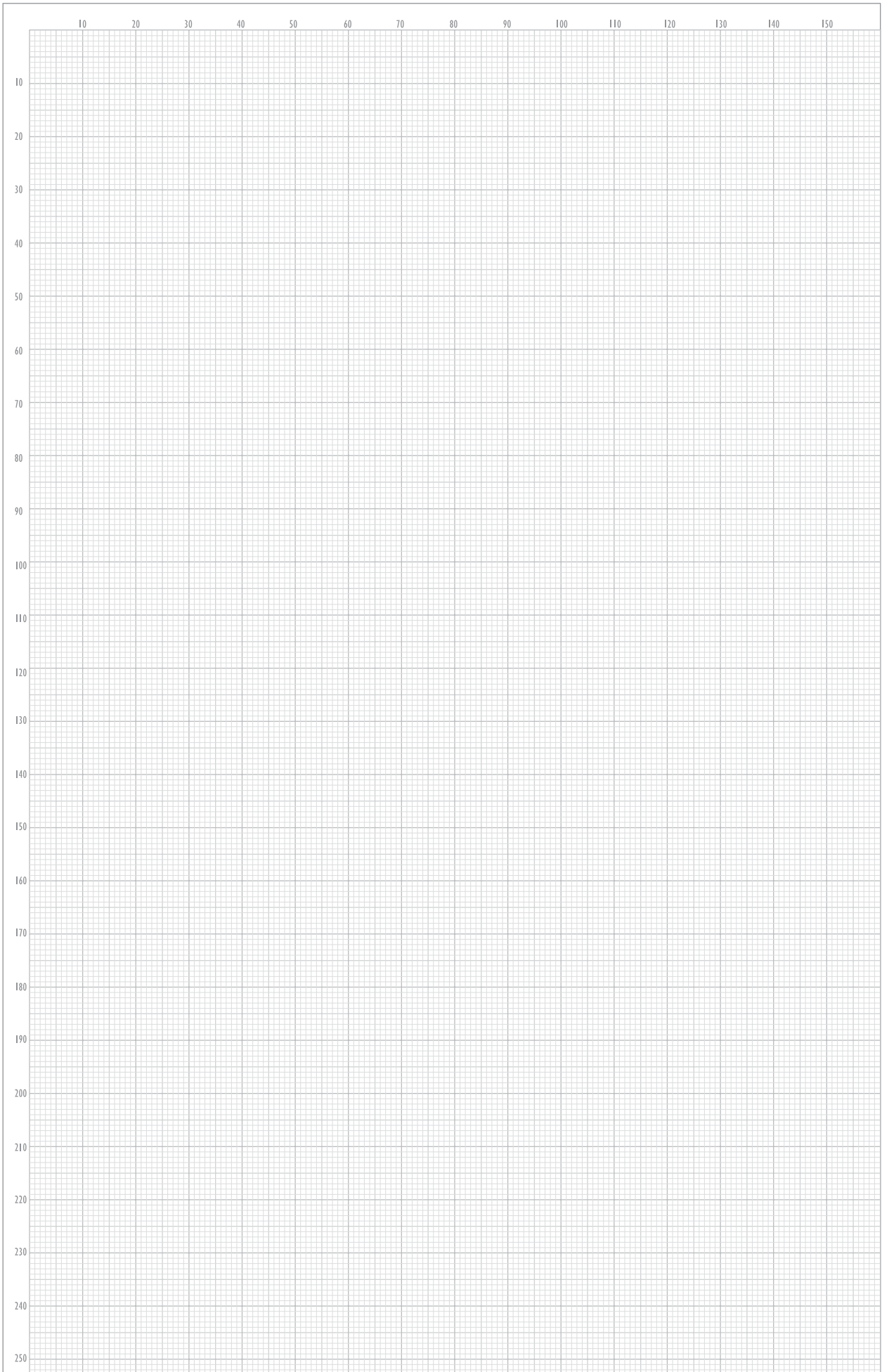
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DIE No	DESCRIPTION
UA 1623	1.6mm CAPPING
UA 1624	1.6mm JOINTER
UA 1451	3mm CAPPING
UA 1452	3mm JOINTER
UA 1453	3mm INT CORNER
UA 1454	3mm EXT CORNER
UA 3871	4.5mm AQUAPANEL CAP
UA 3872	4.5mm AQUAPANEL JOINTER
UA 3874	4.5mm AQUAPANEL INT JOINTER
UA 3873	4.5mm AQUAPANEL EXT JOINTER
UA 3875	4.5mm AQUAPANEL SCOTIA
UA 1455	5mm CAPPING
UA 1456	5mm JOINTER
UA 1457	5mm INT CORNER
UA 1458	5mm EXT CORNER
UA 1461	6.5mm CAPPING
UA 1460	6.5mm JOINTER
UA 1622	6.5mm INT CORNER
UA 1459	6.5mm EXT CORNER
UA 4405	10mm CAPPING
UA 4406	10mm JOINTER
UA 4408	10mm INT CORNER
UA 4407	10mm EXT CORNER
UA 3467	12mm JOINTER OFFSET
UA 4412	13mm CAPPING
UA 7829	13mm JOINTER
UA 7827	13mm INT CORNER
UA 7828	13mm EXT CORNER
UA 4413	13mm JOINTER
UA 4414	13mm SERRATED CAP
UA 4409	13mm SERRATED JOINTER
UA 4411	13mm SERRATED INT CORNER
UA 4410	13mm SERRATED EXT CORNER
UA 1627	14.5mm CAPPING
UA 1628	14.5mm JOINTER
UA 2669	16mm JOINTER
UA 3894	16mm JOINTER
UA 3403	18mm CAPPING
UA 1629	18.5mm JOINTER
AUS 8954	19mm CAPPING
UA 1922	20mm CAPPING
UA 3404	22mm CAPPING
UA 6887	23mm EXT CORNER
UA 1472	VARIABLE JOINTER
UA 1473	PARTITION JOINTER

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**UA 1623**

1.6mm CAPPING  
kg/m 0.083 P 54  
OAD 18 x 4.6

**UA 1623****UA 1451****UA 1451**

3mm CAPPING  
kg/m 0.088 P 68  
OAD 21 x 6

**UA 3871****UA 1455****UA 3871**

4.5mm AQUAPANEL CAP  
kg/m 0.115 P 70  
OAD 19 x 7.4

**UA 1461****UA 4405****UA 4412****UA 4414****UA 1455**

5mm CAPPING  
kg/m 0.094 P 71  
OAD 21 x 8

**UA 1461**

6.5mm CAPPING  
kg/m 0.099 P 75  
OAD 21 x 9.5

**AUS 8954****UA 4405**

10mm CAPPING  
kg/m 0.117 P 89  
OAD 23 x 13.4

**UA 1627****UA 3403****UA 4412**

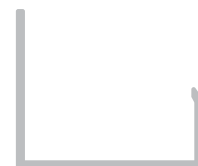
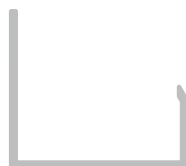
13mm CAPPING  
kg/m 0.150 P 95  
OAD 21.2 x 16.8

**UA 4414**

13mm SERRATED CAP  
kg/m 0.224 P 125  
OAD 33 x 17.78

**UA 1627**

14.5mm CAPPING  
kg/m 0.153 P 96  
OAD 21.2 x 18

**UA 3403**

18mm CAPPING  
kg/m 0.163 P103  
OAD 21.2 x 20.8

**AUS 8954**

19mm CAPPING  
kg/m 0.680 P173  
OAD 40 x 25



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**UA 1922**

20mm CAPPING  
kg/m 0.172 P 109  
OAD 23.8 x 21.2

**UA 3404**

22mm CAPPING  
kg/m 0.176 P 111  
OAD 24.8 x 21.2

**UA 1624**



**UA 1452**



**UA 3872**



**UA 1456**



**UA 1460**



**UA 1624**

1.6mm JOINTER  
kg/m 0.131 P 84  
OAD 27 x 4.6

**UA 1452**

3mm JOINTER  
kg/m 0.117 P 88  
OAD 27 x 6.5

**UA 3872**

4.5mm AQUAPANEL JOINTER  
kg/m 0.187 P 124  
OAD 36 x 7.1

**UA 1456**

5mm JOINTER  
kg/m 0.120 P 91  
OAD 27 x 8

**UA 1460**

6.5mm JOINTER  
kg/m 0.134 P 97  
OAD 27 x 9.5

**UA 4406**

10mm JOINTER  
kg/m 0.168 P 121  
OAD 34 x 13.4

**UA 3467**

12mm JOINTER OFFSET  
kg/m 0.376 P 202  
OAD 70 x 16.3

**UA 7829**

13mm JOINTER  
kg/m 0.177 P 127  
OAD 34 x 16.4

**UA 4413**

13mm JOINTER  
kg/m 0.191 P 120  
OAD 30 x 16.4

**UA 4409**

13mm SERRATED JOINTER  
kg/m 0.413 P 212  
OAD 65 x 17.49

**UA 1628**

14.5mm JOINTER  
kg/m 0.276 P 173  
OAD 50 x 18

**UA 4406**



**UA 7829**



**UA 4413**



**UA 4409**



**UA 1628**



**UA 1629**



**UA 3467**



**UA 2669**

16mm JOINTER  
kg/m 0.308 P 171  
OAD 30 x 22.1

**UA 3894**

16mm JOINTER  
kg/m 0.444 P 193  
OAD 40 x 19.6

**UA 1629**

18.5mm JOINTER  
kg/m 0.275 P 165  
OAD 44 x 22

**UA 1472**

VARIABLE JOINTER  
kg/m 0.099 P 68  
OAD 25 x 4.5 Infill 11

**UA 1473**

PARTITION JOINTER  
kg/m 0.416 P 124  
OAD 46 x 9 Infill 633

**UA 3894**



**UA 2669**



**UA 1473**



**UA 1472**



**INFILLS SOLD SEPARATELY**

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**UA 1453**

3mm INT CORNER  
kg/m 0.143 P 108  
OAD 23 x 17.5

**UA 1453****UA 3874****UA 3874**

4.5mm INT AQUAPANEL  
kg/m 0.215 P 134  
OAD 24.1 x 24.1

**UA 3875**

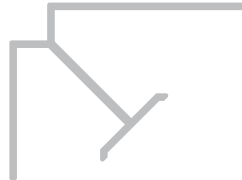
4.5mm AQUAPANEL SCOTIA  
kg/m 0.138 P 86  
OAD 18.4 x 15.1

**UA 1457****UA 1622****UA 1457**

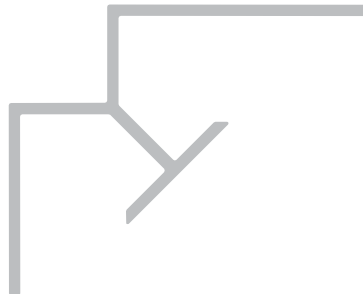
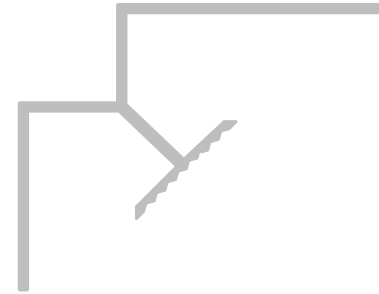
5mm INT CORNER  
kg/m 0.147 P 111  
OAD 23.5 x 18

**UA 1622**

6.5mm INT CORNER  
kg/m 0.172 P 110  
OAD 24 x 19

**UA 4408****UA 4408**

10mm INT CORNER  
kg/m 0.224 P 161  
OAD 31.5 x 23.5

**UA 7827****UA 4411****UA 7827**

13mm INT CORNER  
kg/m 0.464 P 228  
OAD 48 x 38.5

**UA 4411**

13mm INT SERRATED  
kg/m 0.453 P 230  
OAD 48 x 38.5

**UA 3875**

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**P** = EXT PERIPHERY

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**UA 1454**



**UA 3873**



**UA 1454**

3mm EXT CORNER  
kg/m 0.129 P 97  
OAD 19 x 16.6

**UA 3873**

4.5mm EXT AQUAPANEL  
kg/m 0.216 P 138  
OAD 19.05 x 18.5

**UA 1458**



**UA 1459**



**UA 4407**



**UA 1458**

5mm EXT CORNER  
kg/m 0.140 P 105  
OAD 19 x 18.8

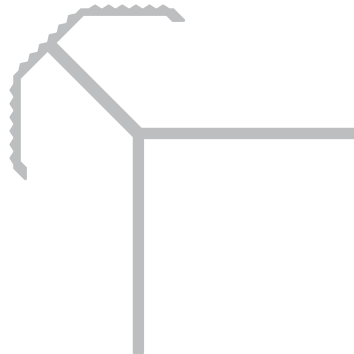
**UA 1459**

6.5mm EXT CORNER  
kg/m 0.148 P 108  
OAD 20.35 x 18.9

**UA 7828**



**UA 4410**



**UA 4407**

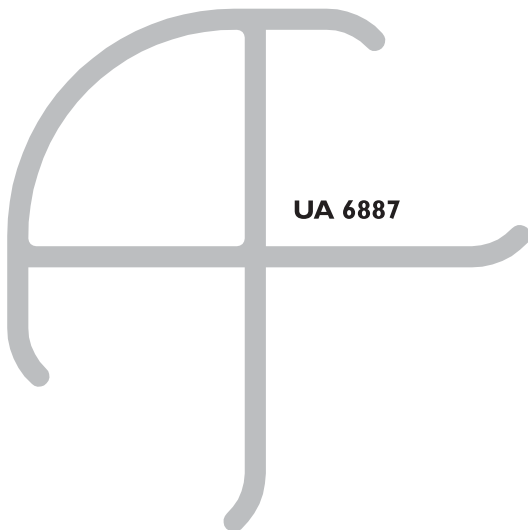
10mm EXT CORNER  
kg/m 0.246 P 178  
OAD 30.3 x 29

**UA 7828**

13mm EXT CORNER  
kg/m 0.465 P 229  
OAD 42.9 x 38.7

**UA 4410**

13mm EXT SERRATED  
kg/m 0.437 P 232  
OAD 42.18 x 38.70



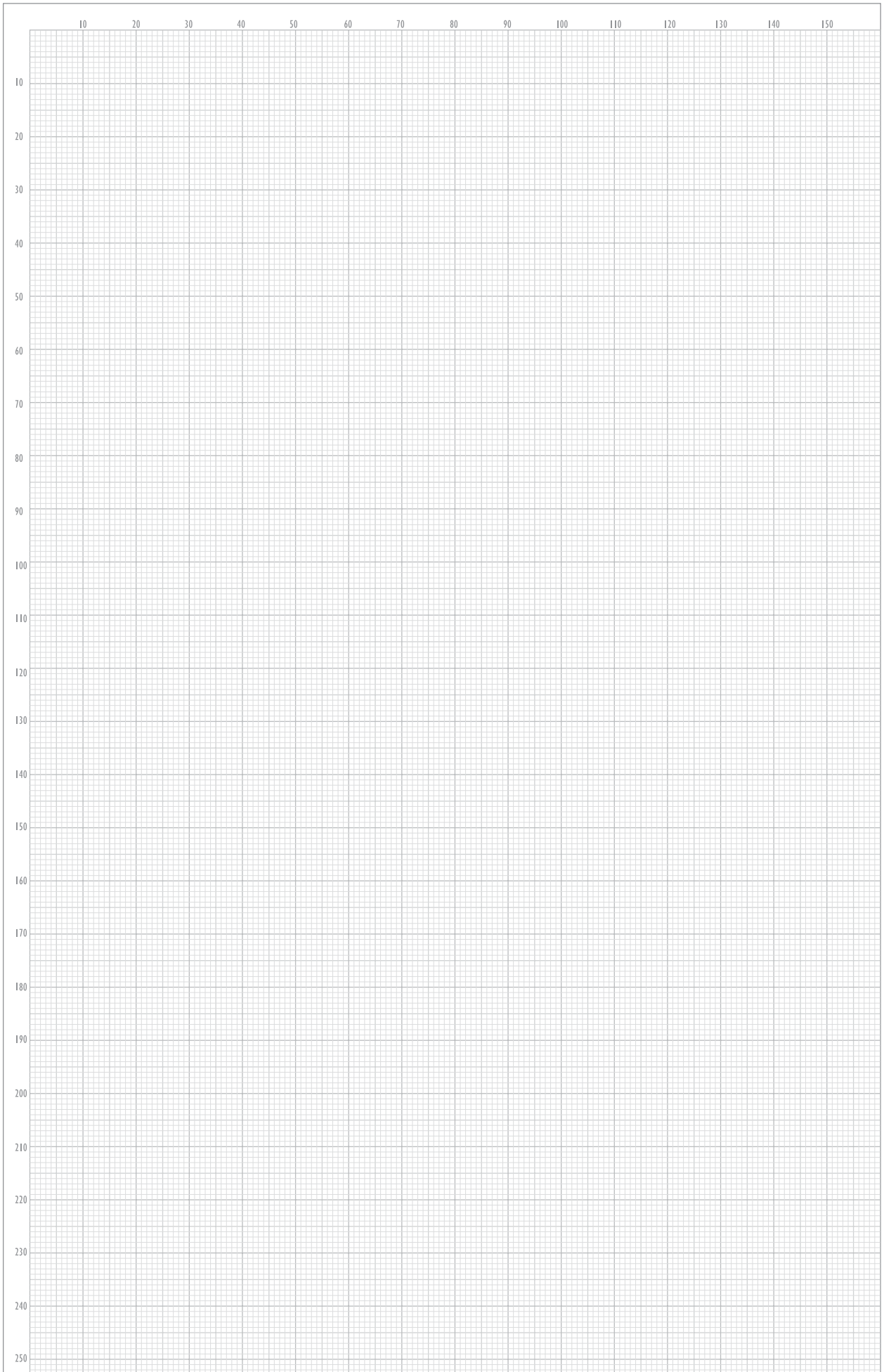
**UA 6887**

**UA 6887**

23mm EXT CORNER  
kg/m 1.641 P 329  
OAD 69.2 x 69.2

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
OAD = OVERALL DIMENSIONS  
P = EXT PERIPHERY  
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DIE No	DESCRIPTION
UA 1310	WOOLPILE DOOR STOP
UA 1374	SECURAMESH CHANNEL
UA 1375	SECURAMESH FIX FRAME
UA 1376	SECURAMESH FIX FRAME
UA 1377	DOOR FRAME
UA 1379	STAKE
UA 1387	MESH WINDOW FRAME
UA 1609	ADJUSTER CHANNEL
UA 1649	SEC JAMB FIX
UA 1738	DOOR FRAME
UA 1864	STAKE
UA 1942	SLIDING TRACK
UA 1943	SLIDING TRACK
UA 2506	WINDOW FRAME
UA 2985	JAMB EXTENSION
UA 3592	MESH WINDOW FRAME
UA 3614	ADJUSTER CHANNEL
UA 3929	JOINTER
UA 4077	SECURAMESH CHANNEL
UA 4110	DOOR TRACK
UA 4111	TRACK FRAME
UA 4112	DOOR FRAME
AUS 4314	STAKE
UA 5563	STAKE
UA 5632	JAMB EXTENSION
UA 5655	DOOR FRAME
UA 5971	STAKE
AUS 6463	STAKE
AUS 6487	ADAPTOR
AUS 6518	WINDOW FRAME
AUS 6546	DOOR FRAME
AUS 6547	WINDOW FRAME
UA 6836	DOOR TRACK
UA 7007	SECURITY JOINTER
UA 7008	SECURITY FRAME
UA 7710	SEC DOUBLE SLIDING TRACK
UA 7715	SEC DOUBLE DOOR CATCH
UA 8370	STAKE
AUS 10031	SECURITY SCREEN FRAME
AUS 10039	DOOR FRAME
UA 10061	ULLTRASAFE DOOR FRAME
UA 10062	ULLTRASAFE DOOR BEAD
UA 10063	ULLTRASAFE WINDOW FRAME
UA 10064	ULLTRASAFE WINDOW BEAD
AUS 10065	DOOR FRAME

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**UA 1374**  
 SECURAMESH CHANNEL  
 kg/m 0.151 P 76  
 OAD 15 x 10

**UA 1375**  
 SECURAMESH FIX FRAME  
 kg/m 0.269 P 142  
 OAD 38 x 10

**UA 1376**  
 SECURAMESH FIX FRAME  
 kg/m 0.257 P 129  
 OAD 28 x 10,9

**UA 1377**  
 DOOR FRAME  
 kg/m 0.715 P 240  
 OAD 72 x 20

**UA 1387**  
 MESH WINDOW FRAME  
 kg/m 0.283 P 126  
 OAD 33.5 x 10,5

**UA 1609**  
 ADJUSTER CHANNEL  
 kg/m 0.149 P 85  
 OAD 14.5 x 14.5

**UA 1738**  
 DOOR FRAME  
 kg/m 0.581 P 237  
 OAD 69.5 x 20

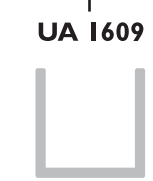
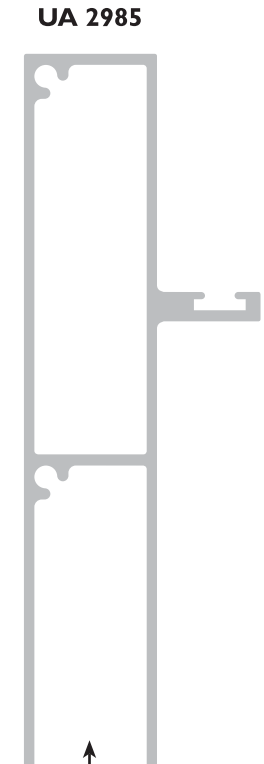
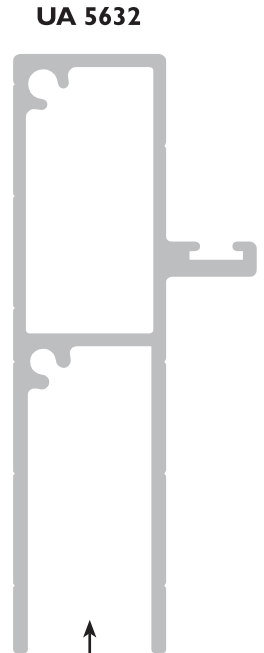
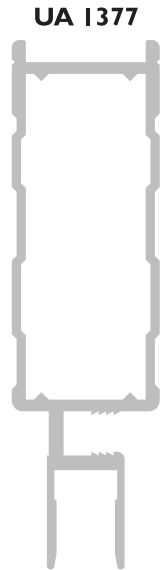
**UA 2985**  
 JAMB EXTENSION  
 kg/m 1.011 P 353  
 OAD 97 x 32

**UA 3614**  
 ADJUSTER CHANNEL  
 kg/m 0.196 P 94  
 OAD 16.2 x 16.2

**UA 3929**  
 JOINTER  
 kg/m 0.301 P 182  
 OAD 40 x 10

**UA 4077**  
 SECURAMESH CHANNEL  
 kg/m 0.317 P 99  
 OAD 20 x 12

**UA 4112**  
 DOOR FRAME  
 kg/m 0.681 P 233  
 OAD 74.1 x 20



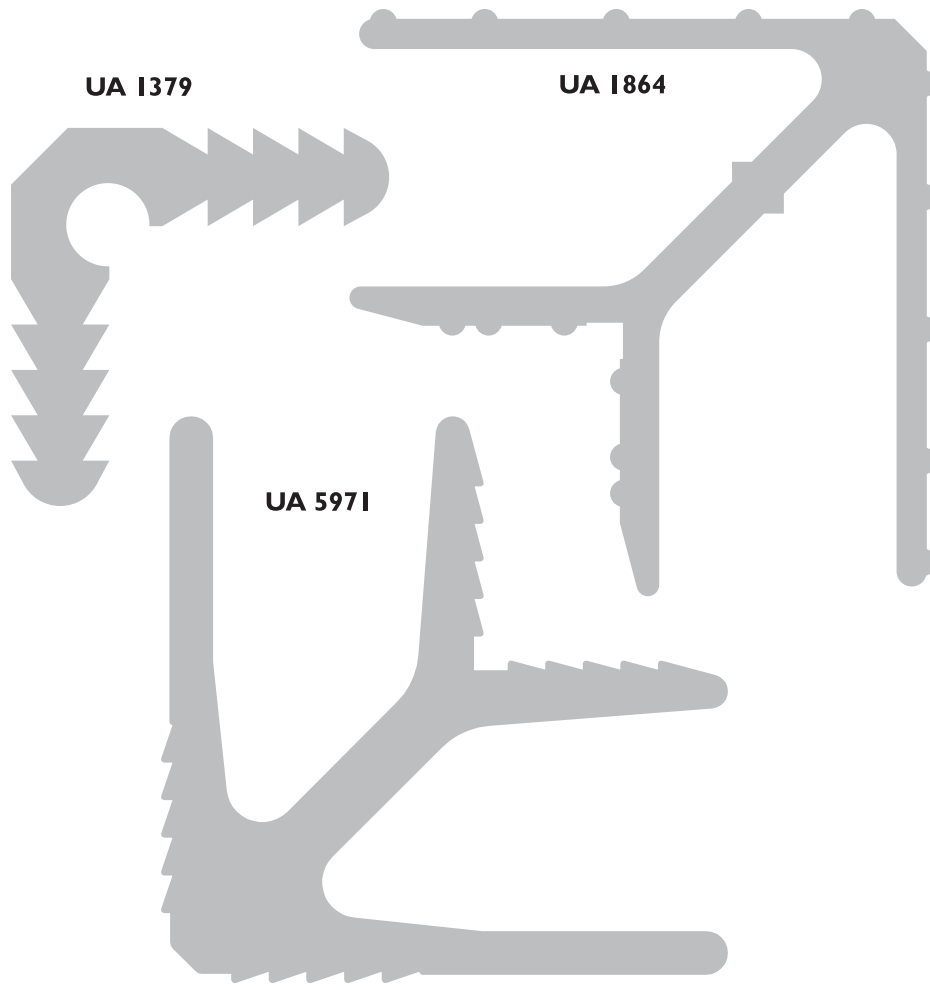
**UA 5632**  
 JAMB EXTENSION  
 kg/m 1.050 P 318  
 OAD 79 x 32

**UA 5655**  
 DOOR FRAME  
 kg/m 0.763 P 230  
 OAD 71.6 x 19



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**UA 1310**  
WOOLPILE DOOR STOP  
kg/m 0.145 P 75  
OAD 18 x 13

**UA 1379**  
STAKE ( blue ) fits 1387,1649  
STAKE ( red ) fits 3592  
STAKE ( white ) fits 7008  
kg/m 2.227 P 264  
OAD 50 x 50

**UA 1649**  
SEC JAMB FIX  
kg/m 0.399 P 189  
OAD 42 x 33.5

**UA 1864**  
STAKE ( black ) fits 1377, 1738, 4112  
kg/m 3.536 P 527  
OAD 104.5 x 77.5

**UA 2506**  
WINDOW FRAME  
kg/m 0.454 P 217  
OAD 42.2 x 12.7

**UA 3592**  
MESH WINDOW FRAME  
kg/m 0.371 P 146  
OAD 36.7 x 10.7

**UA 5971**  
STAKE ( orange ) fits 5655  
kg/m 4.524 P 497  
OAD 74.9 x 74.9

**UA 7007**  
SECURITY JOINTER  
kg/m 0.473 P 213  
OAD 47 x 10.8

**UA 7008**  
SECURITY FRAME  
kg/m 0.444 P 144  
OAD 40.25 x 10.8

**UA 3592**



**UA 2506**



**UA 1649**



**UA 7008**



**UA 7007**



**UA 1310**



DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

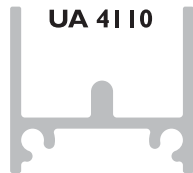
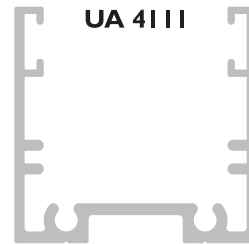
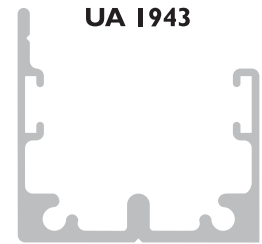
**OAD** = OVERALL DIMENSIONS  
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**UA 1942**

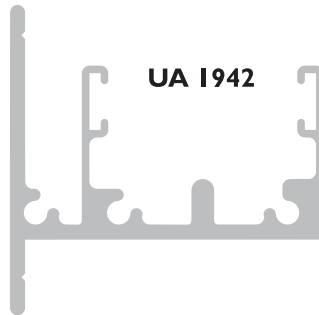
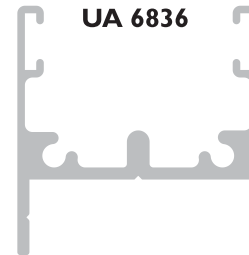
SEC SLIDING TRACK  
kg/m 0.773 P 298  
OAD 41.5 x 41

**UA 4110****UA 4111****UA 1943****UA 1943**

SEC SLIDING TRACK  
kg/m 0.468 P 212  
OAD 32 x 31

**UA 4110**

DOOR TRACK  
kg/m 0.349 P 155  
OAD 25 x 22.5

**UA 1942****UA 6836****UA 4111**

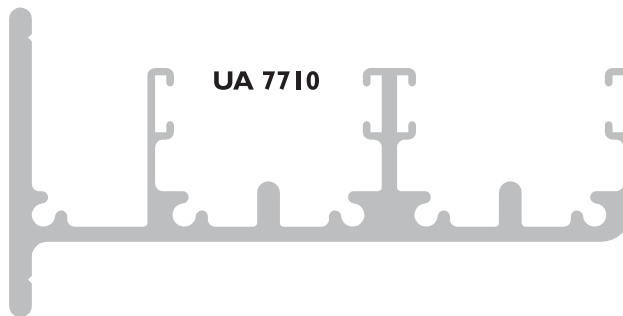
TRACK FRAME  
kg/m 0.537 P 265  
OAD 33 x 32

**UA 6836**

DOOR TRACK  
kg/m 0.477 P 216  
OAD 33 x 32

**UA 7710**

SEC DOUBLE SLIDING TRACK  
kg/m 1.373 P 465  
OAD 82.3 x 41

**UA 7710****UA 7715****UA 7715**

SEC DOUBLE DOOR CATCH  
kg/m 0.103 P 58  
OAD 21.8 x 8

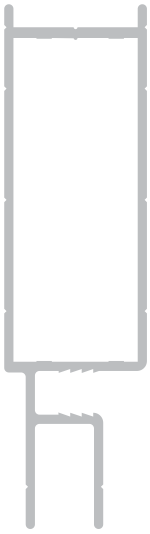


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AUS 6546



AUS 10065



AUS 10039



AUS 4314

STAKE 6mm ( white ) fits 6518  
kg/m 2.484 P 172  
OAD 44.4 x 44.4

AUS 6463

STAKE fits 6546  
kg/m 4.173 P 501  
OAD 73 x 73

AUS 6487

ADAPTOR  
kg/m 0.332 P 162  
OAD 26.5 x 24.5

AUS 6518

9mm WINDOW FRAME  
kg/m 0.309 P 133  
OAD 34.95 x 10.8

AUS 6546

DOOR FRAME  
kg/m 0.563 P 228  
OAD 68.4 x 18.6

AUS 6518



AUS 6547



AUS 10031



AUS 6547

WINDOW FRAME  
kg/m 0.287 P 136  
OAD 34.8 x 10.4

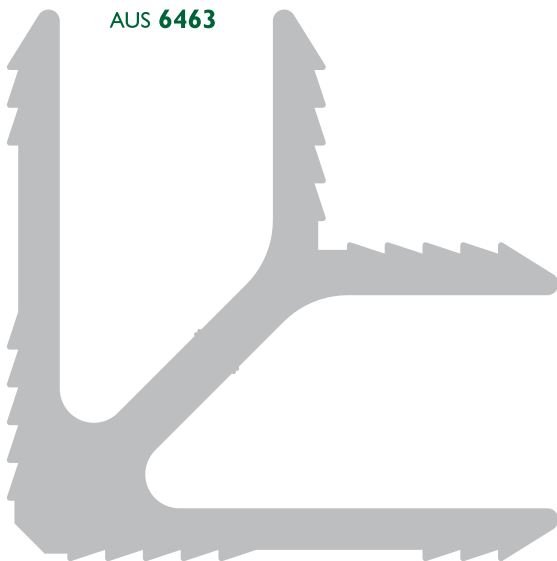
AUS 10031

SECURITY SCREEN FRAME  
kg/m 0.359 P 139  
OAD 35.9 x 11

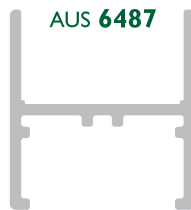
AUS 10039

DOOR FRAME  
kg/m 0.772 P 268  
OAD 82.12 x 19.4

AUS 6463



AUS 6487



AUS 4314



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**UA 5563**

STAKE fits 10061  
kg/m 3.802 P 537  
OAD 74.9 x 74.9

**UA 8370**

STAKE fits 10063  
kg/m 2.490 P 173  
OAD 44.45 x 44.45

**UA 10061**

ULLTRASAFE DOOR FRAME  
kg/m 0.829 P 270  
OAD 79.9 x 19

**UA 10062**

ULLTRASAFE DOOR BEAD  
kg/m 0.231 P 83  
OAD 26.95 x 8.78

**UA 10063**

ULLTRASAFE WINDOW FRAME  
kg/m 0.424 P 144  
OAD 43.8 x 11

**UA 10064**

ULLTRASAFE WINDOW BEAD  
kg/m 0.189 P 77  
OAD 26.95 x 5.23

**UA 10061**



**UA 10062**



**UA 10063**



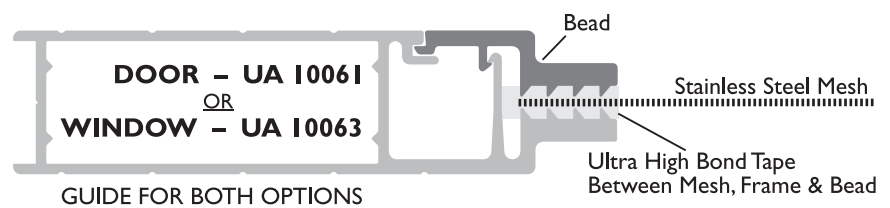
**UA 10064**



**ULTRA HIGH BOND TAPE**

Code: 2045-012

**FABRICATION GUIDE**



Note: To comply with AS5039 the door must be manufactured as shown.

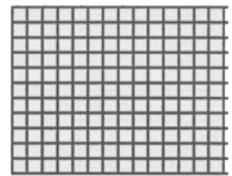
**BLACK PLASTIC INTERNAL BEAD CORNERS**



DOOR CORNER  
Fits 10062  
Code: SECUSUA40BLK

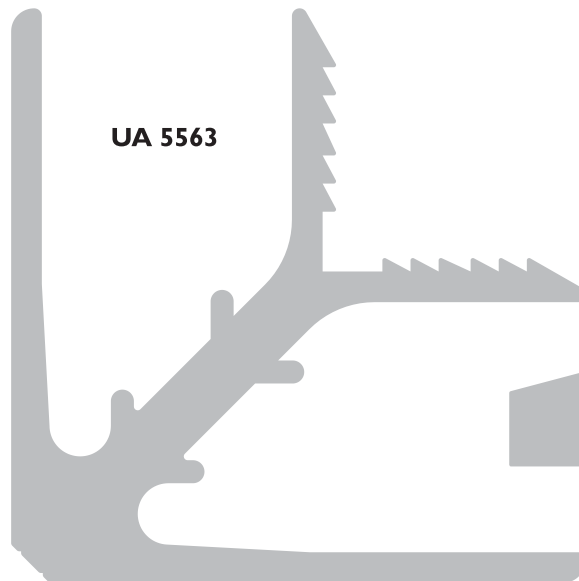


WINDOW CORNER  
Fits 10064  
Code: SECUSUA20BLK

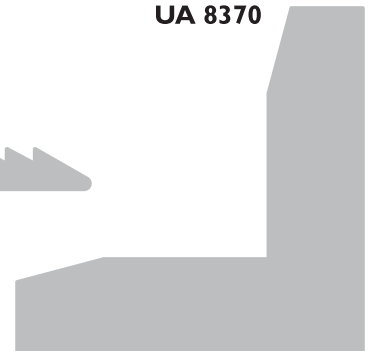


STAINLESS STEEL MESH  
GRADE 316, 0.8mm

**UA 5563**



**UA 8370**



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**COMMERCIAL APPLICATIONS**

For security doors, windows and partitions in workplaces, storage areas and public buildings, where intrusion of insects is detrimental to comfort and hygiene and where natural airflow is desirable:

- Kitchens and food preparation areas
- Garden restaurants, patio bars and cafés
- Hotel and motel dining and accommodation rooms
- Factory cafeterias
- Hospitals and medical facilities
- Food processing plants and storage areas
- Food retail outlets
- Roll curtains for tent manufacturing (fibreglass mesh)

**DOMESTIC APPLICATIONS**

All dwelling apertures or partitions where intrusion of insects is detrimental to living comfort and hygiene, and where natural airflow is desirable:

- Main entrances
- Kitchens
- Dining rooms
- Living rooms and bedrooms
- Breeze-ways
- Conservatories
- Summer houses
- Covered decks and patios
- Pergola walls



**MATERIALS**

Aluminium

**COLOURS**

Black painted  
Silver treated

**ROLL WIDTHS**

- 810 mm
- 910 mm
- 1070 mm
- 1220 mm
- 1520 mm
- 1830 mm

**MESH SIZES**

18 x 16TPI x 0.011"

Fibreglass

Black  
Grey

- 810 mm
- 910 mm
- 1070 mm
- 1220 mm
- 1520 mm
- 1830 mm

18 x 16TPI x 0.011"

Stainless steel

Natural

- 910 mm
- 1220 mm

**ROLL LENGTHS**

Standard 30-metre rolls, individually wrapped.  
Other roll lengths may be available on request

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DIE No	DESCRIPTION
UA 1054	WINDOW FRAME
UA 1355	11.8mm BOTTOM CHANNEL
UA 1379	STAKING ANGLE
UA 1380	HANDLE
UA 1381	VISION RAIL
UA 1382	VISION RAIL
UA 1383	10mm BOTTOM CHANNEL
UA 1384	10mm TOP CHANNEL
UA 1385	DOOR FRAME
UA 1386	WINDOW FRAME
UA 1388	DOOR FRAME
UA 1389	WINDOW SECTION
UA 1513	STAKING ANGLE
UA 1609	11.8mm TOP CHANNEL
UA 1610	WINDOW FRAME
UA 1611	DOOR FRAME
UA 3512	VISION RAIL
AUS 5492	PATIO POST
AUS 5493	PATIO HOLDER
AUS 5494	PATIO CORNER POST
UA 5526	SLIDING DOOR CHANNEL
UA 5534	DOUBLE BOTTOM TRACK
UA 5537	DOUBLE TOP TRACK
UA 5633	STAKING ANGLE
UA 5634	VISION RAIL
UA 5635	STAKING ANGLE
UA 5636	DOOR FRAME
UA 5637	WINDOW SECTION
UA 5638	WINDOW SECTION
UA 5699	WINDOW TRACK
UA 6246	WINDOW FRAME
AUS 6520	PATIO POST
AUS 10558	DOOR FRAME

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**UA 1054**

WINDOW FRAME  
kg/m 0.331 P 124  
OAD 34 x 21

**UA 1385****UA 1386****UA 1389****UA 1355**

11.8mm BOTTOM CHANNEL ( old )  
kg/m 0.136 P 67  
OAD 14.5 x 8.5

**UA 1610****UA 1611****UA 1388****UA 1379**

STAKE ( gold ) fits 1385,1386  
kg/m 2.227 P 264  
OAD 50 x 50

**UA 1054****UA 1609****UA 1355****UA 1385**

DOOR FRAME  
kg/m 0.278 P 104  
OAD 30 x 8.5

**UA 1386**

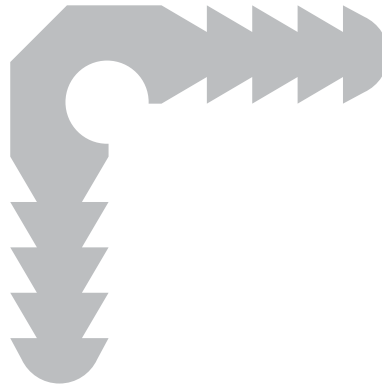
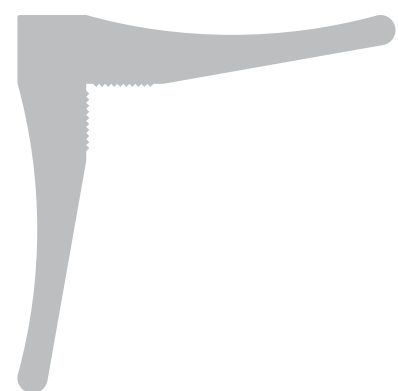
WINDOW FRAME  
kg/m 0.237 P 95  
OAD 25.5 x 8.5

**UA 5636****UA 5637****UA 5638****UA 1388**

DOOR FRAME  
kg/m 0.318 P 109  
OAD 38 x 10

**UA 1389**

WINDOW SECTION  
kg/m 0.234 P 76  
OAD 22.4 x 10

**UA 1379****UA 1513****UA 1513**

STAKE ( green ) fits 1054,1389,1610  
kg/m 1.416 P 196  
OAD 50 x 50

**UA 1609**

11.8mm TOP CHANNEL ( old )  
kg/m 0.149 P 85  
OAD 14.5 x 14.5

**UA 1610**

WINDOW FRAME  
kg/m 0.235 P 77  
OAD 21.1 x 10.3

**UA 1611**

DOOR FRAME  
kg/m 0.367 P 111  
OAD 37.4 x 10.3

**UA 5637**

WINDOW SECTION  
kg/m 0.251 P 96  
OAD 25 x 11

**UA 5636**

DOOR FRAME  
kg/m 0.499 P 142  
OAD 40 x 17

**UA 5638**

WINDOW SECTION  
kg/m 0.256 P 103  
OAD 27.6 x 11

**CORNER STAKE - PLASTIC**

Fits 1388,1611  
Code: FLYSTAKE



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**UA 1384**



**UA 1383**



**UA 1380**



**UA 1380**

HANDLE  
kg/m 0.139 P 86  
OAD 24 x 18.5

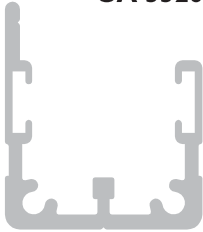
**UA 1383**

10mm BOTTOM CHANNEL  
kg/m 0.093 P 58  
OAD 12.5 x 9

**UA 1384**

10mm TOP CHANNEL  
kg/m 0.120 P 74  
OAD 13 x 12.5

**UA 5526**



**UA 5534**



**UA 5537**



**UA 5526**

SLIDING DOOR CHANNEL  
kg/m 0.468 P 200  
OAD 30.15 x 26.1

**UA 5534**

DOUBLE BOTTOM TRACK fits 1610  
kg/m 0.297 P 145  
OAD 27.7 x 24.5

**UA 5537**

DOUBLE TOP TRACK fits 1610  
kg/m 0.373 P 177  
OAD 32 x 27.7

**UA 5699**



**UA 6246**



**AUS 10558**



**UA 5633**

STAKE ( yellow ) fits 5636  
kg/m 1.725 P 352  
OAD 50 x 50

**UA 5635**

STAKE ( brown ) fits 5637  
STAKE ( purple ) fits 5638  
kg/m 1.256 P 186  
OAD 45 x 45

**UA 5699**

WINDOW TRACK  
kg/m 0.209 P 99  
OAD 24 x 16

**UA 5635**



**CORNER STAKE - PLASTIC**



Fits 6246  
Code: CS3

**UA 6246**

WINDOW FRAME  
kg/m 0.231 P 88  
OAD 25 x 11

**AUS 10558**

DOOR FRAME  
kg/m 0.547 P 177  
OAD 56.05 x 19.8

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**UA 1381**

VISION RAIL  
kg/m 0.730 P 320  
OAD 120.3 x 11.5

**UA 1382**

VISION RAIL  
kg/m 0.361 P 200  
OAD 60 x 11.4

**UA 3512**

VISION RAIL  
kg/m 0.641 P 300  
OAD 113 x 11

**AUS 5492**

PATIO POST  
kg/m 0.499 P 231  
OAD 50 x 25

**AUS 5493**

PATIO HOLDER  
kg/m 0.225 P 84  
OAD 22.5 x 10.3

**AUS 5494**

PATIO CORNER POST  
kg/m 0.861 P 262  
OAD 50 x 50

**UA 5634**

VISION RAIL  
kg/m 0.568 P 250  
OAD 90 x 11.5

**AUS 6520**

PATIO POST  
kg/m 0.904 P 281  
OAD 50 x 50

**UA 1382**



**UA 1381**



**UA 5634**



**UA 3512**



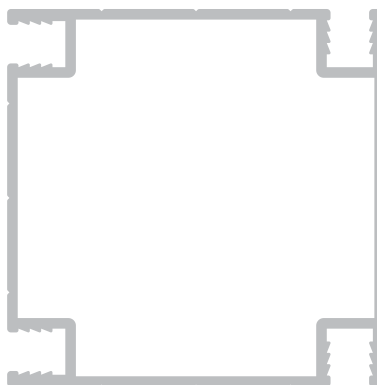
**AUS 5492**



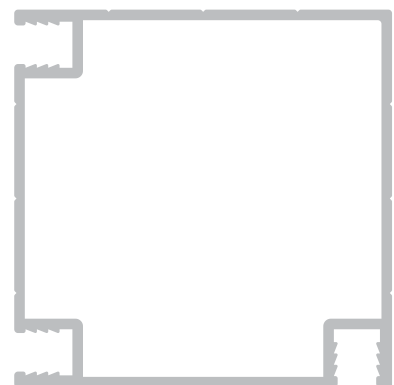
**AUS 5493**



**AUS 6520**



**AUS 5494**



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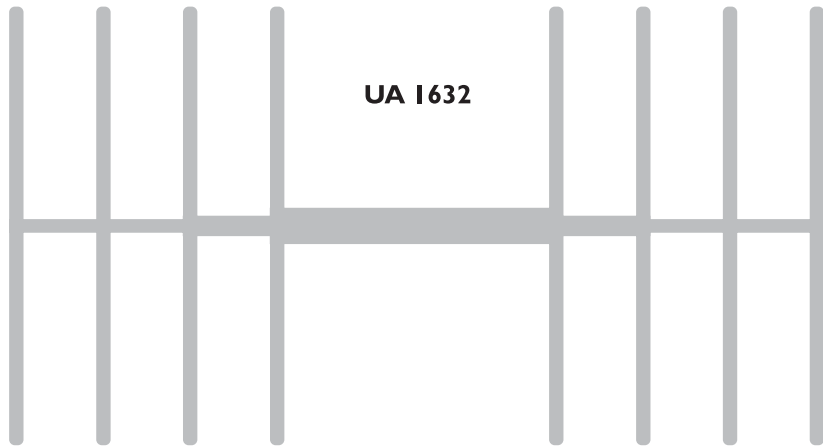
DIE No	DESCRIPTION
UA 1632	HEATSINK
UA 1633	HEATSINK
UA 1634	HEATSINK
UA 1635	HEATSINK
UA 2109	HEATSINK
UA 2238	HEATSINK
AUS 2284	HEATSINK
UA 2651	HEATSINK
UA 2880	HEATSINK
UA 2960	HEATSINK
UA 3133	HEATSINK
UA 3295	HEATSINK
UA 4173	HEATSINK
UA 4248	HEATSINK
UA 4305	HEATSINK
AUS 4321	HEATSINK
UA 4574	HEATSINK
UA 4718	HEATSINK
UA 4956	HEATSINK
UA 4979	HEATSINK

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.  
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P = EXT PERIPHERY

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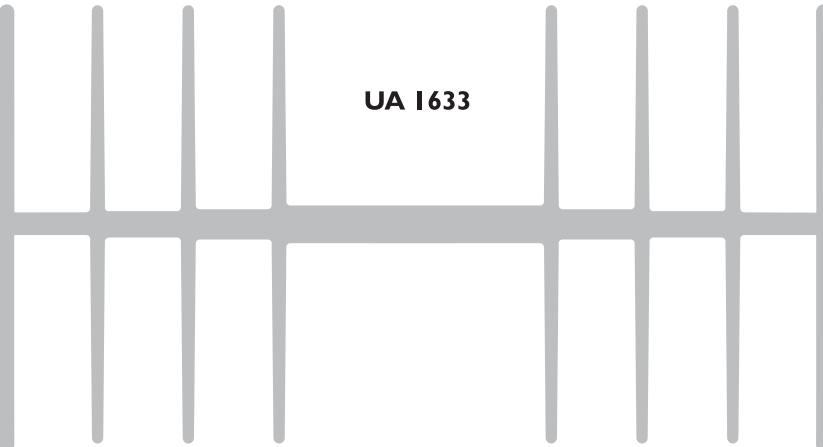


**UA 1632**  
 HEATSINK  
 kg/m 2.905 P 1093  
 OAD 108 x 58



**UA 1632**

**UA 1633**  
 HEATSINK  
 kg/m 3.455 P 1130  
 OAD 134 x 60,5



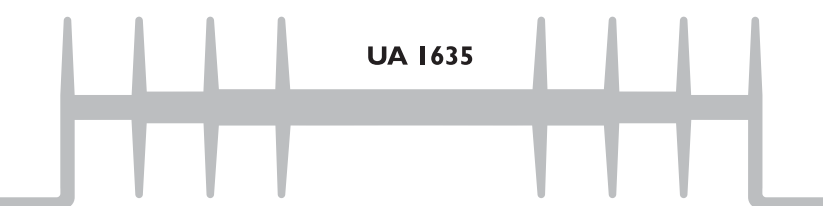
**UA 1633**

**UA 1634**  
 HEATSINK  
 kg/m 3.317 P 789  
 OAD 103 x 44,5



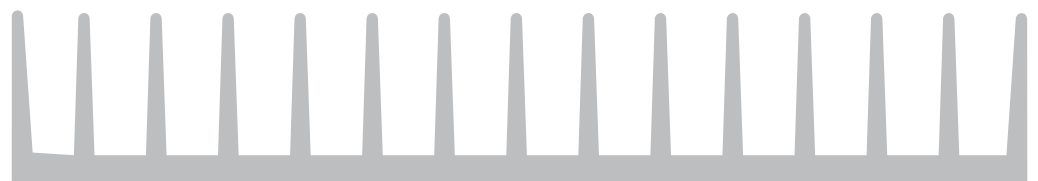
**UA 1634**

**UA 1635**  
 HEATSINK  
 kg/m 1.821 P 542  
 OAD 114,3 x 25,4



**UA 1635**

**UA 2238**  
 HEATSINK  
 kg/m 3.166 P 806  
 OAD 135 x 22,8



**UA 2238**



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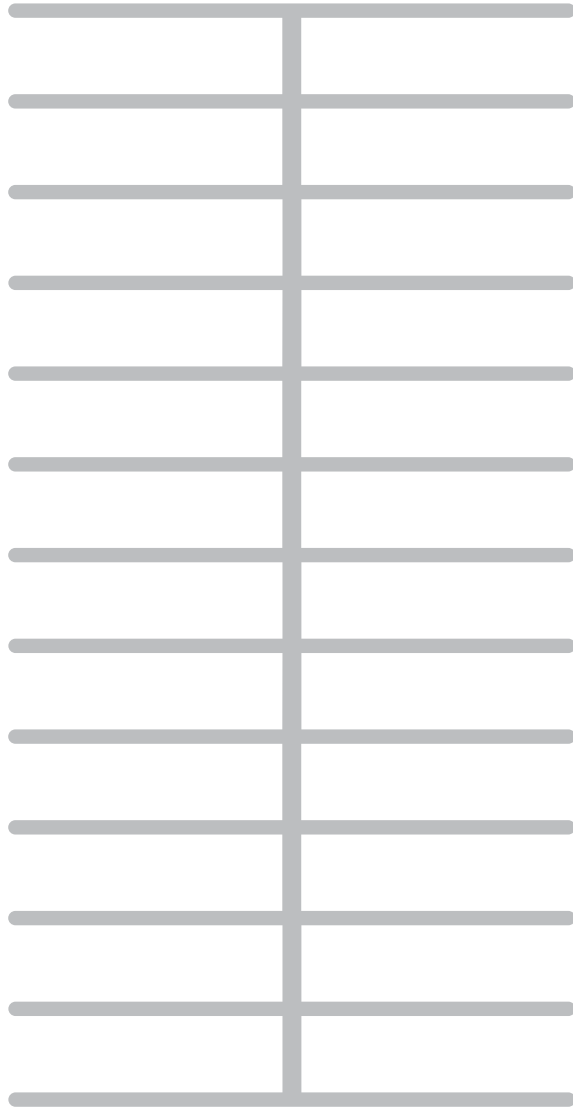
**P** = EXT PERIPHERY

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UA3133



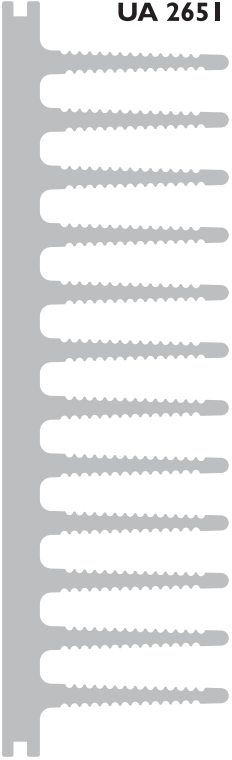
UA 4173



UA 2109

HEATSINK  
kg/m 4.699 P 1087  
OAD 97.5 x 75

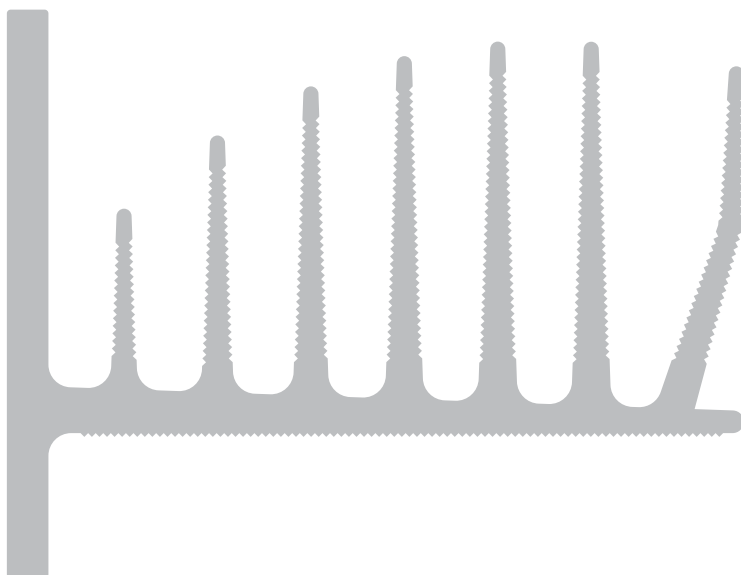
UA 2651



UA 4718



UA 2109



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**AUS 2284**

HEATSINK  
kg/m 8.006 P 1734  
OAD 150 x 48

**UA 2960**

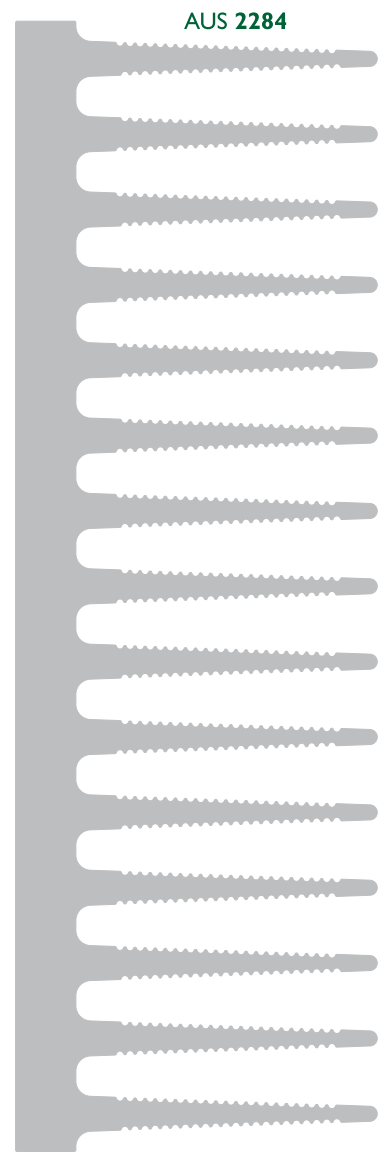
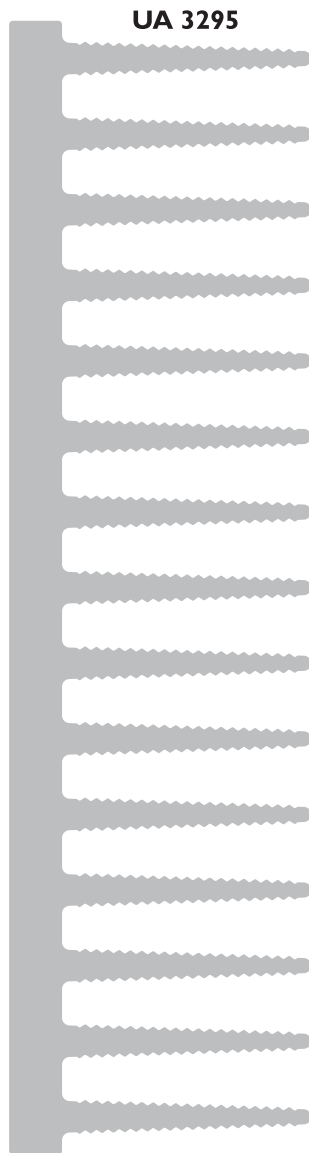
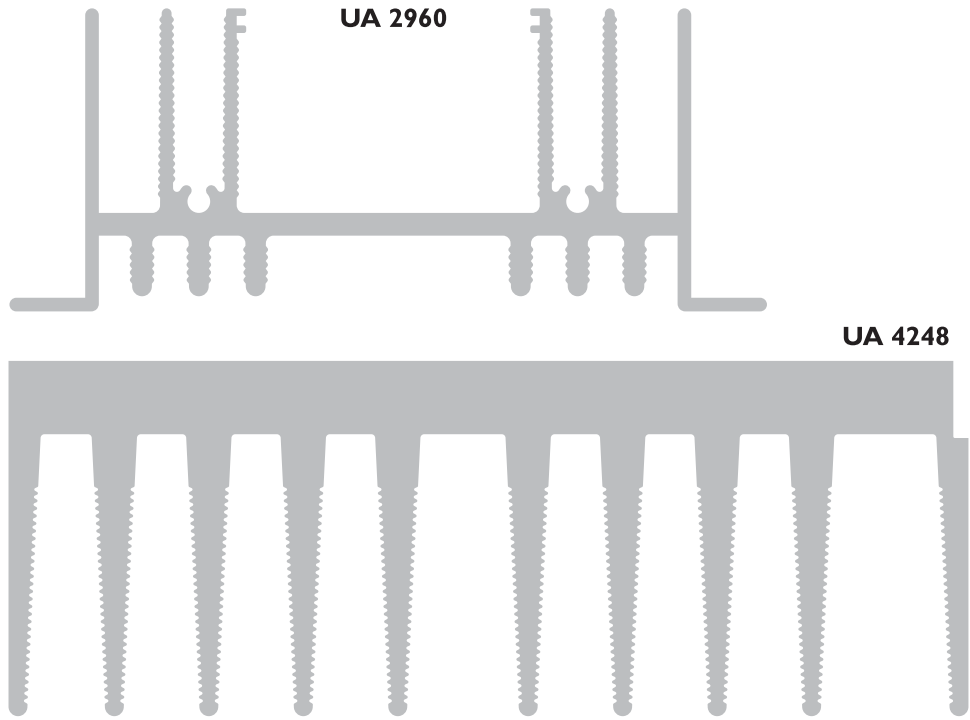
HEATSINK  
kg/m 2.086 P 702  
OAD 100 x 40

**UA 3295**

HEATSINK  
kg/m 6.951 P 1385  
OAD 150 x 40

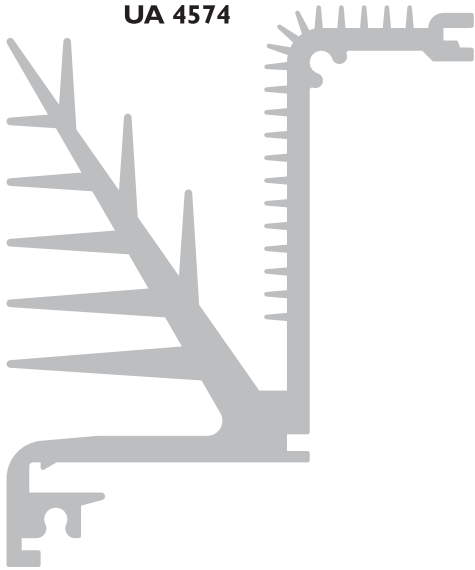
**UA 4248**

HEATSINK  
kg/m 6.968 P 1242  
OAD 127 x 47

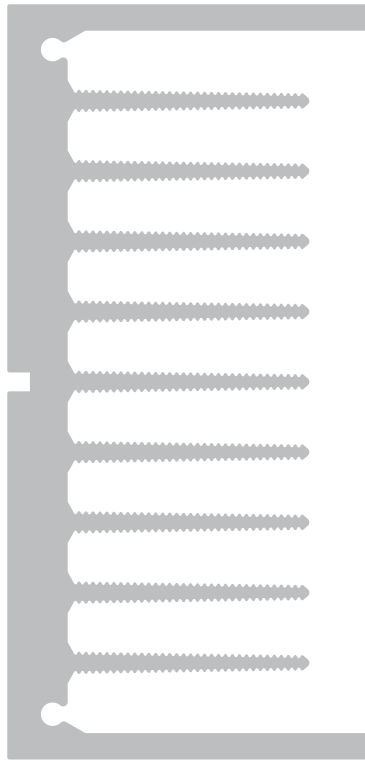


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**UA 4574**



**UA 4979**



**UA 2880**

HEATSINK  
kg/m 3.017 P 1062  
OAD 133.5 x 60.5

**UA 4574**

HEATSINK  
kg/m 2.594 P 722  
OAD 74.1 x 61.65

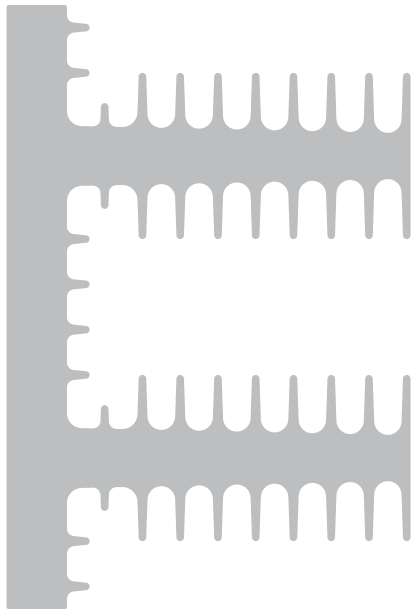
**UA 4956**

HEATSINK  
kg/m 4.471 P 820  
OAD 80 x 53.5

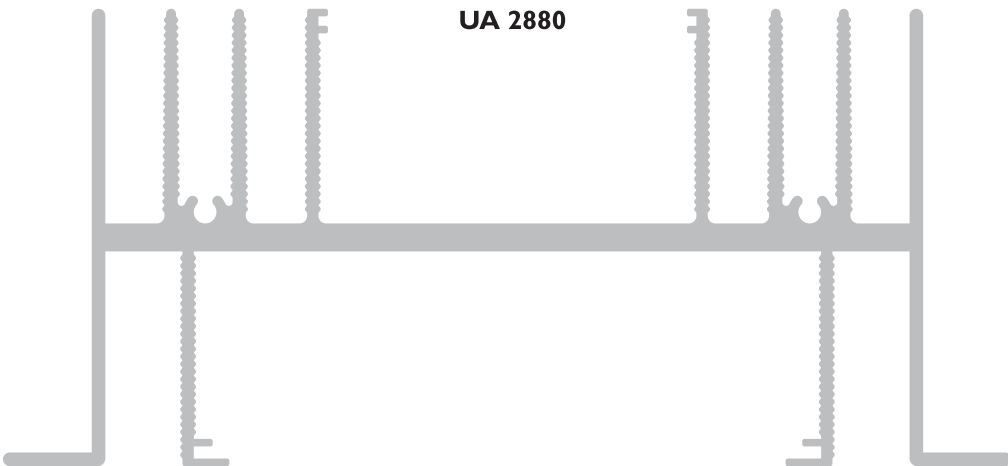
**UA 4979**

HEATSINK  
kg/m 4.509 P 1166  
OAD 100 x 48

**UA 4956**



**UA 2880**



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**UA 4305**

HEATSINK

kg/m 4.381 P 919

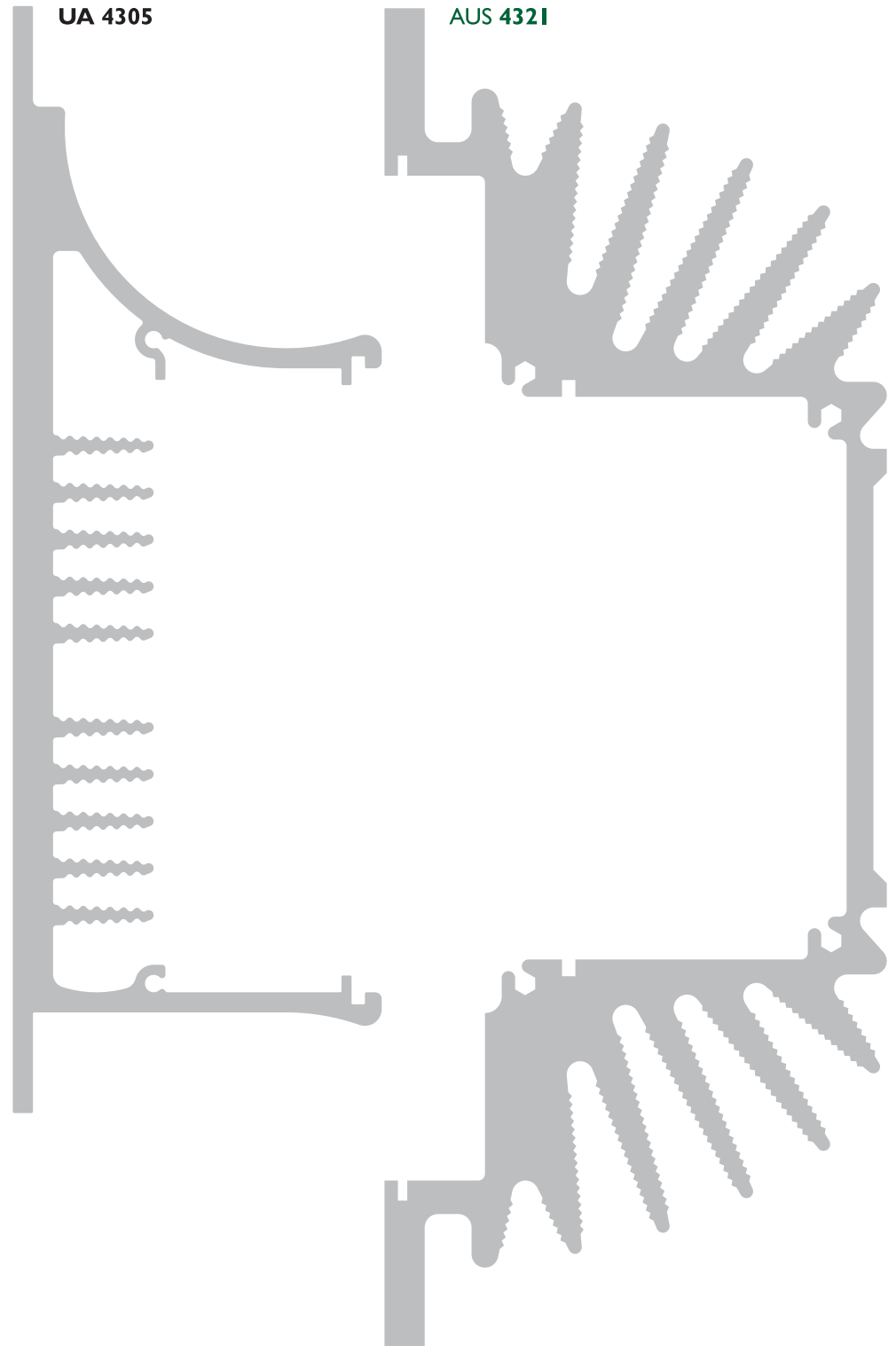
OAD 165 x 55

**AUS 4321**

HEATSINK

kg/m 8.675 P 1292

OAD 200 x 75



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DIE No	DESCRIPTION	DIE No	DESCRIPTION
UA 1063	FRAME	AUS 5800	BEAD
UA 1064	FRAME	AUS 5801	MULLION
UA 1065	BLADE	AUS 5802	HEAD JAMB
UA 1089	BLADE	AUS 5803	SILL
UA 1368	BLADE	AUS 5804	HEAD ADAPTOR
UA 1572	BLADE	AUS 5805	BEAD
UA 1661	BLADE	UA 6401	BLADE
UA 1902	BLADE	UA 6430	65mm 2-PIECE SQUARE
UA 1903	FRAME	AUS 6445	120mm SNAP IN
UA 1904	FRAME	AUS 6446	120mm HEAD
UA 1913	FRAME	AUS 6447	120mm JAMB
UA 2879	BLADE	AUS 6448	120mm JAMB
UA 2885	FRAME	AUS 6449	50mm FRAME No.2
UA 3101	BLADE	AUS 6450	50mm FRAME No.1
UA 3102	BLADE	AUS 6485	MULLION
UA 3164	BLADE	AUS 6488	SCREEN STAND OUT
UA 3414	BLADE	UA 6526	BLADE
UA 3431	FRAME	UA 6758	BLADE
UA 3442	WEATHER BAR	UA 6856	BLADE PANEL
UA 3653	BLADE	UA 6860	BLADE
UA 4085	BLADE	UA 6876	BLADE
UA 4133	CHANNEL	UA 7198	BLADE
UA 4134	CHANNEL LID	UA 7425	BLADE
UA 4202	JOINTER	UA 7452	BLADE
UA 4203	SILL WEATHER BAR	UA 7461	BRACKET
UA 4204	HEAD WEATHER BAR	UA 7613	BLADE PANEL
UA 4205	EXTENSION	UA 7694	BLADE PANEL
UA 4206	FINNED JOINTER	UA 7773	BLADE PANEL
UA 4230	TORSION BAR	UA 7774	BLADE CHANNEL
UA 4231	BLADE	UA 7788	BLADE PANEL
UA 4609	BLADE	AUS 8029	BLADE
UA 5018	BLADE	AUS 8422	LOUVRE CHANNEL
UA 5022	FIXED BLADE	AUS 10018	BLADE
UA 5032	BRACKET	AUS 10102	BLADE
UA 5033	SUN BLADE	AUS 10523	BRACKET
UA 5234	STORM LOUVRE		
UA 5354	BLADE		
UA 5355	BRACKET		
UA 5442	FRAME		
UA 5535	MULLION CLIP		
UA 5536	MULLION		
UA 5545	BLADE		
UA 5546	FIXED BLADE		
UA 5626	BLADE		
UA 5768	BLADE		

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**UA 1063**

FRAME

kg/m 0.363 P 176  
OAD 40 x 33.6**UA 1064**

FRAME

kg/m 0.225 P 122  
OAD 34.8 x 21.8**UA 1065**

37mm BLADE

kg/m 0.209 P 110  
OAD 37 x 18**UA 1368**

38mm BLADE fits 2885

kg/m 0.510 P 200  
OAD 72 x 38**UA 1572**

BLADE fits 4635

kg/m 0.440 P 165  
OAD 62.3 x 43.5**UA 1661**

31.8mm BLADE fits 1655

kg/m 0.446 P 192  
OAD 32 x 71**UA 1902**

28.8mm BLADE

kg/m 0.183 P 105  
OAD 28.8 x 20.5**UA 1903**

FRAME

kg/m 0.394 P 145  
OAD 36 x 22**UA 1904**

FRAME

kg/m 0.189 P 93  
OAD 28.6 x 14.3**UA 1913**

42mm FRAME

kg/m 0.467 P 174  
OAD 47 x 30**UA 2885**

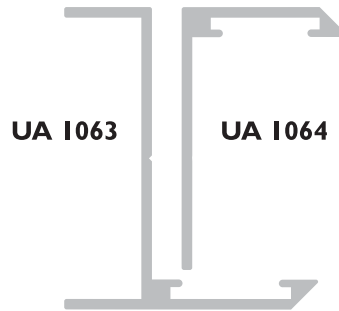
38mm FRAME

kg/m 0.296 P 197  
OAD 40 x 30**UA 3164**

54mm BLADE

kg/m 0.810 P 303  
OAD 109.6 x 54

UA 1065

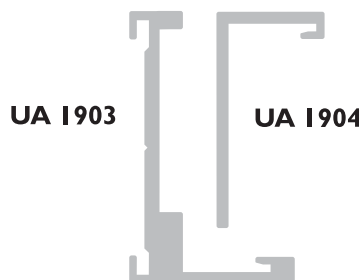


UA 1063

UA 1064



UA 1902



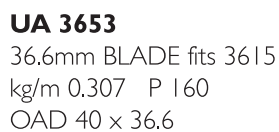
UA 1903

UA 1904

UA 1913



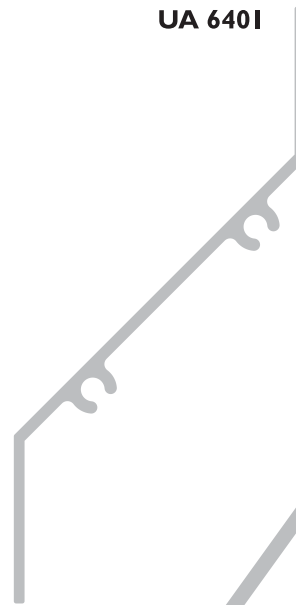
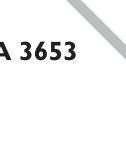
UA 1913



UA 3653

36.6mm BLADE fits 3615  
kg/m 0.307 P 160  
OAD 40 x 36.6**UA 6401**

38mm BLADE

kg/m 0.439 P 214  
OAD 77.8 x 38**UA 6401****UA 3164**

UA 1661

UA1368

UA 1572

UA 2885

UA 3653



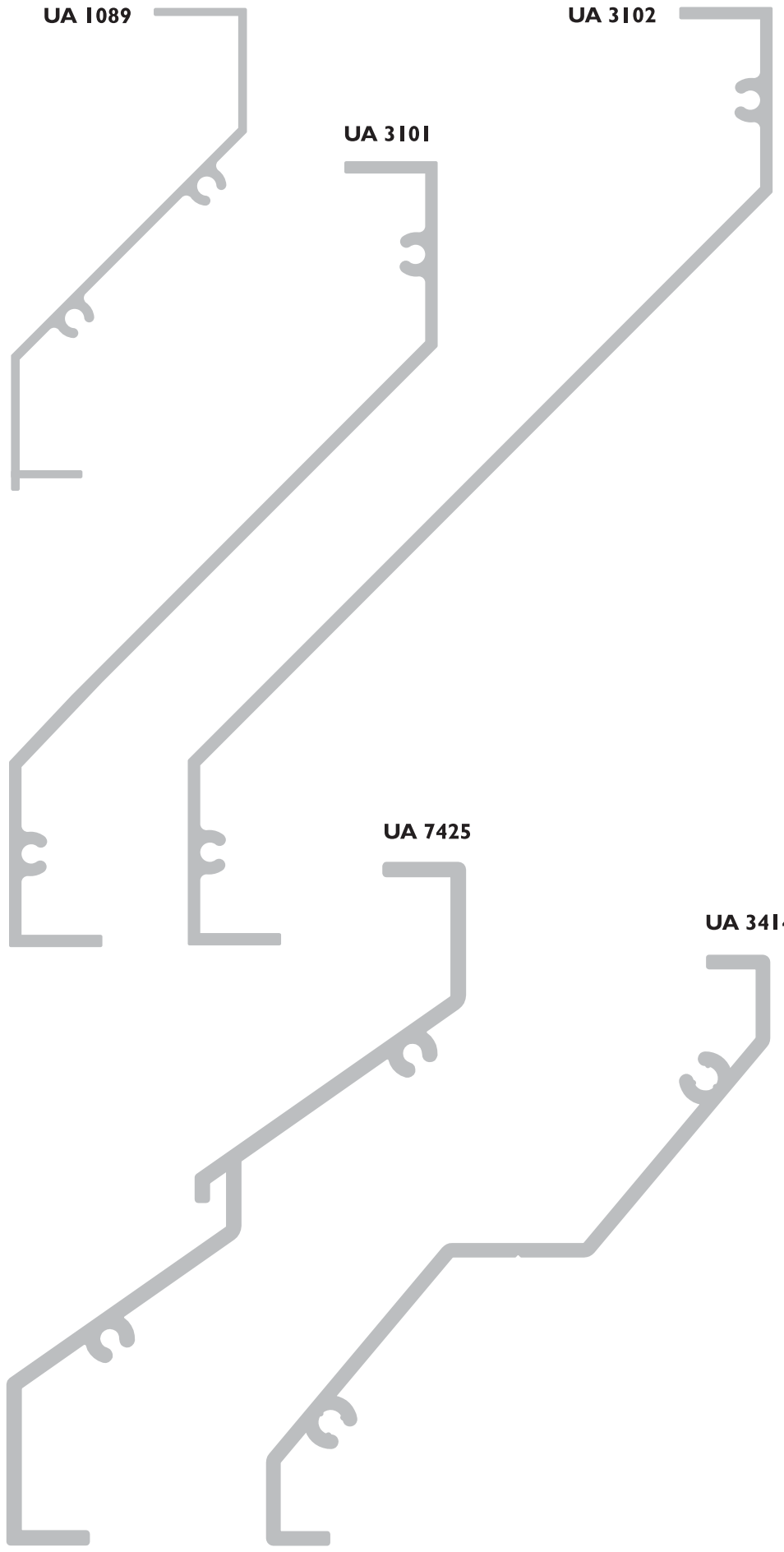
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**UA 1089**  
 38mm BLADE fits 2885  
 kg/m 0.522 P 261  
 OAD 78 x 38

**UA 3101**  
 69mm BLADE fits 1671  
 kg/m 0.961 P 390  
 OAD 126.5 x 69

**UA 3102**  
 94mm BLADE fits 1135  
 kg/m 1.256 P 460  
 OAD 151 x 94

**UA 3414**  
 81mm BLADE  
 kg/m 0.949 P 352  
 OAD 95 x 81

**UA 7425**  
 73.8mm BLADE  
 kg/m 1.061 P 389  
 OAD 110 x 73.8

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**UA 5354**

BLADE  
 kg/m 1.536 P 232  
 OAD 110 x 22.55  
 Box Cavity takes 1273  
 Cast End Cap UC1989

**UA 5355**

BRACKET fits 5354, 6758  
 kg/m 0.585 P 178  
 OAD 64 x 22

**UA 6430**

65 x 65mm 2-PIECE SQUARE  
 kg/m 1.257 P 349  
 OAD 65 x 61.15

**UA 6526**

BLADE  
 kg/m 0.808 P 186  
 OAD 89.8 x 12

**UA 6758**

BLADE  
 kg/m 2.412 P 373  
 OAD 180 x 30  
 Box Cavity takes 1273  
 Cast End Cap UC1500

**UA 6860**

BLADE  
 kg/m 1.315 P 249  
 OAD 120 x 18

**UA 6876**

BLADE  
 kg/m 1.588 P 307  
 OAD 150 x 18

**UA 6526**



**UA 6876**



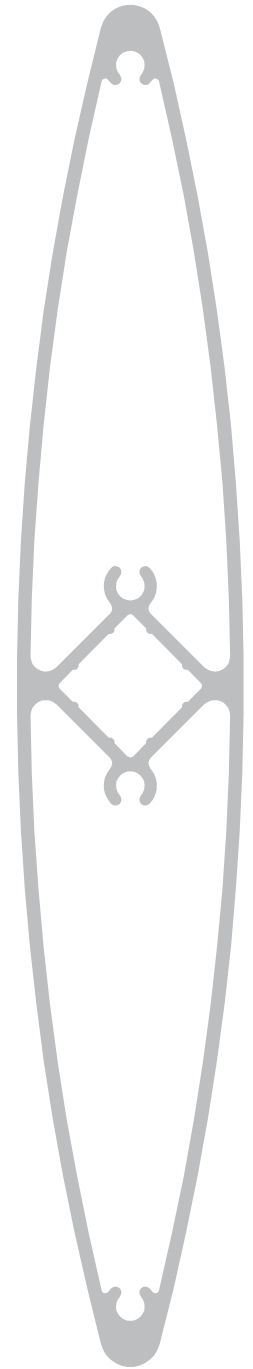
**UA 5355**



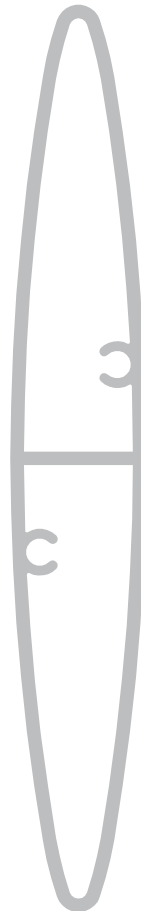
**UA 5354**



**UA 6758**

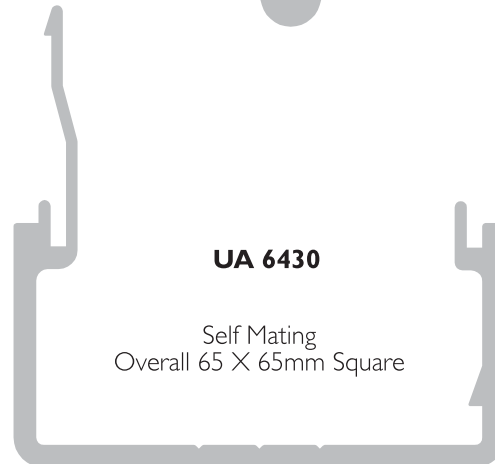


**UA 6860**



**UA 6430**

Self Mating  
 Overall 65 X 65mm Square



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UA 7198



UA 7613



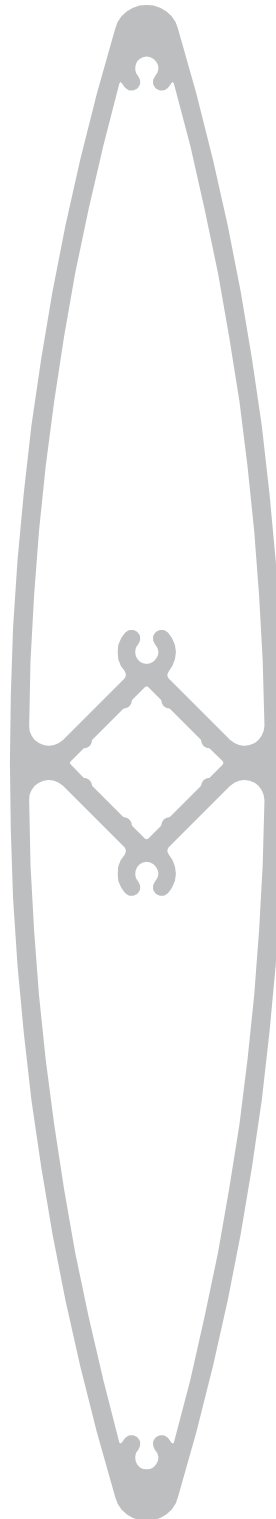
UA 6856



UA 7694



UA 7452



UA 4085

UA 4085



BLADE  
kg/m 0,920 P 191  
OAD 94 x 10

UA 6856  
BLADE PANEL  
kg/m 1,161 P 259  
OAD 115 x 17

UA 7198  
BLADE  
kg/m 2,155 P 402  
OAD 200 x 12

UA 7452  
BLADE  
kg/m 2,737 P 415  
OAD 200,07 x 35,55

UA 7461  
BRACKET fits 7452  
kg/m 1,669 P 263  
OAD 99 x 35,94

UA 7613  
BLADE PANEL  
kg/m 0,647 P 149  
OAD 60 x 17

UA 7694  
BLADE PANEL  
kg/m 1,253 P 279  
OAD 125 x 17

UA 7461



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**UA 5032**

BRACKET

kg/m 1.556 P 334  
OAD 73.57 x 60**UA 5033**

SUN BLADE

kg/m 0.932 P 359  
OAD 100 x 73.25**AUS 8029**

BLADE

kg/m 0.942 P 211  
OAD 100 x 20.4**AUS 8422**

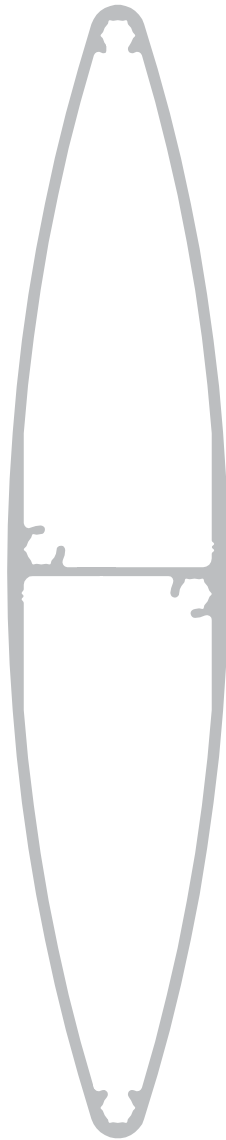
LOUVRE CHANNEL

kg/m 0.348 P 156  
OAD 38.7 x 20.3**AUS 10018**

BLADE

kg/m 1.543 P 313  
OAD 150 x 29**AUS 10523**

BRACKET fits 10018

kg/m 4.165 P 438  
OAD 122 x 76.75**AUS 10018****AUS 8029****AUS 8422****AUS 10523****UA 5033****UA 5032**

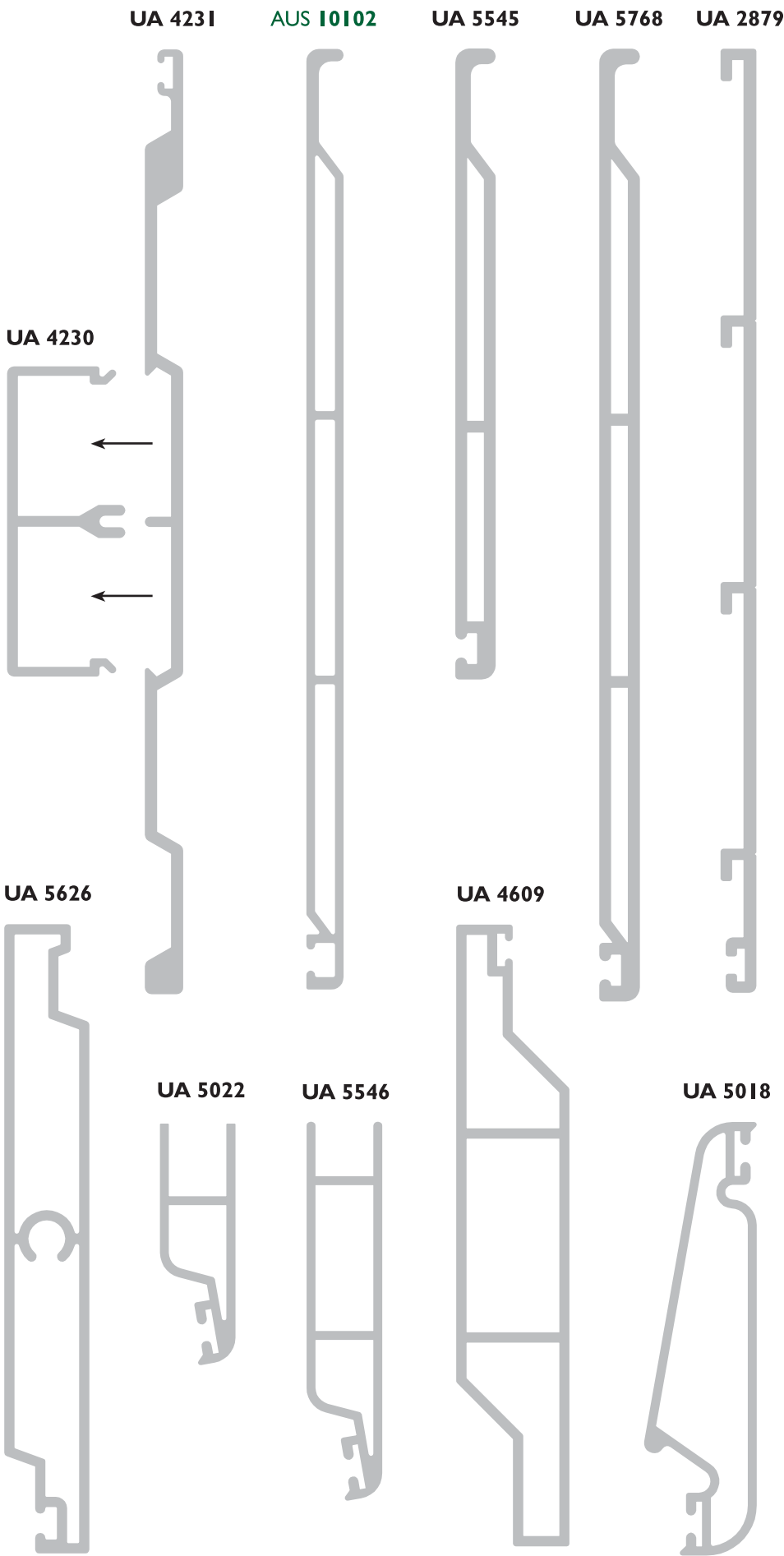
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**UA 2879**  
BLADE  
kg/m 0.891 P 379  
OAD 152 x 5.5

**UA 4230**  
TORSION BAR  
kg/m 0.423 P 217  
OAD 50 x 18.9

**UA 4231**  
BLADE  
kg/m 0.992 P 356  
OAD 152 x 6

**UA 4609**  
BLADE  
kg/m 0.959 P 234  
OAD 100 x 18

**UA 5018**  
BLADE  
kg/m 0.590 P 200  
OAD 69.85 x 17.95

**UA 5022**  
FIXED BLADE  
kg/m 0.331 P 138  
OAD 39 x 12

**UA 5545**  
BLADE  
kg/m 0.800 P 227  
OAD 101.5 x 6

**UA 5546**  
FIXED BLADE  
kg/m 0.504 P 175  
OAD 61 x 12

**UA 5626**  
BLADE  
kg/m 0.955 P 239  
OAD 101.5 x 13.5

**UA 5768**  
BLADE  
kg/m 1.222 P 333  
OAD 153.5 x 6.05

**AUS 10102**  
BLADE  
kg/m 1.178 P 331  
OAD 151.5 x 6

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**UA 3431**

FRAME

kg/m 1.328 P 311  
OAD 110 x 20**UA 3442**

WEATHER BAR

kg/m 0.437 P 220  
OAD 48.74 x 41.49**UA 5234**

STORM LOUVRE

kg/m 0.769 P 328  
OAD 80 x 59**UA 5442**

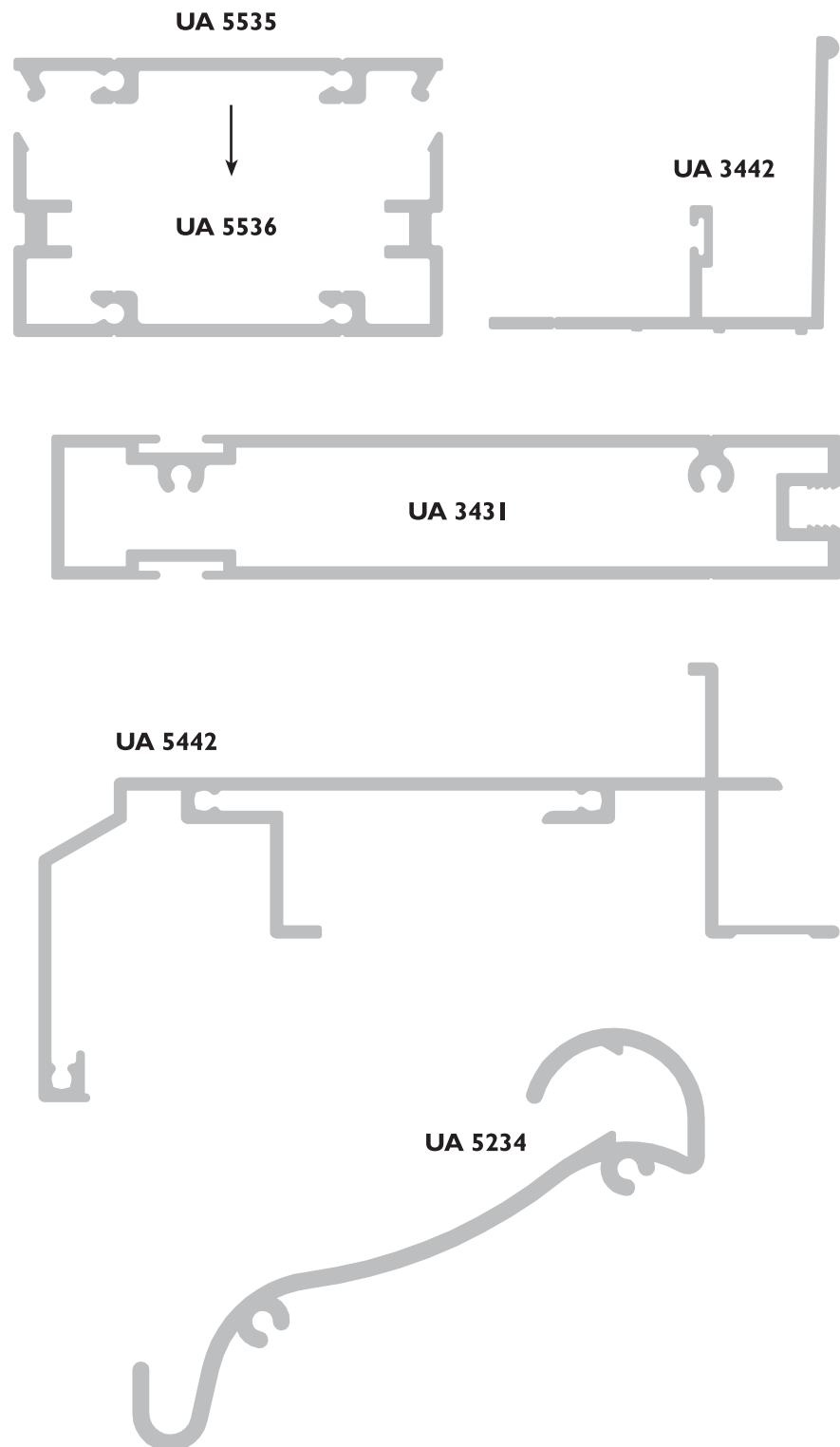
FRAME

kg/m 1.114 P 518  
OAD 111.4 x 61**UA 5535**

MULLION CLIP

kg/m 0.399 P 174  
OAD 60 x 6.25**UA 5536**

MULLION

kg/m 0.724 P 307  
OAD 60 x 28.5

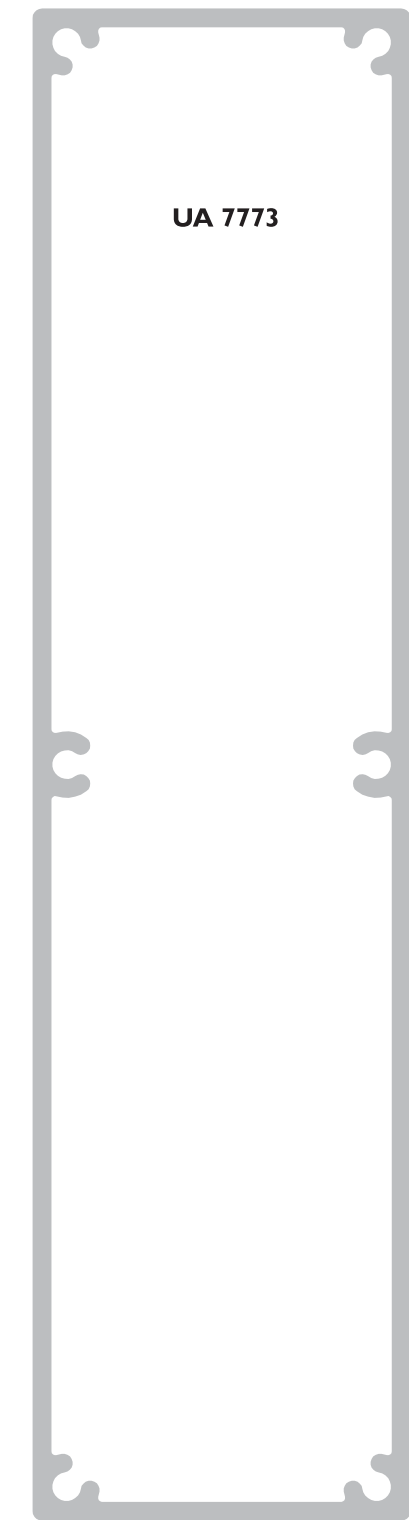
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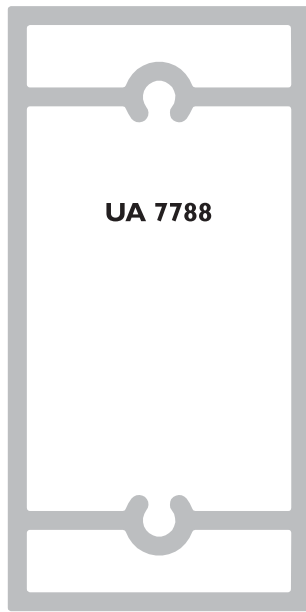
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UA 7773



UA 7788

UA 4202



UA 4133

CHANNEL  
kg/m 0.292 P 160  
OAD 40.75 x 20.7

UA 4134

CHANNEL LID  
kg/m 0.163 P 94  
OAD 40.75 x 3.7

UA 4202

JOINTER  
kg/m 0.280 P 130  
OAD 40.75 x 10.4

UA 4206



UA 4203

SILL WEATHER BAR  
kg/m 0.479 P 220  
OAD 43.75 x 40

UA 4204

HEAD WEATHER BAR  
kg/m 0.391 P 198  
OAD 43.75 x 30

UA 4205



UA 4133



UA 4205

EXTENSION  
kg/m 0.307 P 156  
OAD 40.75 x 18.7

UA 4206

FINNED JOINTER  
kg/m 0.522 P 219  
OAD 85.75 x 10.4

UA 4134



UA 4204



UA 7773

BLADE PANEL  
kg/m 3.612 P 498  
OAD 200 x 50

UA 7774

BLADE CHANNEL  
kg/m 1.206 P 305  
OAD 57 x 50

UA 7788

BLADE PANEL  
kg/m 2.134 P 240  
OAD 80 x 40



UA 7774

UA 4203



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OAD = OVERALL DIMENSIONS  
P = EXT PERIPHERY



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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

NB: CUSTOMERS ARE TO CONFIRM THAT THEIR BLADE HOLDERS WILL SUIT THE DIMENSIONS OF OUR ULLRICH LOUVRE BLADES BEFORE ORDERING. NO RESPONSIBILITY WILL BE TAKEN FOR THE SUPPLY OF ANY INCORRECT BLADES.

Edition 16 - 2018

**AUS 6445**

120mm SNAP IN  
kg/m 0.159 P 100  
OAD 19 x 16.3

**AUS 6446**

120mm HEAD  
kg/m 1.406 P 671  
OAD 120 x 84

**AUS 6447**

120mm JAMB  
kg/m 1.093 P 532  
OAD 120 x 54

**AUS 6448**

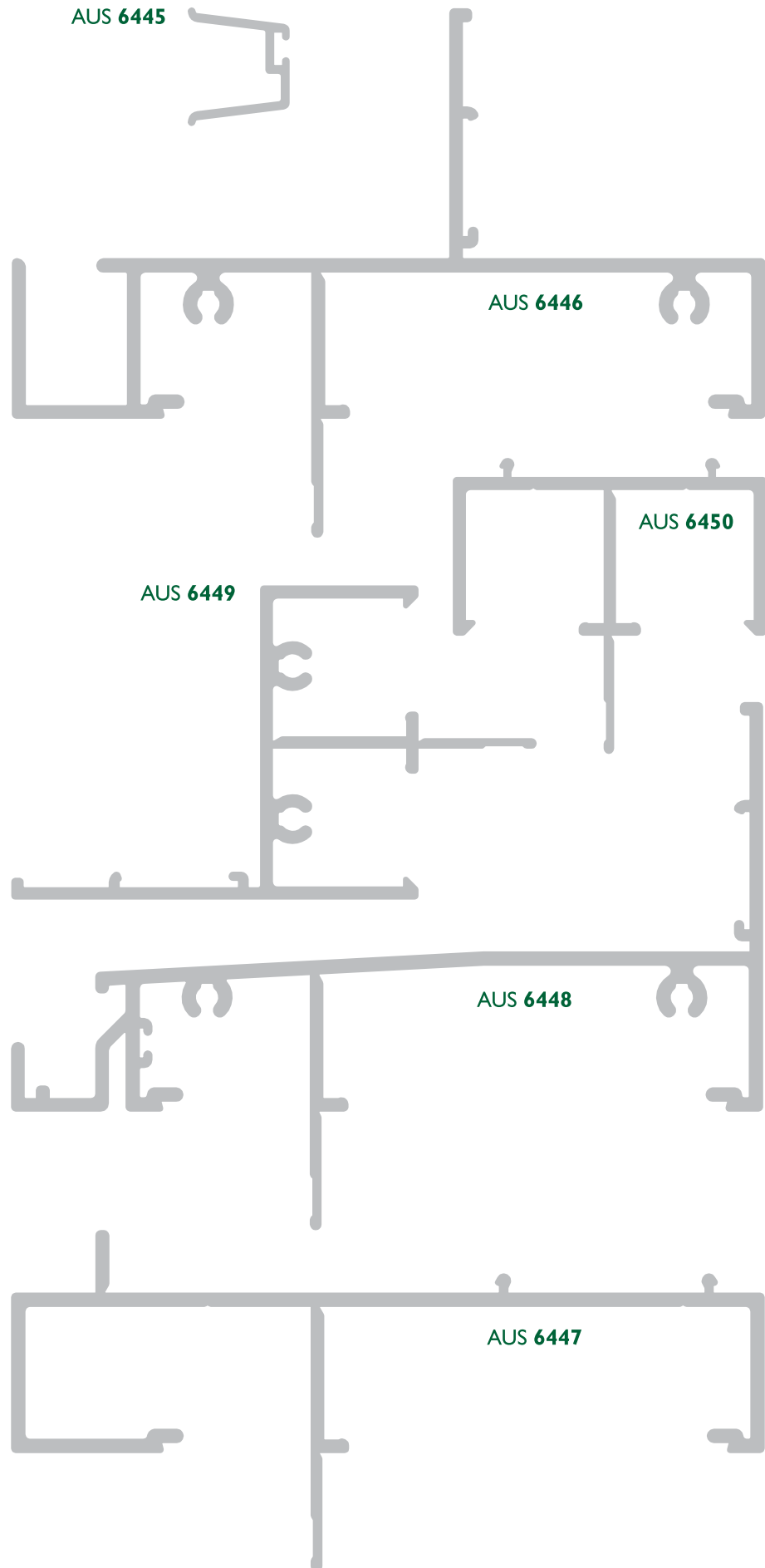
120mm JAMB  
kg/m 1.389 P 661  
OAD 120 x 84

**AUS 6449**

50mm FRAME No.2  
kg/m 0.923 P 440  
OAD 84 x 50

**AUS 6450**

50mm FRAME No.1  
kg/m 0.624 P 316  
OAD 50 x 47.05



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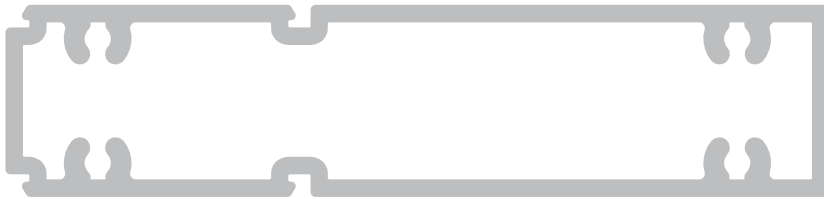
AUS 5804



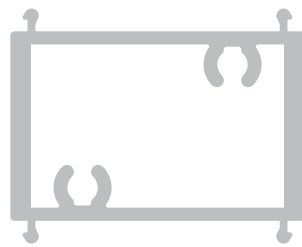
AUS 6488



AUS 5801



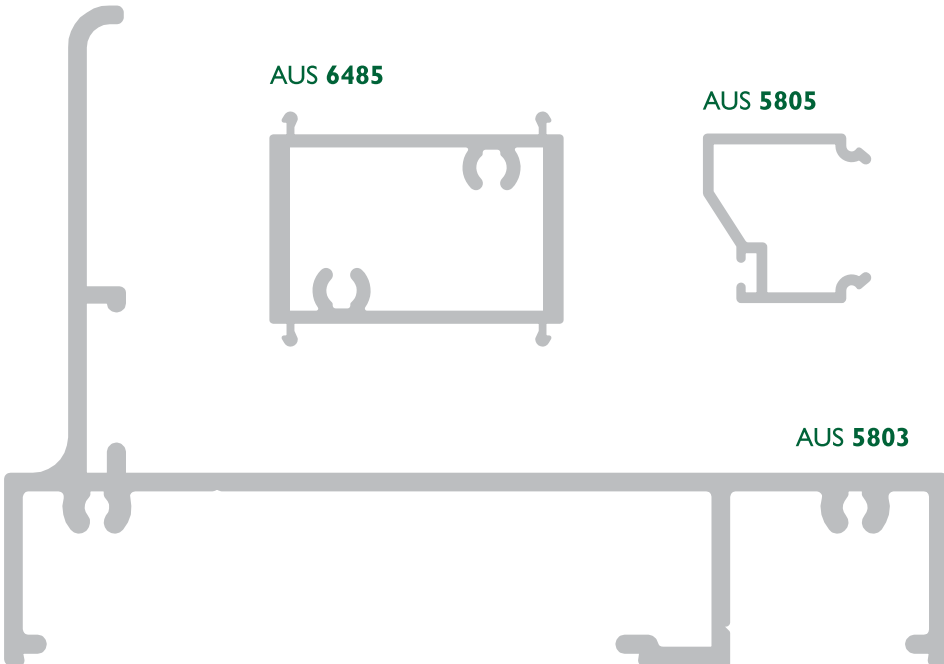
AUS 6485



AUS 5805



AUS 5803



AUS 5800



AUS 5802



AUS 5800

BEAD  
kg/m 0.186 P 116  
OAD 22.5 x 18.2

AUS 5801

MULLION  
kg/m 1.614 P 283  
OAD 109 x 25

AUS 5802

HEAD JAMB  
kg/m 1.316 P 523  
OAD 125 x 44

AUS 5803

SILL  
kg/m 1.652 P 654  
OAD 125 x 106

AUS 5804

HEAD ADAPTOR  
kg/m 0.492 P 205  
OAD 48 x 41.8

AUS 5805

BEAD  
kg/m 0.227 P 142  
OAD 22.5 x 22.35

AUS 6485

MULLION  
kg/m 0.759 P 155  
OAD 39 x 31.1

AUS 6488

SCREEN STAND OUT  
kg/m 0.473 P 205  
OAD 65 x 29.8

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Edition 16 - 2018

DIE No	DESCRIPTION
UA 1037	EASY DUCT LID
UA 1038	EASY DUCT BASE
UA 1039	EASY DUCT BASE
UA 1040	CAVITY DUCT BASE
UA 1041	DUCT DIVIDER
UA 1042	DUCT LID
UA 1043	DUCT BASE CHANNEL
UA 1593	DUCT LID
UA 1594	DUCT CHANNEL
UA 1595	DUCT CHANNEL
UA 1596	DUCT CHANNEL
UA 1597	DUCT CHANNEL
UA 1598	DUCT CHANNEL
UA 1600	DUCT CHANNEL
UA 1854	DUCT LID
UA 1867	DUCT LID
UA 1925	DUCT CHANNEL
UA 2046	DUCT CHANNEL
UA 2047	DUCT LID
UA 2530	DUCT BASE
UA 2531	DUCT LID
UA 4476	DUCT CHANNEL
UA 5045	DUCT CHANNEL
UA 5336	DUCT LID
UA 5337	DUCT LID
UA 5346	DUCT LID
UA 5917	DOUBLE DUCT CHANNEL
UA 5918	DOUBLE DUCT LID
UA 5928	DUCT LID
UA 6214	DUCT CHANNEL
UA 6382	DUCT CHANNEL
UA 7023	DUCT CHANNEL
UA 7024	DUCT LID
UA 7702	DUCT CHANNEL
UA 7446	DUCT CHANNEL
UA 7447	DUCT LID
UA 7778	DOUBLE DUCT CHANNEL

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**UA I037**  
EASY DUCT LID ( 2C, 3C )  
kg/m 0.868 P 329  
OAD 136 x 10

**UA I038**  
EASY DUCT BASE ( 2C )  
kg/m 1.449 P 559  
OAD 136 x 41

**UA I039**  
EASY DUCT BASE ( 3C )  
kg/m 1.668 P 645  
OAD 136 x 41

**UA I040**  
CAVITY DUCT BASE  
kg/m 0.949 P 432  
OAD 84 x 44

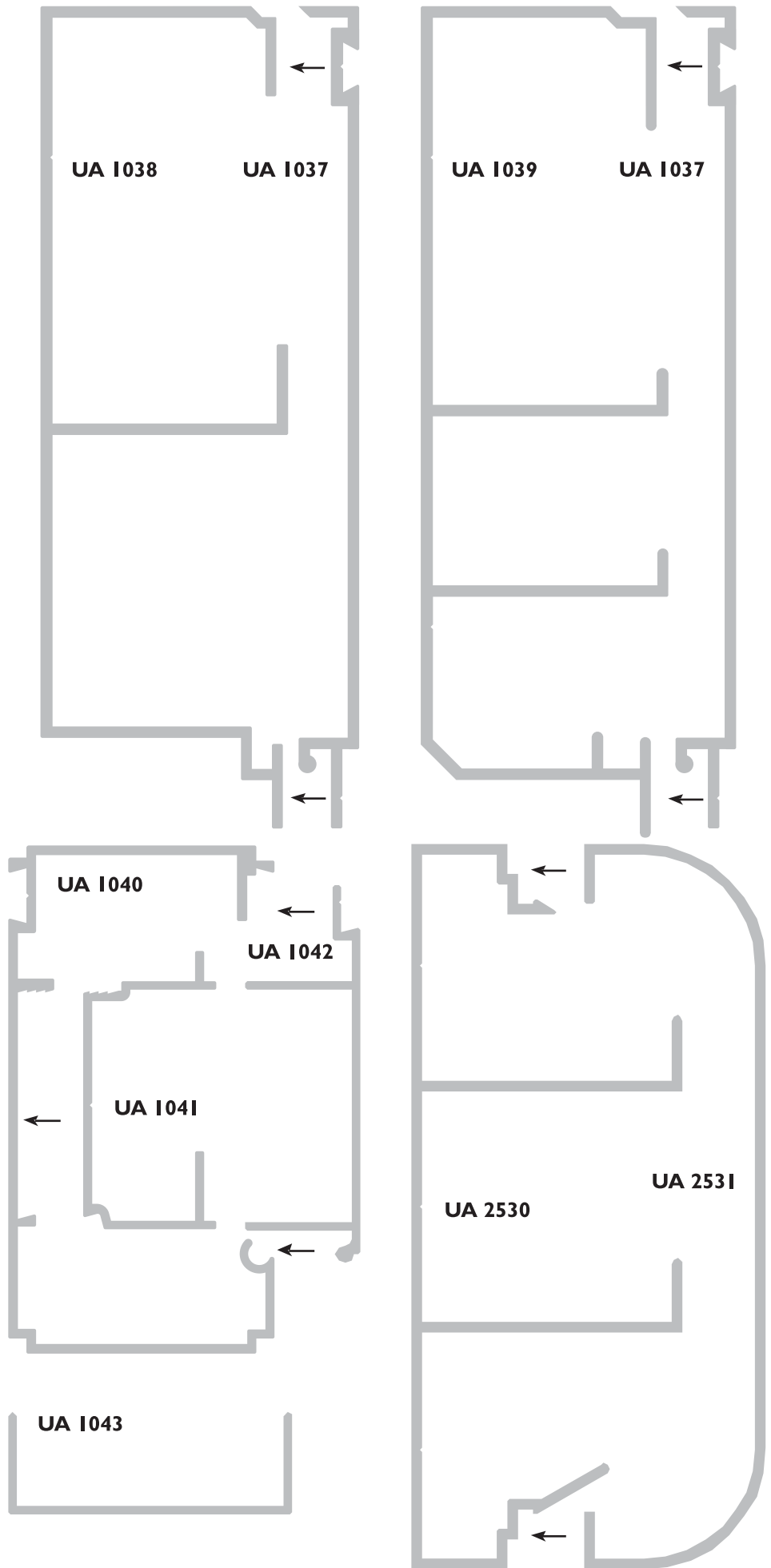
**UA I041**  
DUCT DIVIDER  
kg/m 0.400 P 196  
OAD 46 x 22

**UA I042**  
DUCT LID  
kg/m 0.412 P 207  
OAD 62.5 x 19

**UA I043**  
DUCT BASE CHANNEL  
kg/m 0.307 P 158  
OAD 47 x 17

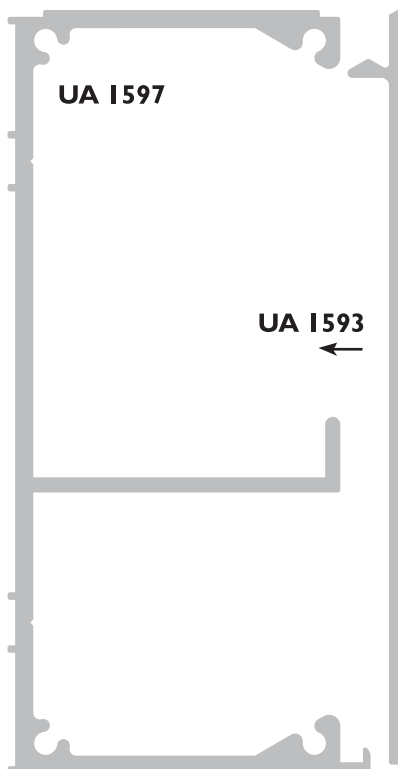
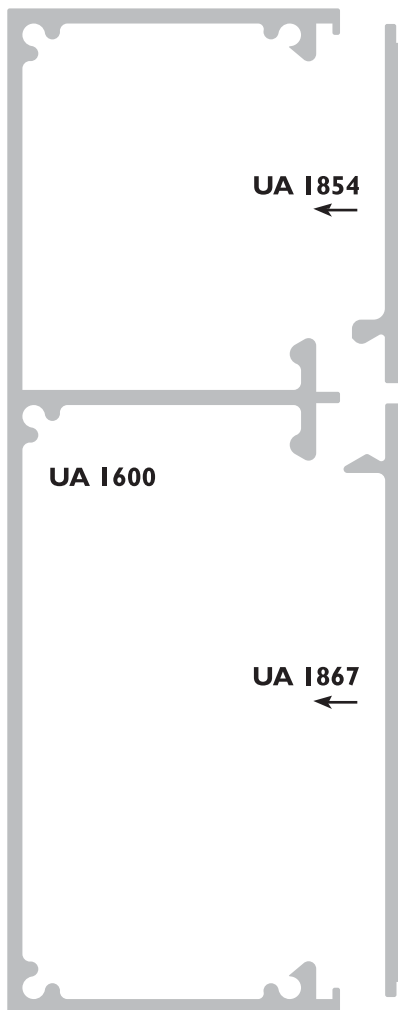
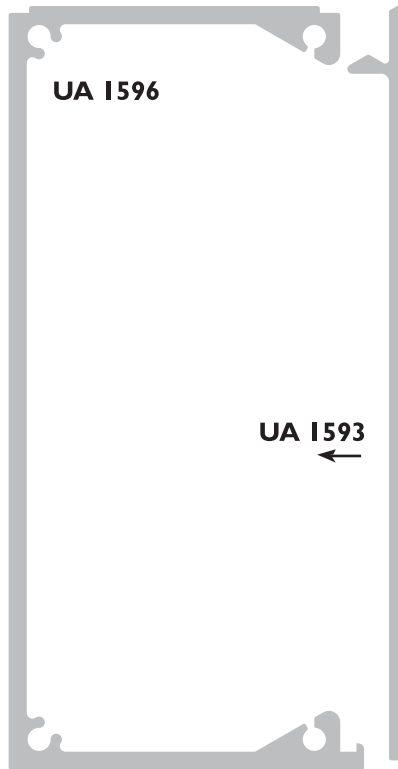
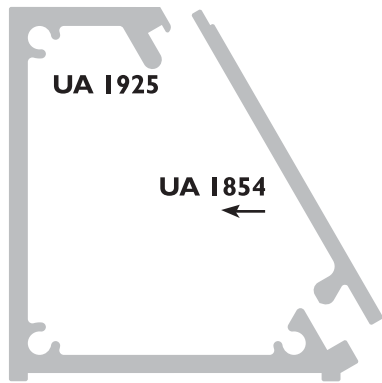
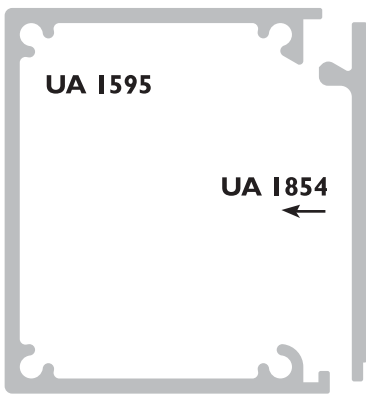
**UA 2530**  
DUCT BASE  
kg/m 1.457 P 612  
OAD 120 x 45.2

**UA 2531**  
DUCT LID  
kg/m 0.581 P 354  
OAD 120 x 30



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**UA 1593**  
 DUCT LID ( KSD18, 18/2 )  
 kg/m .564 P 214  
 OAD 100 x 7.5

**UA 1595**  
 DUCT CHANNEL ( KMP09 )  
 kg/m 0.828 P 307  
 OAD 51 x 43

**UA 1596**  
 DUCT CHANNEL ( KSD18 )  
 kg/m 1.367 P 418  
 OAD 101 x 47

**UA 1597**  
 DUCT CHANNEL ( KSD18/2 )  
 kg/m 1.699 P 522  
 OAD 101 x 48

**UA 1600**  
 DUCT CHANNEL ( KSD27 )  
 kg/m 1.649 P 593  
 OAD 133 x 44

**UA 1854**  
 DUCT LID Sml ( KMP09, KSD17, KSD27 )  
 kg/m 0.282 P 107  
 OAD 47.5 x 6.35

**UA 1867**  
 DUCT LID Lge ( KSD27 )  
 kg/m 0.450 P 171  
 OAD 78.5 x 7.5

**UA 1925**  
 DUCT CHANNEL ( KSD17 )  
 kg/m 0.899 P 265  
 OAD 49.5 x 46.2

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**UA 5346**

DUCT LID

kg/m 0.442 P 169

OAD 77.9 × 7.5

**UA 5917**

DOUBLE DUCT CHANNEL

kg/m 1.963 P 710

OAD 151 × 59

**UA 5918**

DOUBLE DUCT LID

kg/m 0.402 P 154

OAD 70.5 × 7.5

**UA 6214**

DOUBLE DUCT CHANNEL

kg/m 2.632 P 910

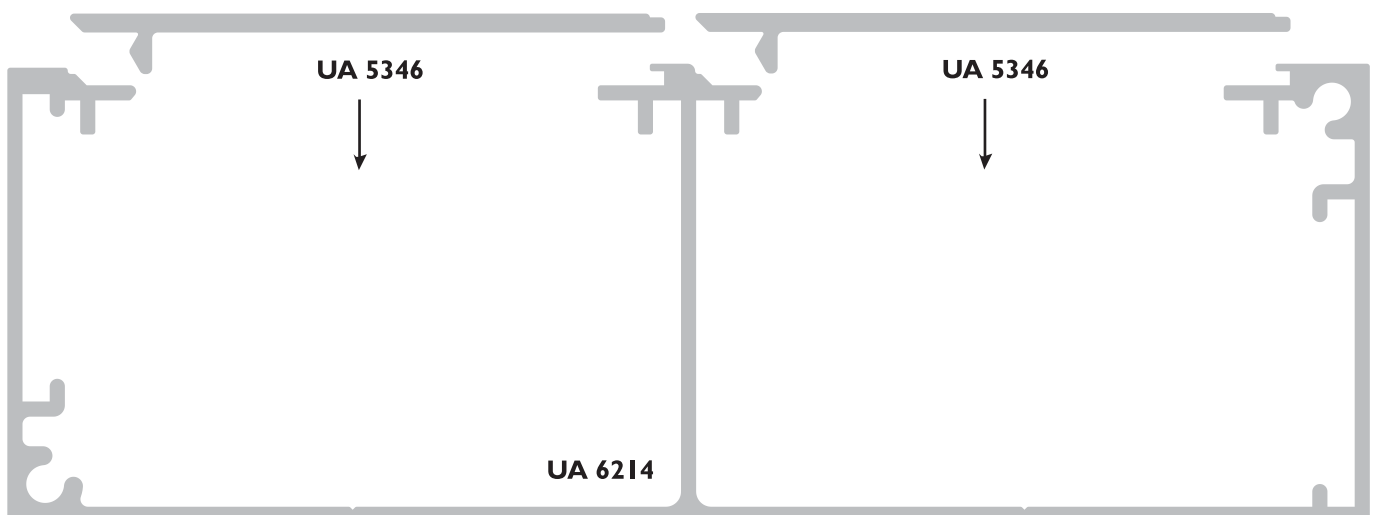
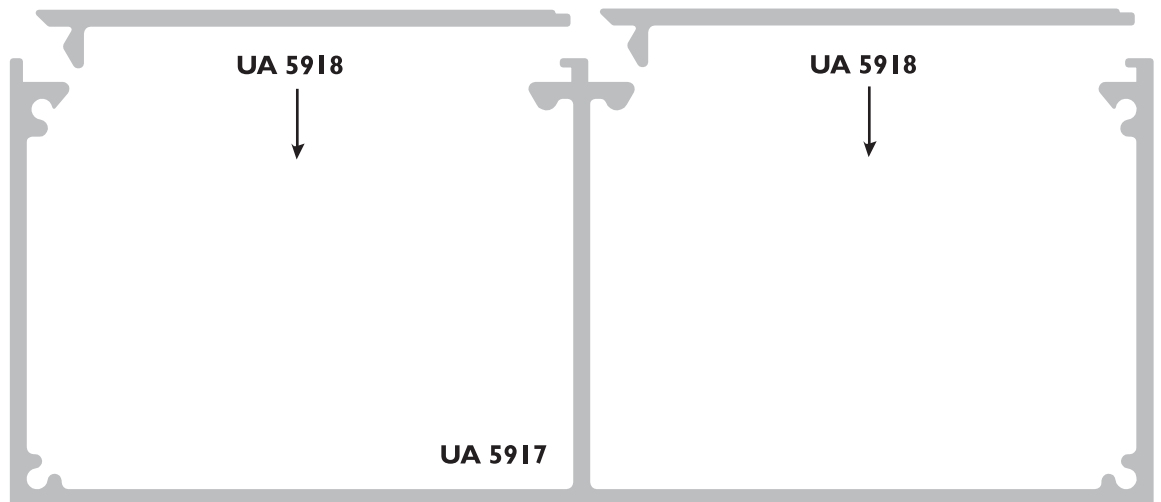
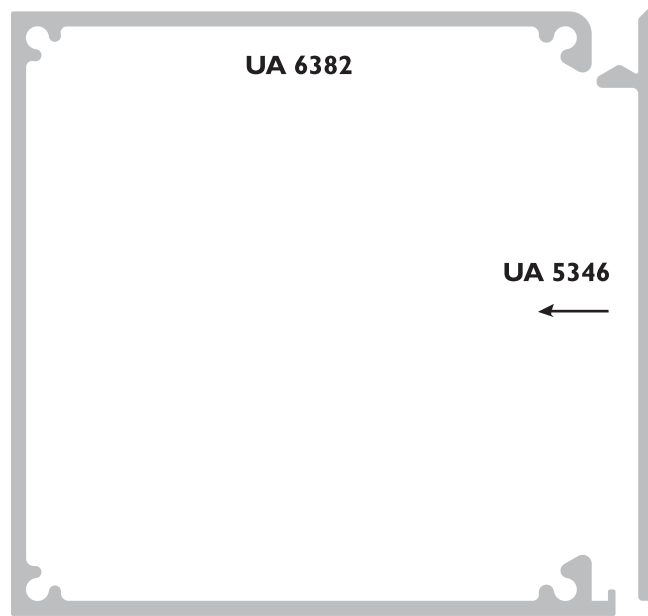
OAD 180 × 60

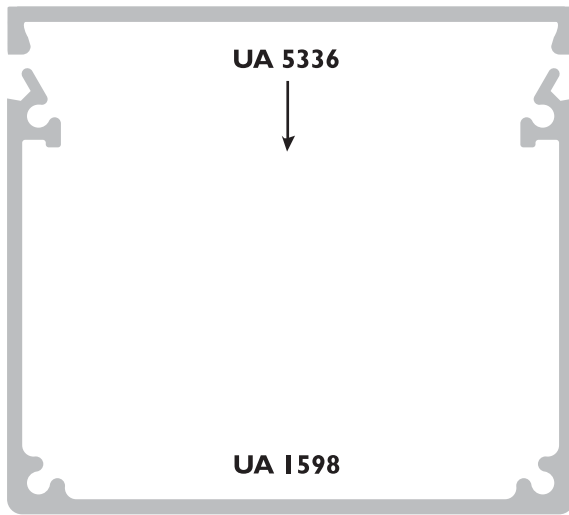
**UA 6382**

DUCT CHANNEL

kg/m 1.413 P 511

OAD 80 × 80





**UA 1594**

DUCT CHANNEL ( KMP13 )  
kg/m 1.856 P 512  
OAD 91.5 x 55

**UA 1598**

DUCT CHANNEL ( KMP19 )  
kg/m 1.397 P 417  
OAD 75 x 59

**UA 5045**

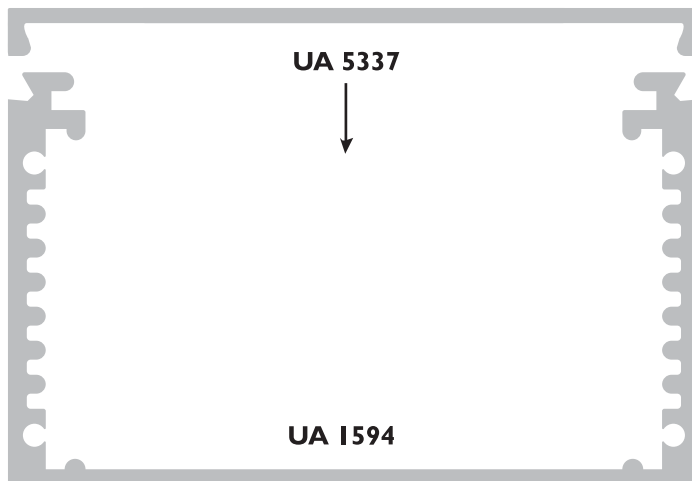
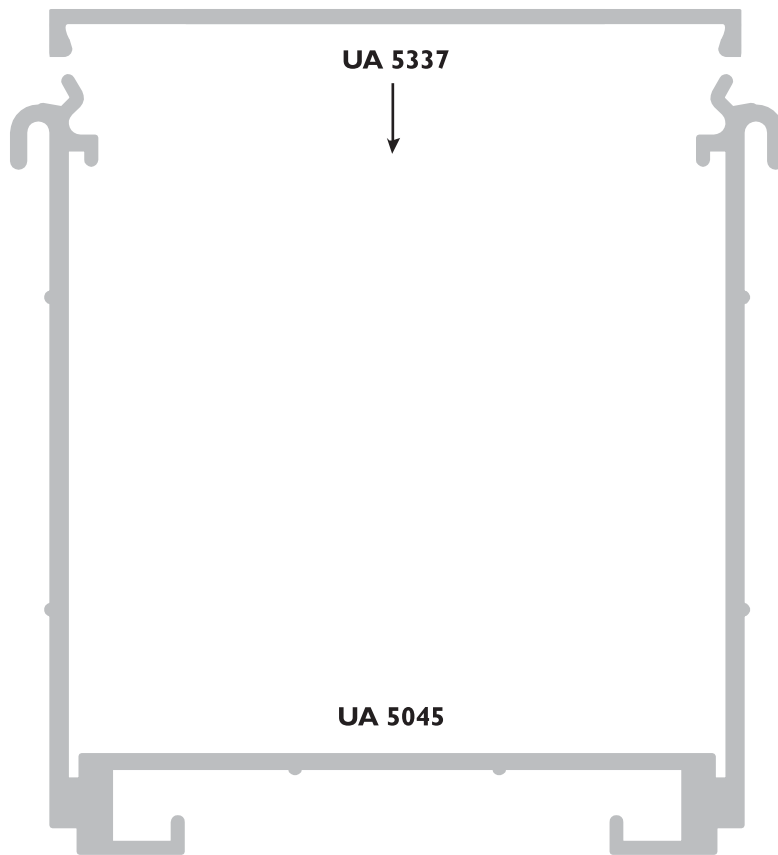
DUCT CHANNEL ( KPL04 )  
kg/m 2.303 P 722  
OAD 103 x 102.1

**UA 5336**

DUCT LID ( KMP19 )  
kg/m 0.384 P 173  
OAD 75 x 7.1

**UA 5337**

DUCT LID ( KMP13, KPL04 )  
kg/m 0.462 P 205  
OAD 91.5 x 6.75



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**UA 2046**

DUCT CHANNEL ( KMP26 )  
 kg/m 1.802 P 586  
 OAD 120 x 62

**UA 2047**

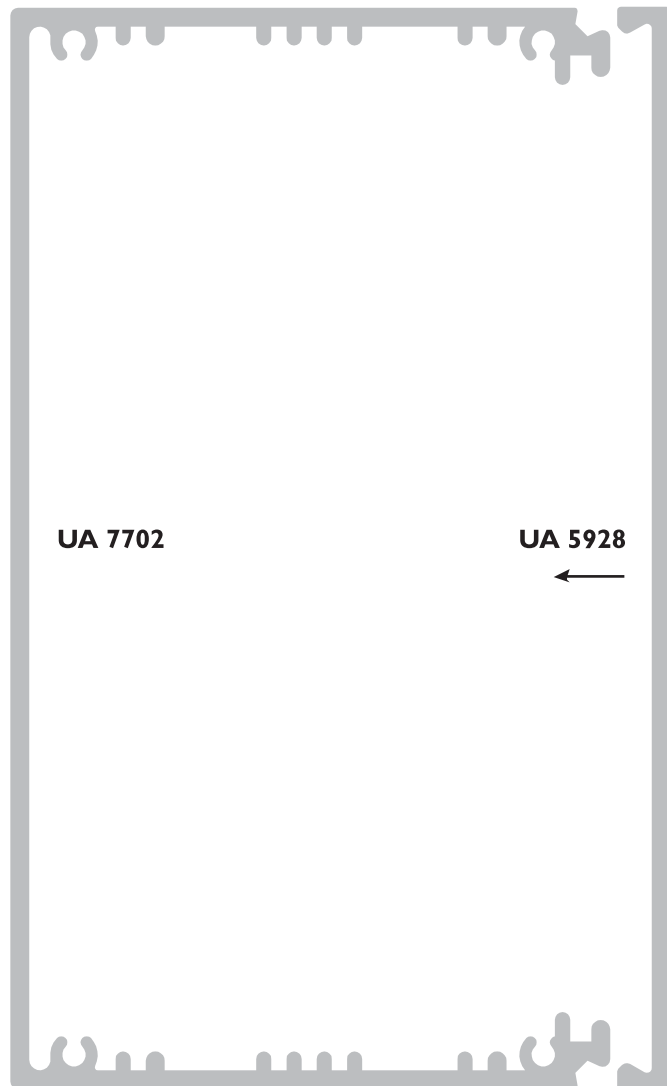
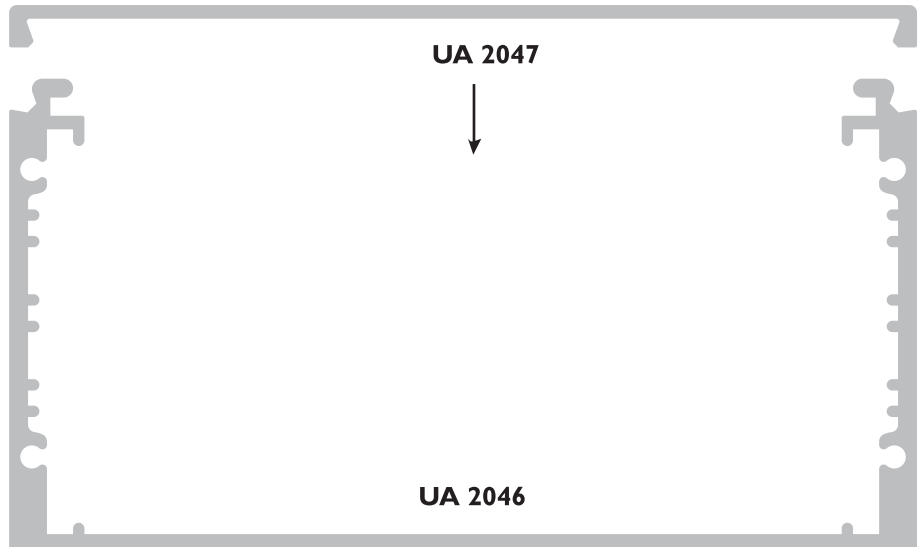
DUCT LID ( KMP26 )  
 kg/m 0.639 P 259  
 OAD 120 x 5.6

**UA 5928**

DUCT LID ( KMP20 )  
 kg/m 1.046 P 310  
 OAD 143 x 7.13

**UA 7702**

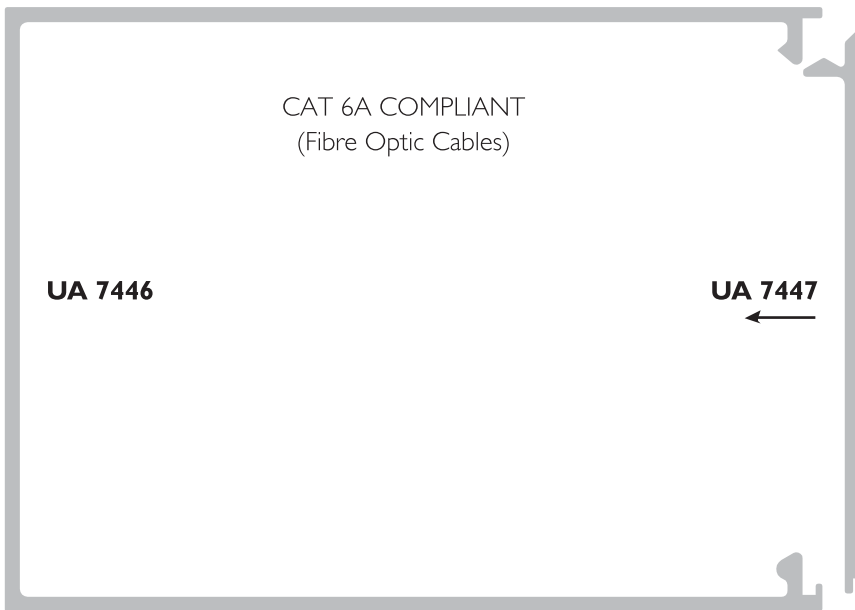
DUCT CHANNEL ( KMP20 )  
 kg/m 2.506 P 745  
 OAD 143 x 79.3



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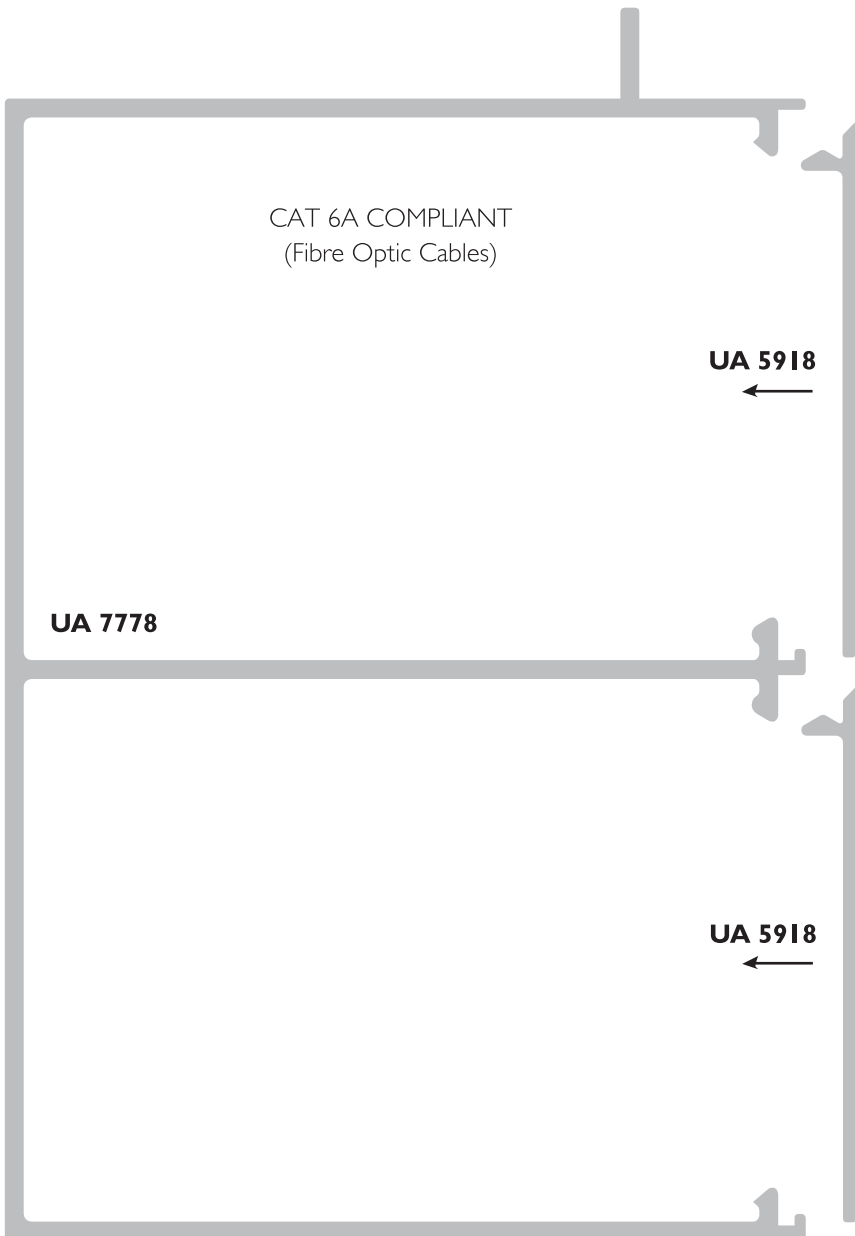


**UA 5918**  
DOUBLE DUCT LID  
kg/m 0.402 P 154  
OAD 70.5 x 7.5

**UA 7446**  
DUCT CHANNEL  
kg/m 1.655 P 613  
OAD 108.1 x 80

**UA 7447**  
DUCT LID  
kg/m 0.421 P 162  
OAD 74.45 x 7.5

**UA 7778**  
DOUBLE DUCT CHANNEL  
kg/m 3.335 P 993  
OAD 163 x 105.9



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**UA 4476**

DUCT CHANNEL ( KPL05 )  
kg/m 3.169 P 855  
OAD 153.67 x 108.96

**UA 5928**

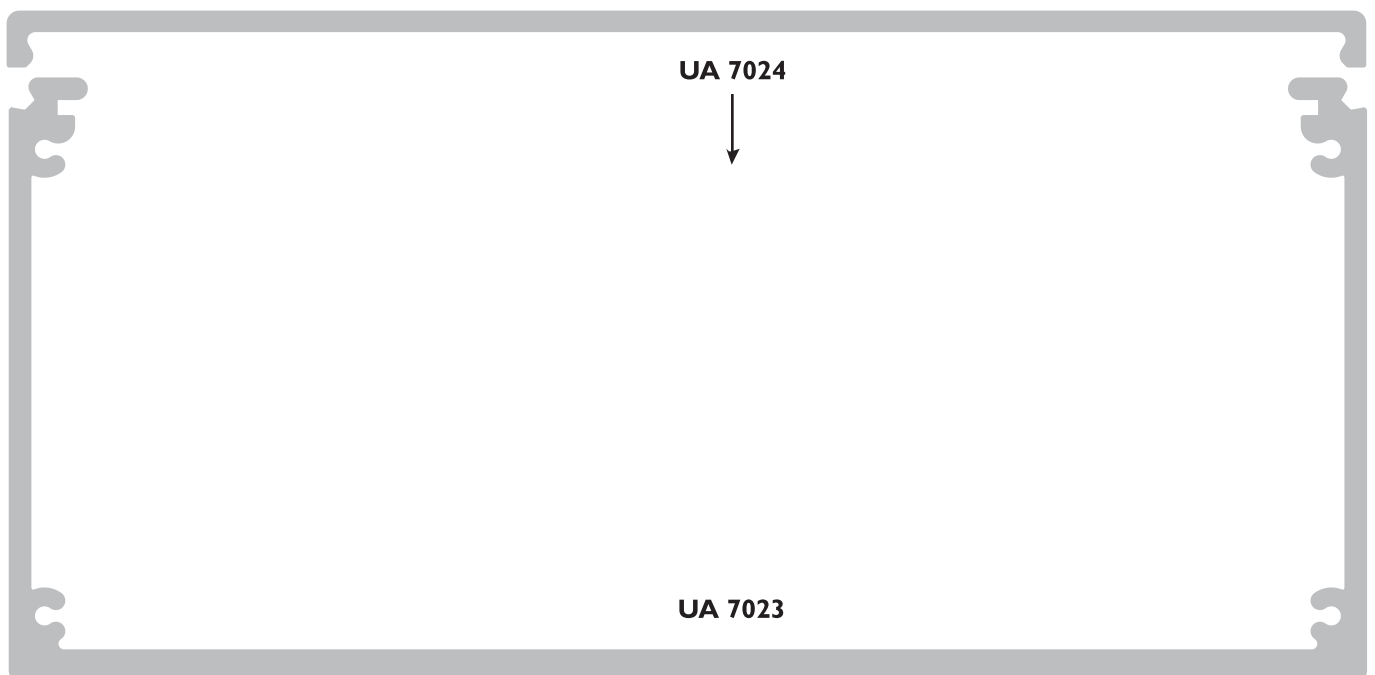
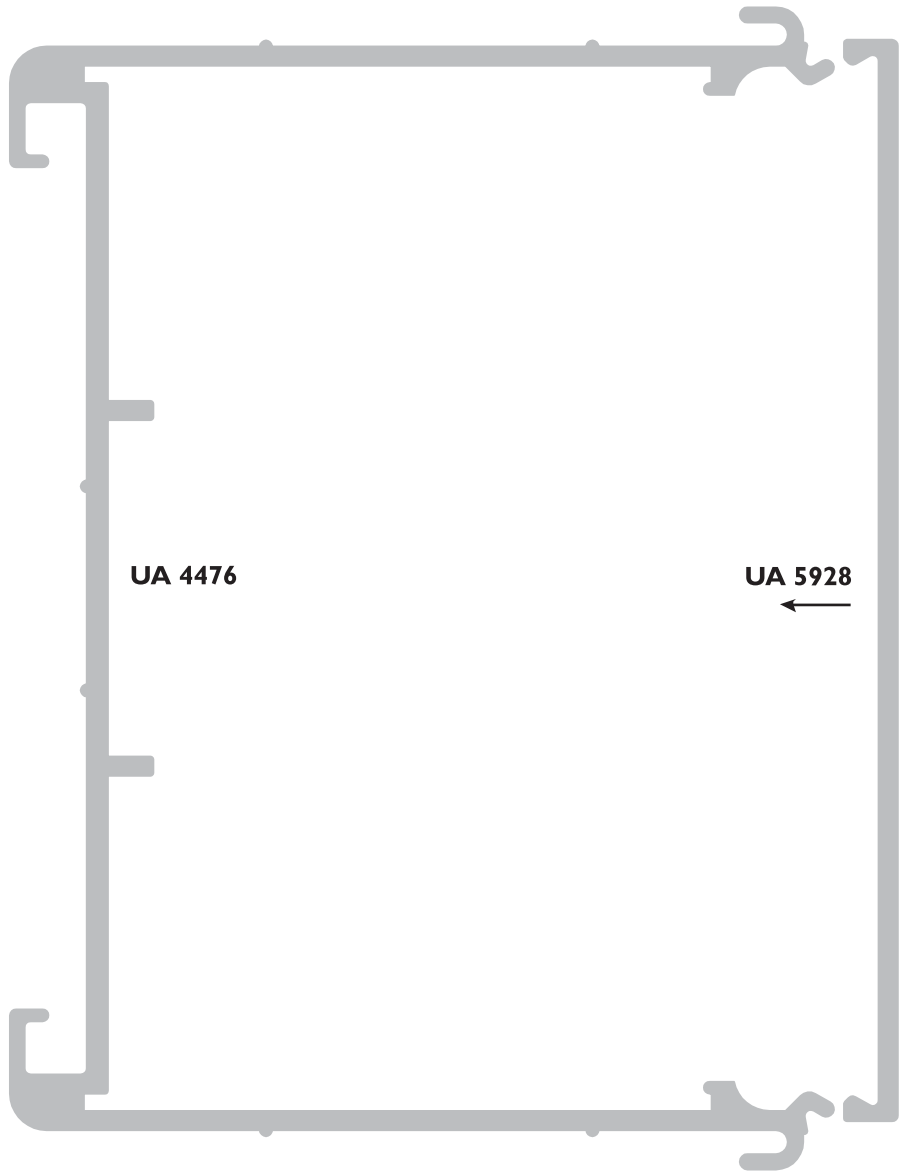
DUCT LID ( KPL05 )  
kg/m 1.046 P 310  
OAD 143 x 7.13

**UA 7023**

DUCT CHANNEL ( KMP25 )  
kg/m 3.329 P 734  
OAD 180 x 80

**UA 7024**

DUCT LID ( KMP25 )  
kg/m 1.283 P 382  
OAD 180 x 7.2



DIE No	DESCRIPTION
UA 4528	STANDARD BOARD
UA 4532	WINDOW FLASHING
UA 4533	HEAD FLASHING
UA 4535	LOCATOR CLIP
UA 4862	BOARD STARTER
UA 4863	VERTICAL BOARD STARTER
UA 4917	TEE BOARD
UA 5059	TRADITIONAL BOARD
UA 5104	FULL CORRUGATE BOARD
UA 5831	SOFFIT CLIP BASE
UA 5832	SOFFIT 65mm CLIP TOP
UA 5833	SOFFIT 30mm CLIP TOP
UA 6323	SCALLOPED JOINTER TOP
UA 6324	2 PIECE JOINTER BASE
AUS 6478	SHADOLINE FLAT BOARD
UA 6608	FEMALE SCALLOPED CORNER
UA 6609	MALE SCALLOPED CORNER
UA 6975	SHADOLINE BOARD
UA 7094	FEMALE FLAT CORNER
UA 7095	MALE FLAT CORNER
UA 7096	FLAT JOINTER TOP
UA 7401	INFINITY BOARD
UA 7726	SHADO 100 BOARD
UA 7837	FIN BOARD
UA 7868	SHADO 140 BOARD

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 FORWARD ALL ENQUIRIES TO THE BUILDING PRODUCTS DIVISION**

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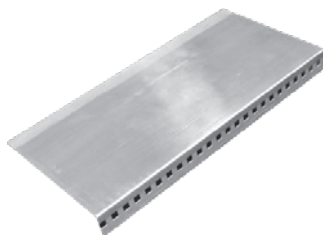
**UA 4528** UltraClad  
STANDARD BOARD  
kg/m 1.003 P 501  
OAD 190.5 x 15

**UA 6975** UltraClad  
SHADOLINE BOARD  
kg/m 1.167 P 562  
OAD 205 x 15  
Can be fitted VERTICALLY

**UA 7401** UltraClad  
INFINITY BOARD  
kg/m 1.159 P 546  
OAD 205 x 15  
Can be fitted VERTICALLY

**UA 7726** UltraClad  
SHADO 100 BOARD  
kg/m 1.303 P 629  
OAD 205.16 x 15  
Can be fitted VERTICALLY

**UA 7868** UltraClad  
SHADO 140 BOARD  
kg/m 1.274 P 614  
OAD 205.16 x 15  
Can be fitted VERTICALLY



ALUMINIUM VERMIN STRIP  
OAD 120 x 20  
Length 2400mm  
Square holes 5 x 5mm  
Code: ALVERMIN2.4

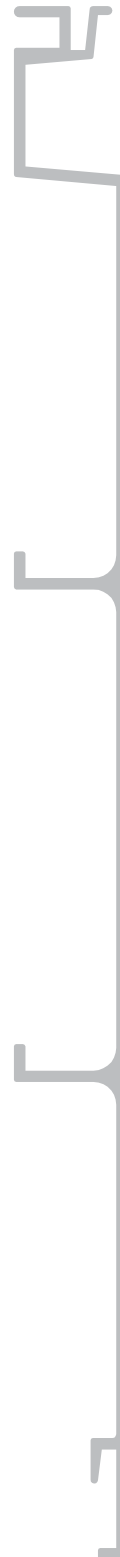
UA 7401



UA 4528



UA 6975



UA 7726



UA 7868



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OTHERWISE INDICATED.  
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**UA 5104**



**UA 5059**



**UA 4917**



**UA 7837**



**UA 4917** UlltraClad  
TEE BOARD  
kg/m 0.886 P 444  
OAD 150 x 15

**UA 5059** UlltraClad  
TRADITIONAL BOARD  
kg/m 0.842 P 424  
OAD 157 x 15

**UA 5104** UlltraClad  
FULL CORRUGATE BOARD  
kg/m 1.299 P 619  
OAD 203.5 x 15

**UA 7837** UlltraClad  
FIN BOARD  
kg/m 3.445 P 857  
OAD 193 x 40  
Can be fitted VERTICALLY

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**UA 4532** UltraClad  
WINDOW FLASHING  
kg/m 0.420 P 214  
OAD 65 x 18.5

**UA 4533** UltraClad  
HEAD FLASHING  
kg/m 0.497 P 249  
OAD 78.77 x 37.33

**UA 4535** UltraClad  
LOCATOR CLIP  
With Screws ( Bags 100 )  
kg/m 0.198 P 105  
OAD 35.8 x 13.9

**UA 4862** UltraClad  
BOARD STARTER  
kg/m 0.448 P 228  
OAD 94.5 x 15

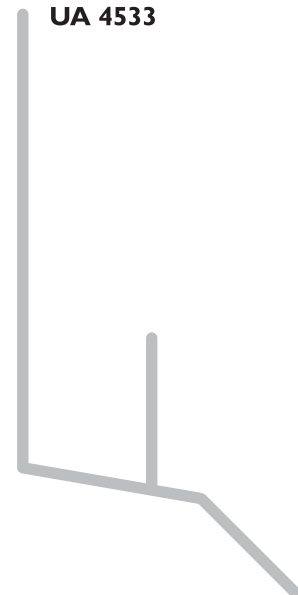
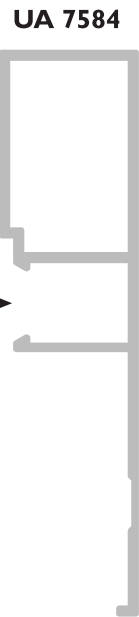
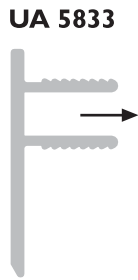
**UA 4863** UltraClad  
VERTICAL BOARD STARTER  
kg/m 0.554 P 280  
OAD 95 x 18.5

**UA 5831** UltraClad  
SOFFIT CLIP BASE  
kg/m 0.416 P 198  
OAD 70 x 15

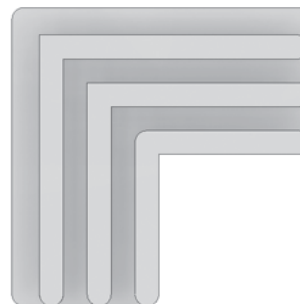
**UA 5832** UltraClad  
SOFFIT 65mm CLIP TOP  
kg/m 0.367 P 189  
OAD 65 x 14

**UA 5833** UltraClad  
SOFFIT 30mm CLIP TOP  
kg/m 0.215 P 119  
OAD 30 x 14

**UA 7584** UltraClad  
JAMB / SILL CLIP  
kg/m 0.600 P 222  
OAD 75 x 18.5



**CORNER STAKE - PLASTIC**

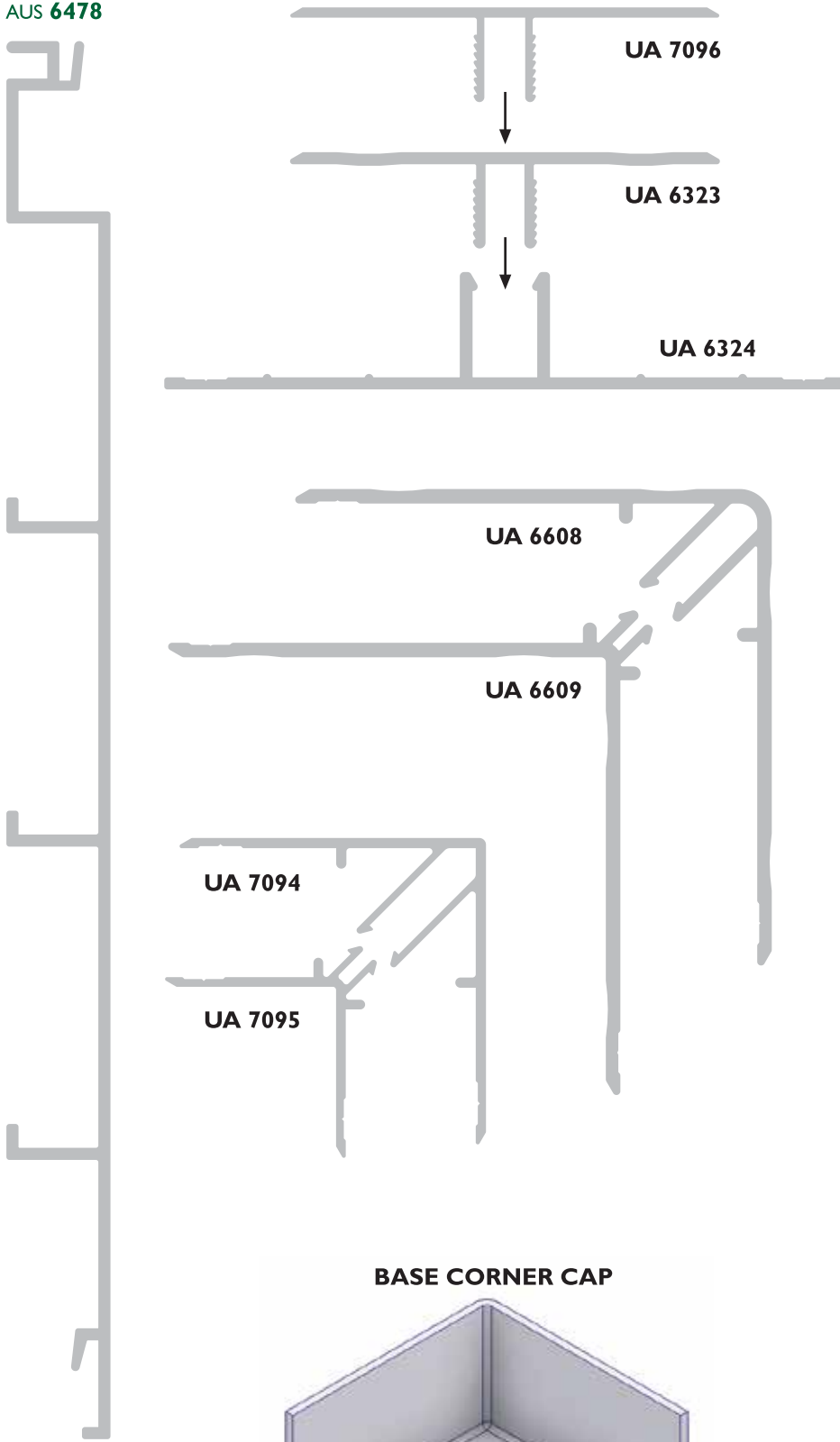


Fits 7584  
Code: CLADSTAKECNR



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AUS 6478



**UA 6323** UlltraClad  
SCALLOPED JOINTER TOP  
kg/m 0.338 P 184  
OAD 63 x 13.9

**UA 6324** UlltraClad  
2 PIECE JOINTER BASE  
kg/m 0.536 P 269  
OAD 100 x 17

**AUS 6478** UlltraClad  
SHADOLINE FLAT BOARD  
kg/m 1.207 P 599  
OAD 205 x 15

**UA 6608** UlltraClad  
FEMALE SCALLOPED CORNER  
kg/m 0.680 P 355  
OAD 70.1 x 70.1

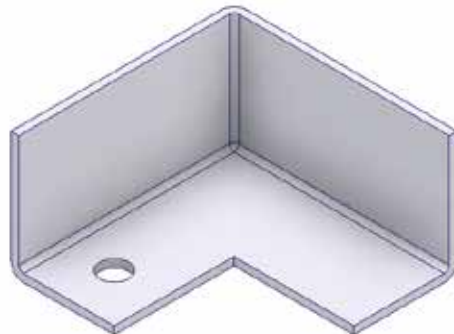
**UA 6609** UlltraClad  
MALE SCALLOPED CORNER  
kg/m 0.594 P 300  
OAD 71.3 x 71.3

**UA 7094** UlltraClad  
FEMALE FLAT CORNER  
kg/m 0.465 P 257  
OAD 45 x 45

**UA 7095** UlltraClad  
MALE FLAT CORNER  
kg/m 0.266 P 147  
OAD 32.81 x 32.81

**UA 7096** UlltraClad  
FLAT JOINTER TOP  
kg/m 0.338 P 184  
OAD 63 x 13.9

**BASE CORNER CAP**



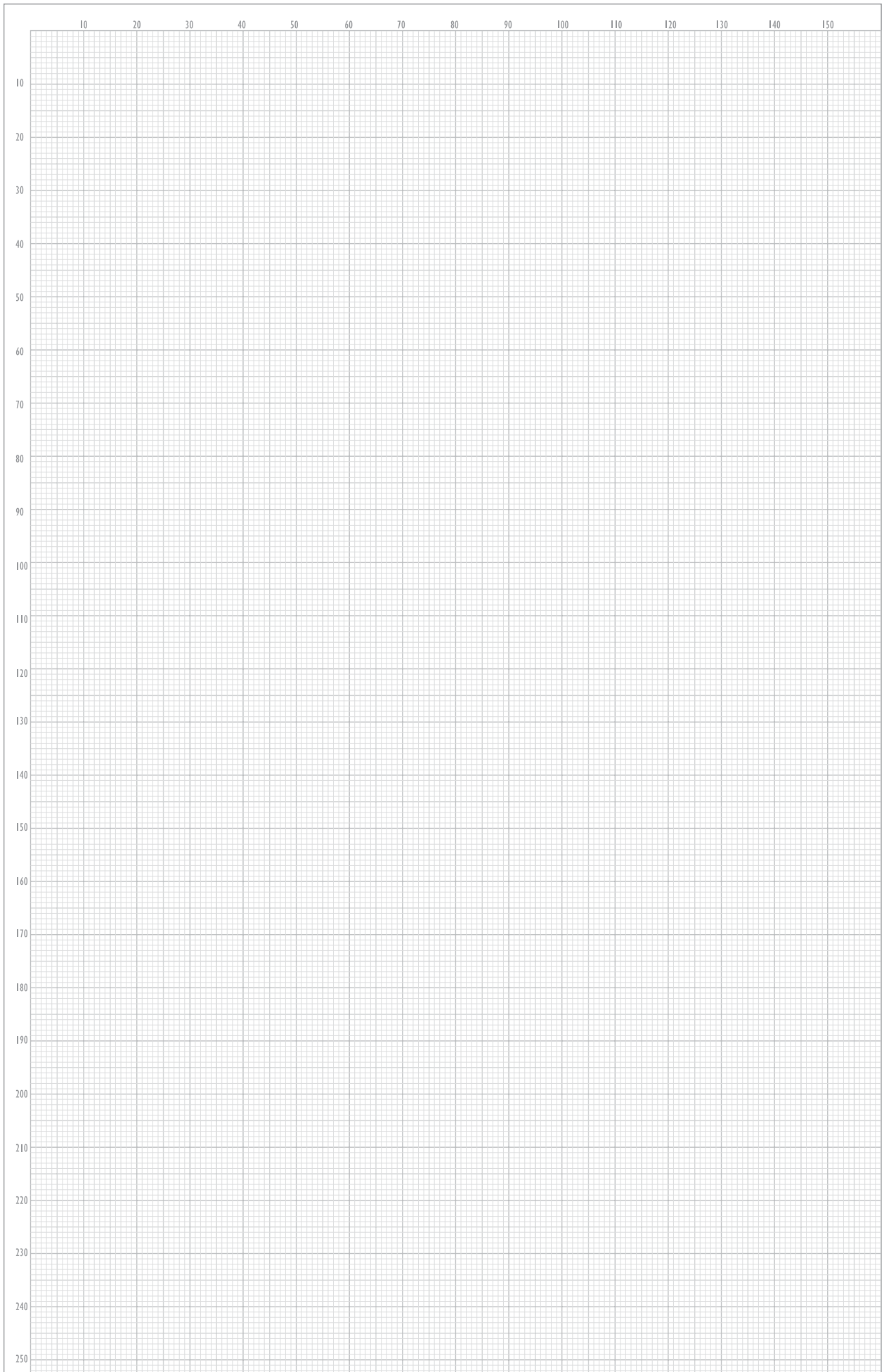
Fits 7094  
Code: CLADCORNERCAP

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

**NB: ULLTRACLAD PRODUCTS SHOULD BE INSTALLED BY APPROVED INSTALLERS  
FORWARD ALL ENQUIRIES TO THE BUILDING PRODUCTS DIVISION**



DIE No	DESCRIPTION	DIE No	DESCRIPTION
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**T2 SHOP FRONT**

UA 7558	SILL TRAY BASE
UA 7559	SILL TRAY
UA 7560	HEAD / JAMB
UA 7561	FLAT SUPPORT INFILL
UA 7562	GLAZING ADAPTOR
UA 7563	POCKET FILLER
UA 7564	GLAZING ADAPTOR
UA 7565	SINGLE GLAZE ADAPTOR
UA 7566	SILL / TRANSOM
UA 7567	CLOSER COVER
UA 7568	EXTENDED TRANSOM / SILL
UA 7569	SLOPED GLAZING BEAD
UA 7570	SLOPED GLAZING BEAD
UA 7571	SINGLE GLAZING BEAD
UA 7572	DOOR ADAPTOR
UA 7573	40mm DOOR ADAPTOR
UA 7581	GLAZING BEAD

**75mm SHOP FRONT**

UA 1285	MULLION
UA 1286	MULLION
UA 1287	GLAZING BEAD
UA 1288	MULLION
UA 1289	SILL TRANSOM
UA 1290	MULLION
UA 1291	GLAZING INFILL
UA 1292	FLUSH INFILL
UA 1333	POCKET FILLER

**100mm SHOP FRONT**

UA 1291	GLAZING INFILL
UA 1292	FLUSH INFILL
UA 1295	MULLION
UA 1296	GLAZING BEAD
UA 1297	SILL TRANSOM
UA 1299	MULLION
UA 1333	POCKET FILLER
UA 3088	PLAIN MULLION
UA 3920	GLAZING INFILL
UA 3921	GLAZING BEAD
UA 3923	MULLION
UA 3996	MULLION
UA 4837	POCKET FILLER
UA 4864	POCKET FILLER

**GENERAL SHOP FRONT**

UA 1293	FLASHING
UA 1294	CORNER POST
UA 1298	FLASHING
UA 1309	DOOR HANDLE
AUS 8606	MULLION
AUS 8607	FLUSH INFILL

**COMMERCIAL DOOR**

UA 1070	TOP RAIL
UA 1300	HINGE STILE
UA 1301	WOOLPILE STILE
UA 1302	PLAIN STILE
UA 1303	GLAZING BEAD
UA 1304	VISION RAIL CAP
UA 1305	TOP TRACK
UA 1306	BOTTOM RAIL
UA 1307	BOTTOM TRACK
UA 1308	VISION RAIL
UA 1310	WOOLPILE DOOR STOP
UA 2369	STILE GUIDE
UA 2370	STILE
UA 3922	GLAZING BEAD
UA 4175	STILE
UA 4576	STILE
UA 4577	HINGE STILE
UA 4907	HINGE STILE
UA 4908	LOCK STILE
UA 4909	TOP RAIL
UA 4910	MID RAIL
UA 4911	BOTTOM RAIL

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**UA 7558**

SILL TRAY BASE  
kg/m 0.617 P 281  
OAD 104.1 x 29.8

**UA 7559**

SILL TRAY  
kg/m 1.225 P 454  
OAD 119.6 x 60.4

**UA 7560**

HEAD / JAMB  
kg/m 1.528 P 571  
OAD 100 x 50

**UA 7561**

FLAT SUPPORT INFILL  
kg/m 0.792 P 283  
OAD 89 x 23.2

**UA 7562**

GLAZING ADAPTOR  
kg/m 0.640 P 301  
OAD 89 x 23.2

**UA 7563**

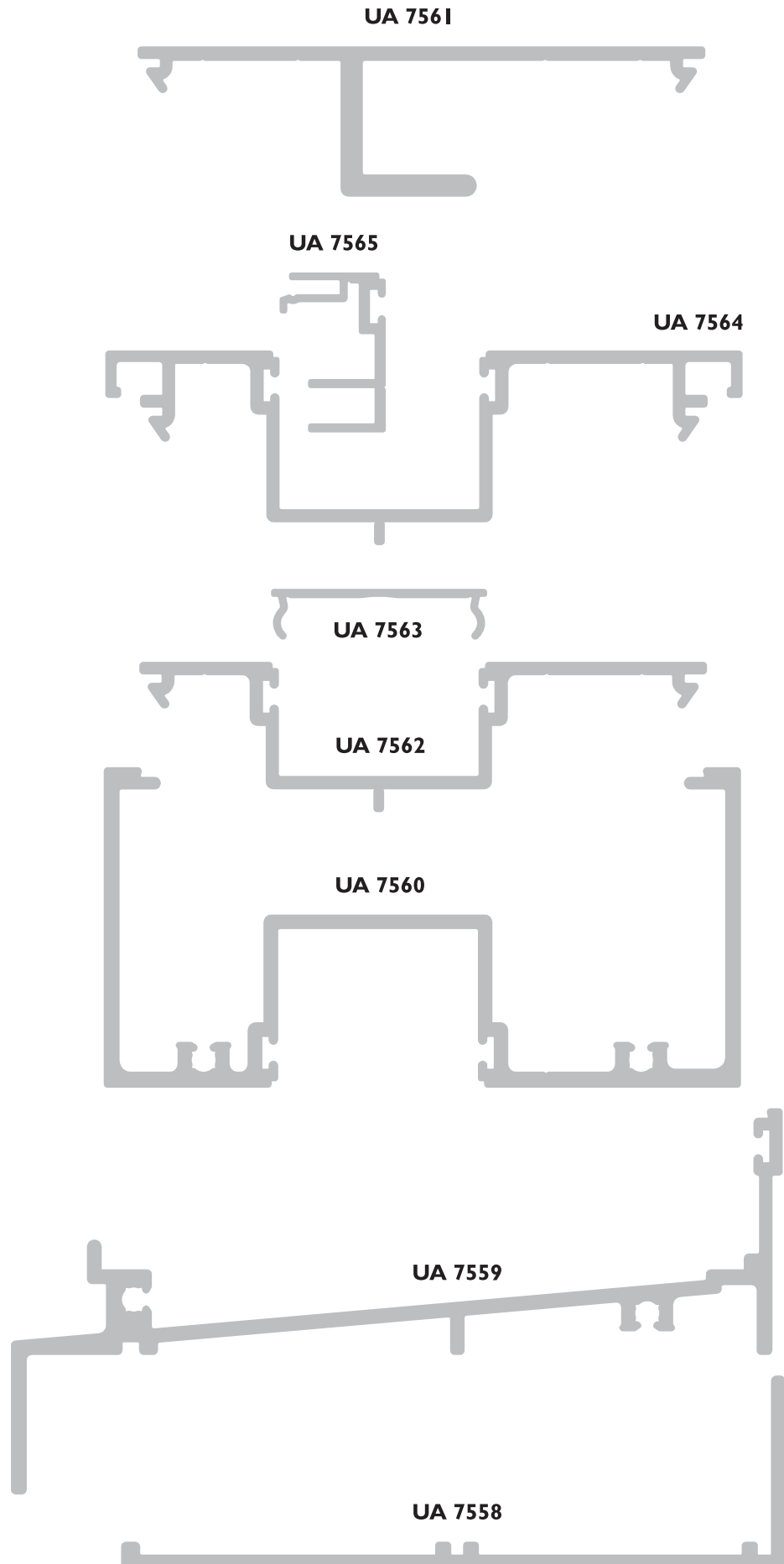
POCKET FILLER  
kg/m 0.144 P 98  
OAD 33.8 x 7.75

**UA 7564**

GLAZING ADAPTOR  
kg/m 0.867 P 416  
OAD 100 x 30.2

**UA 7565**

SINGLE GLAZE ADAPTOR  
kg/m 0.270 P 158  
OAD 25 x 16.5



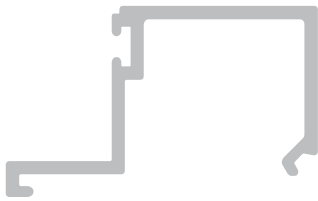
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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**UA 7581**



**UA 7571**



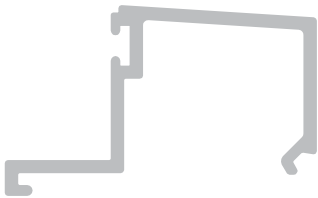
**UA 7566**

SILL / TRANSOM  
kg/m 1.316 P 421  
OAD 100 x 30.5

**UA 7567**

CLOSER COVER  
kg/m 0.695 P 223  
OAD 89 x 5

**UA 7569**



**UA 7570**



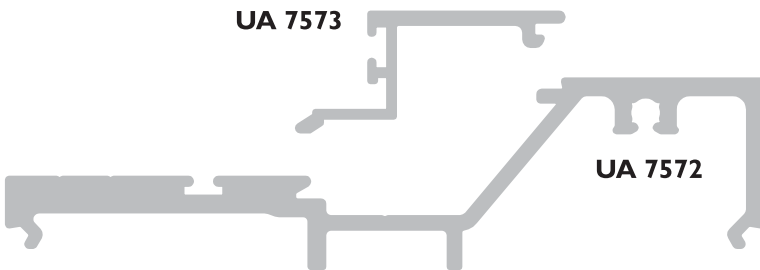
**UA 7568**

EXTENDED TRANSOM / SILL  
kg/m 1.685 P 549  
OAD 100 x 60

**UA 7569**

SLOPED GLAZING BEAD  
kg/m 0.371 P 184  
OAD 41 x 25

**UA 7573**



**UA 7572**

**UA 7570**

SLOPED GLAZING BEAD  
kg/m 0.372 P 185  
OAD 41 x 25

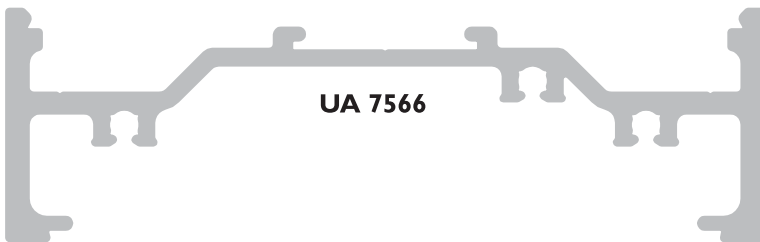
**UA 7571**

SINGLE GLAZING BEAD  
kg/m 0.378 P 188  
OAD 41 x 25

**UA 7572**

DOOR ADAPTOR  
kg/m 1.062 P 340  
OAD 100 x 25

**UA 7566**



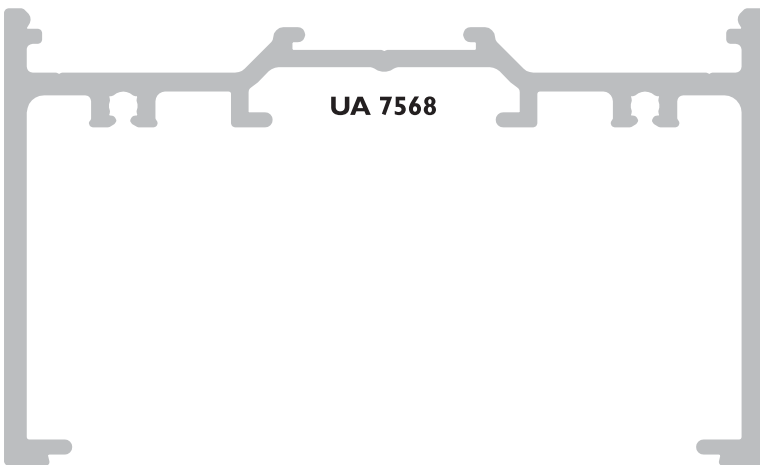
**UA 7573**

40mm DOOR ADAPTOR  
kg/m 0.242 P 122  
OAD 35.55 x 16

**UA 7581**

GLAZING BEAD  
kg/m 0.378 P 188  
OAD 41 x 25

**UA 7568**



**UA 7567**



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**UA I285**  
MULLION  
kg/m 1.380 P 499  
OAD 76.2 x 44.5

**UA I286**  
MULLION  
kg/m 1.779 P 313  
OAD 76.2 x 44.5

**UA I287**  
GLAZING BEAD  
kg/m 0.239 P 147  
OAD 30.8 x 18.5

**UA I288**  
MULLION  
kg/m 1.483 P 242  
OAD 76.2 x 44.5

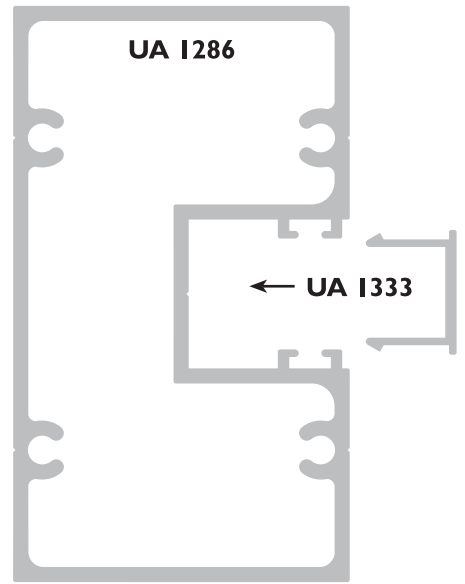
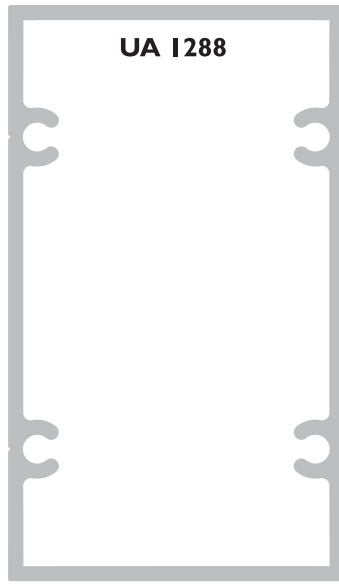
**UA I289**  
SILL TRANSOM  
kg/m 1.136 P 414  
OAD 76.2 x 44.5

**UA I290**  
MULLION  
kg/m 1.074 P 388  
OAD 76.2 x 44.5

**UA I291**  
GLAZING INFILL  
kg/m 0.719 P 268  
OAD 60.2 x 20.5

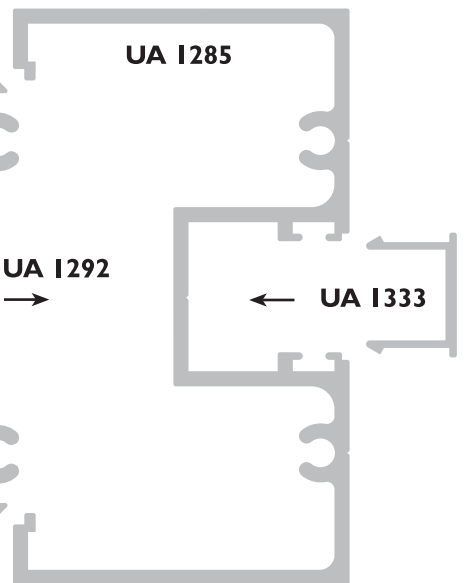
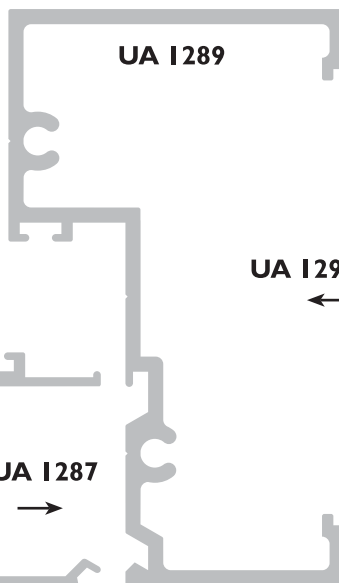
**UA I292**  
FLUSH INFILL  
kg/m 0.454 P 169  
OAD 60.2 x 6.7

**UA I333**  
POCKET FILLER  
kg/m 0.121 P 78  
OAD 16.5 x 12



← UA I292

← UA I291



← UA I292

→ UA I292

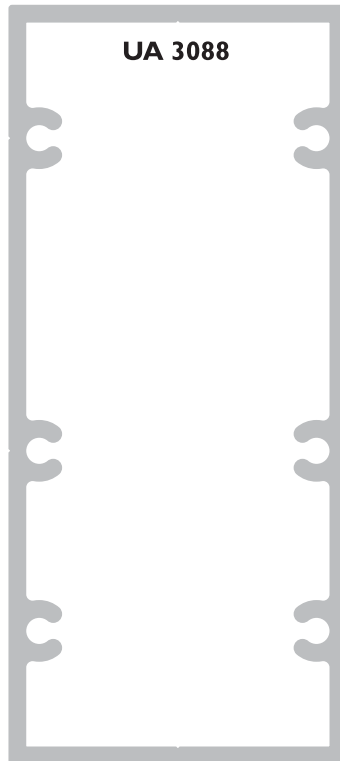
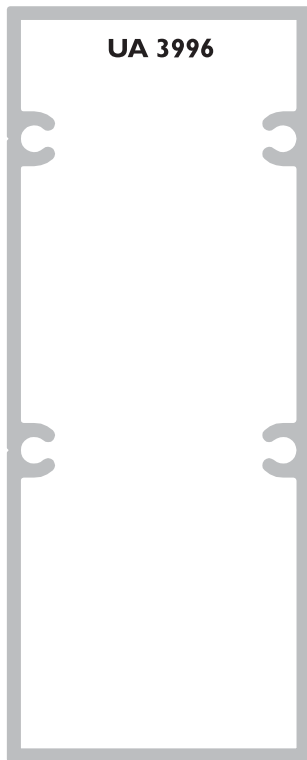
→ UA I287



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**UA 1291**  
GLAZING INFILL  
kg/m 0.719 P 268  
OAD 60.2 x 20.5

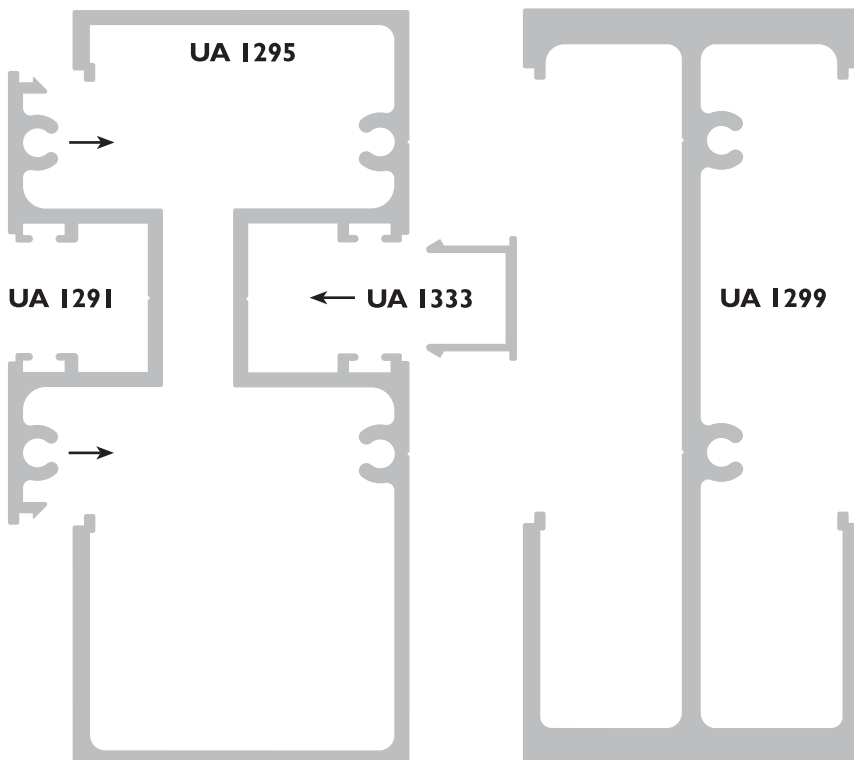
**UA 1295**  
MULLION  
kg/m 1.653 P 592  
OAD 100 x 44.5

**UA 1299**  
MULLION  
kg/m 2.335 P 536  
OAD 100 x 44.5

**UA 1333**  
POCKET FILLER  
kg/m 0.121 P 78  
OAD 16.5 x 12

**UA 3088**  
PLAIN MULLION  
kg/m 1.848 P 290  
OAD 100 x 44.5

**UA 3996**  
MULLION  
kg/m 1.397 P 282  
OAD 100 x 40



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**UA 1292**

FLUSH INFILL  
kg/m 0.454 P 169  
OAD 60.2 x 6.7

**UA 1296**

GLAZING BEAD  
kg/m 0.357 P 195  
OAD 54.55 x 18.5

**UA 1297**

SILL TRANSOM  
kg/m 1.650 P 515  
OAD 100 x 44.5

**UA 3920**

GLAZING INFILL  
kg/m 0.710 P 261  
OAD 60.2 x 20.5

**UA 3921**

GLAZING BEAD  
kg/m 0.341 P 189  
OAD 53.25 x 18.5

**UA 3923**

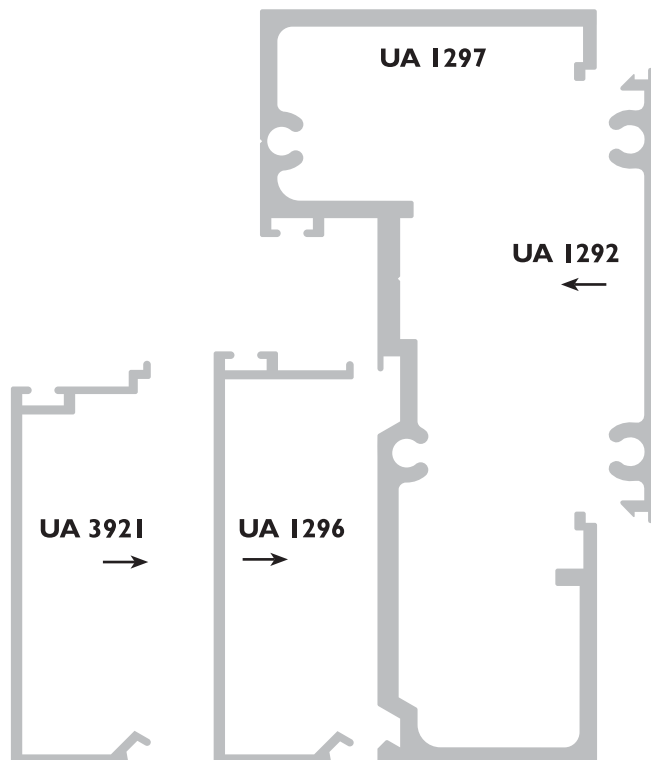
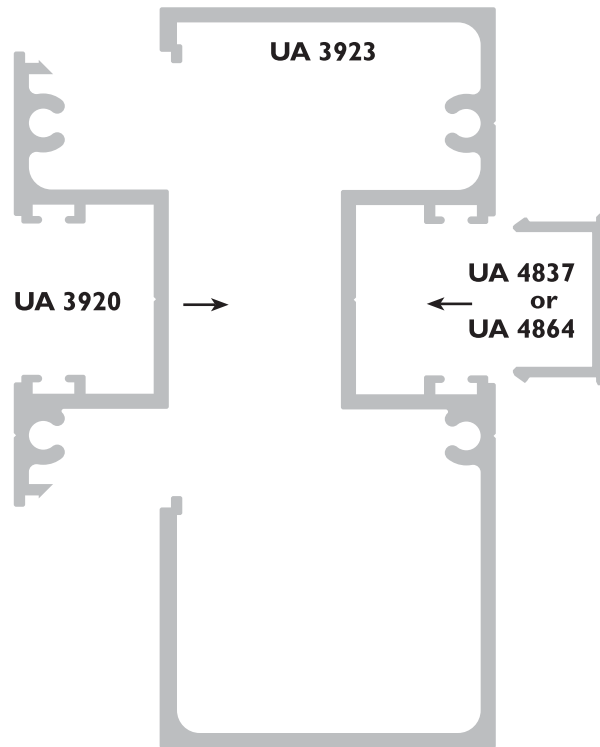
MULLION  
kg/m 1.645 P 586  
OAD 100 x 44.5

**UA 4837**

POCKET FILLER  
If Anodised  
kg/m 0.141 P 87  
OAD 21.6 x 11.7

**UA 4864**

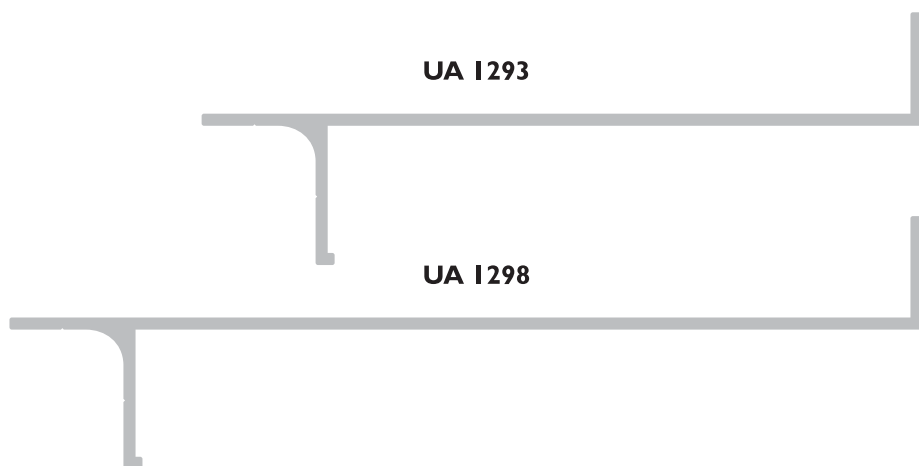
POCKET FILLER  
If Powdercoated  
kg/m 0.142 P 88  
OAD 21.6 x 12



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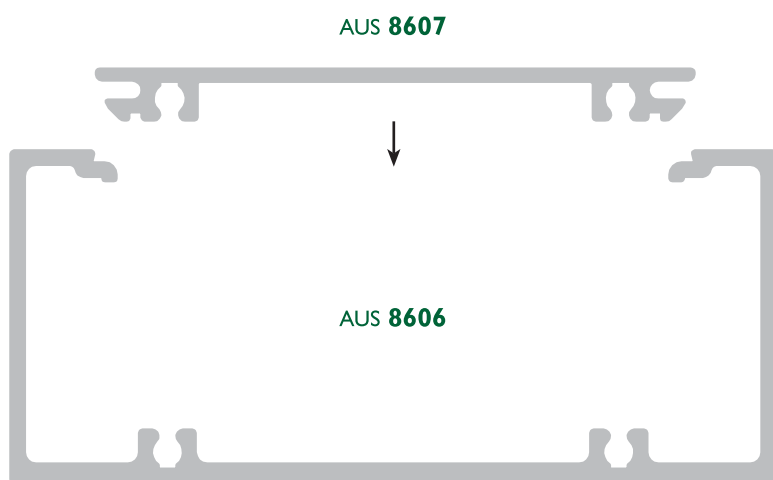
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**UA 1293**  
FLASHING  
kg/m 0.567 P 257  
OAD 95 x 33.5

**UA 1294**  
CORNER POST  
kg/m 1.720 P 602  
OAD 76 x 76

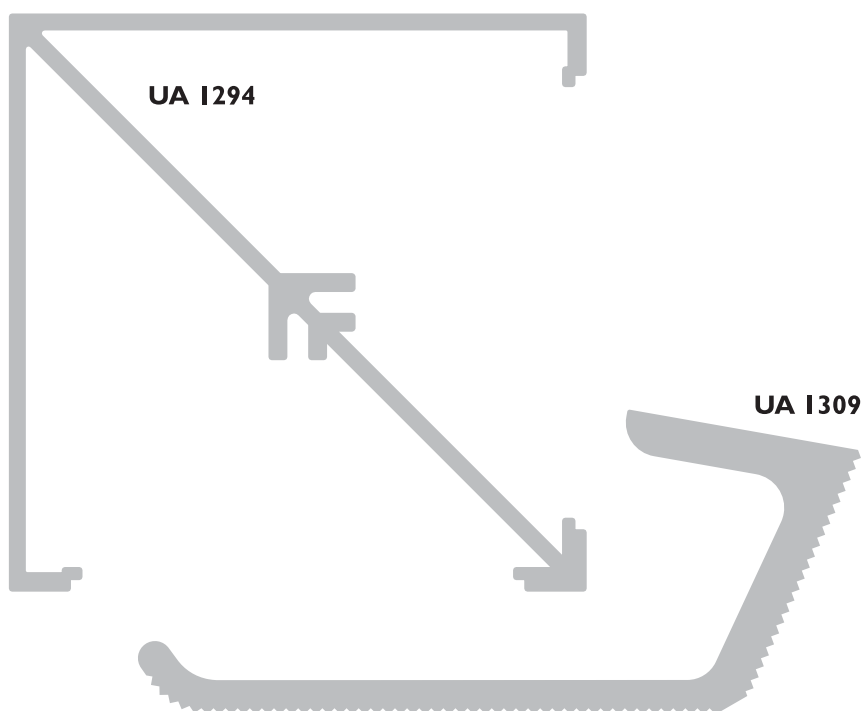
**UA 1298**  
FLASHING  
kg/m 0.676 P 308  
OAD 120 x 33.5



**UA 1309**  
DOOR HANDLE  
kg/m 1.817 P 331  
OAD 89.6 x 49.8

**AUS 8606**  
MULLION  
kg/m 1.283 P 462  
OAD 101.6 x 44

**AUS 8607**  
FLUSH INFILL  
kg/m 0.532 P 221  
OAD 79.6 x 6.9



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**UA 1070**

TOP RAIL  
kg/m 1.420 P 254  
OAD 60 x 42

**UA 1300**

HINGE STILE  
kg/m 1.132 P 219  
OAD 51 x 44

**UA 1301**

WOOLPILE STILE  
kg/m 1.161 P 222  
OAD 51 x 44

**UA 1302**

PLAIN STILE  
kg/m 1.112 P 217  
OAD 51 x 44

**UA 1303**

GLAZING BEAD  
kg/m 0.167 P 98  
OAD 14.8 x 13.6

**UA 1304**

VISION RAIL CAP  
kg/m 0.447 P 158  
OAD 42 x 15

**UA 1305**

TOP TRACK  
kg/m 1.002 P 339  
OAD 63 x 43

**UA 1306**

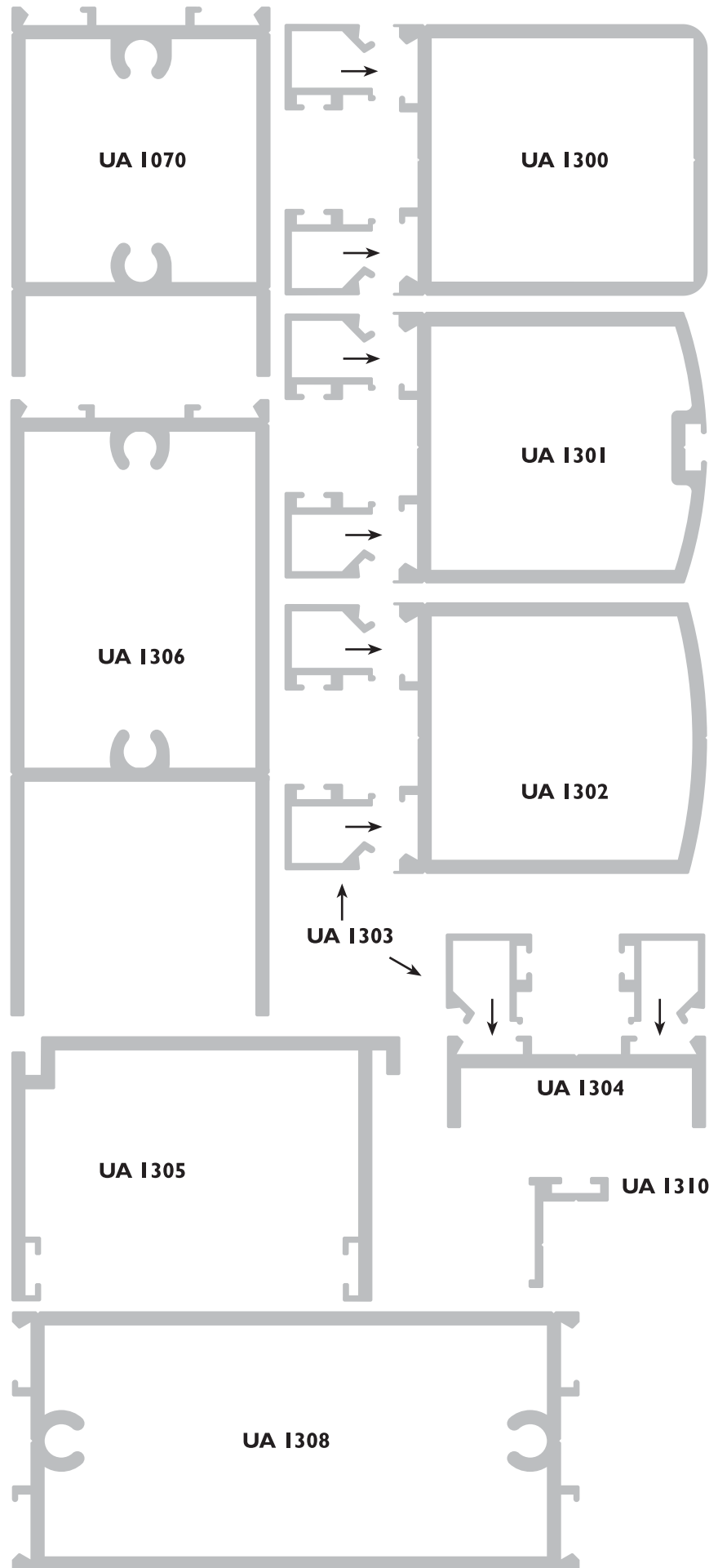
BOTTOM RAIL  
kg/m 1.919 P 383  
OAD 100 x 42  
Takes Door Roller  
TRUKEG940710

**UA 1308**

VISION RAIL  
kg/m 1.849 P 315  
OAD 92 x 42

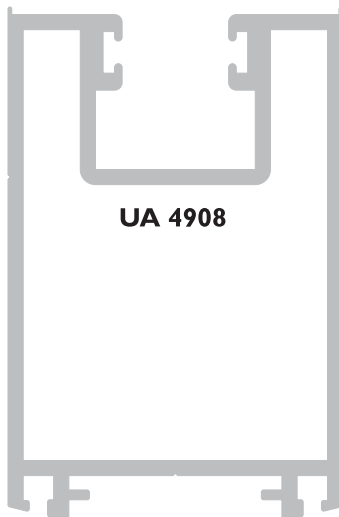
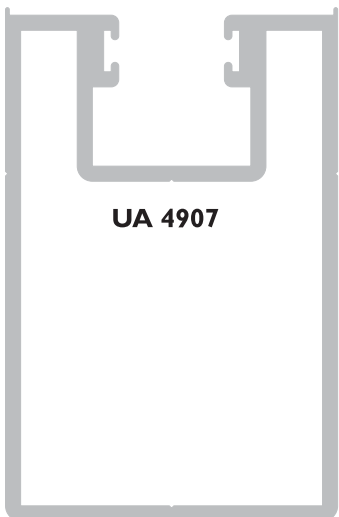
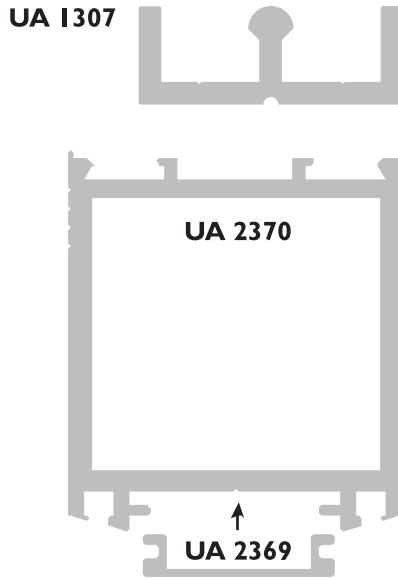
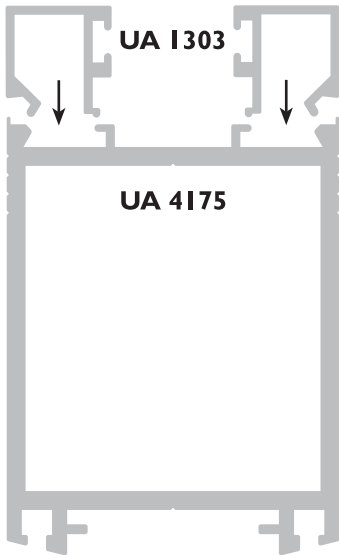
**UA 1310**

WOOLPILE DOOR STOP  
kg/m 0.145 P 75  
OAD 18 x 13



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**UA 1303**  
GLAZING BEAD  
kg/m 0.167 P 98  
OAD 14.8 x 14

**UA 1307**  
BOTTOM TRACK  
kg/m 0.536 P 139  
OAD 35 x 13

**UA 2369**  
STILE GUIDE  
kg/m 0.141 P 79  
OAD 26.5 x 5.5

**UA 2370**  
STILE  
kg/m 1.302 P 261  
OAD 51 x 44

**UA 4175**  
STILE  
kg/m 1.397 P 275  
OAD 58 x 44

**UA 4576**  
STILE  
kg/m 1.896 P 349  
OAD 95 x 44

**UA 4577**  
HINGE STILE  
kg/m 1.678 P 300  
OAD 95 x 44

**UA 4907**  
HINGE STILE  
kg/m 1.494 P 294  
OAD 68 x 44

**UA 4908**  
LOCK STILE  
kg/m 1.578 P 342  
OAD 68 x 44

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**UA 3922**

GLAZING BEAD  
kg/m 0.157 P 93  
OAD 14.8 x 12

**UA 4909**

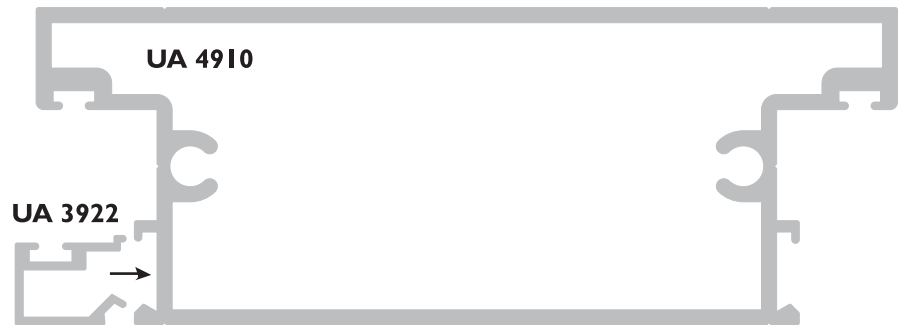
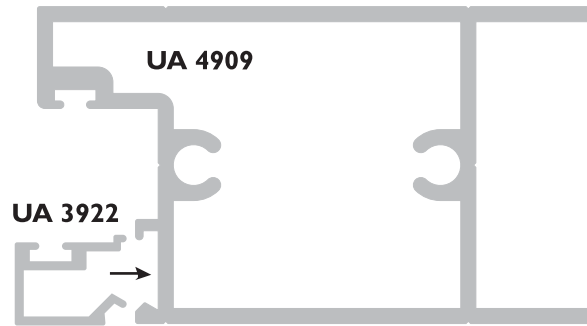
TOP RAIL  
kg/m 1.436 P 288  
OAD 74.1 x 42

**UA 4910**

MID RAIL  
kg/m 1.925 P 360  
OAD 114 x 42

**UA 4911**

BOTTOM RAIL  
kg/m 1.830 P 408  
OAD 112 x 42  
Takes Door Roller  
TRUKEG940710



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**DIE No DESCRIPTION**

**DIE No DESCRIPTION**

**DESIGNER PARTITIONING SYSTEM**

**DESIGNER I000 PARTITIONING SYSTEM**

UA 7250 13mm GIB HEAD STARTER  
 UA 7251 RECESSED STARTER CAP  
 UA 7252 13mm GIB RECESSED STARTER  
 UA 7253 13mm GIB HEAD STARTER  
 UA 7254 RECESSED STARTER CAP  
 UA 7255 13mm GIB RECESSED DOOR STARTER  
 UA 7256 16mm GIB HEAD STARTER  
 UA 7257 RECESSED STARTER CAP  
 UA 7258 STARTER FLUSH CAP  
 UA 7259 40mm DOOR STOP  
 UA 7260 50mm DOOR STOP  
 UA 7261 STARTER FLUSH CAP  
 UA 7262 40mm DOOR STOP  
 UA 7263 50mm DOOR STOP  
 UA 7264 ADJUSTABLE DOOR STOP  
 UA 7265 DOOR STOP CAP  
 UA 7266 DOOR STOP CAP  
 UA 7267 GLAZING BASE  
 UA 7268 GLAZING BEAD  
 UA 7269 GLAZING BEAD  
 UA 7270 GLAZING BASE  
 UA 7271 GLAZING BEAD  
 UA 7272 GLAZING BEAD  
 UA 7273 RECESSED GLAZING MULLION CAP  
 UA 7274 13mm GIB RECESSED STARTER  
 UA 7275 RECESSED GLAZING MULLION CAP  
 UA 7276 DOOR TOP RAIL  
 UA 7277 SLIDING DOOR BOTTOM RAIL  
 UA 7278 GLAZING BEAD  
 UA 7279 GLAZING BEAD  
 UA 7280 DOOR SIDE RAIL  
 UA 7281 SLIDE CAP  
 UA 7282 SLIDE INFILL - WOOLPILE  
 UA 7283 SLIDE INFILL - SIDE WOOLPILE  
 UA 7284 SLIDING DOOR TOP CHANNEL  
 UA 7285 DOOR SIDE CHANNEL  
 UA 7286 BOTTOM DOOR TRACK  
 UA 7287 DOOR CENTRE MULLION  
 UA 7742 104mm RECESSED GLAZING MULLION POST  
 UA 7743 132mm RECESSED GLAZING MULLION POST  
 UA 7785 RECESSED DOOR STARTER CAP  
 UA 7840 OFFSET GLAZING BASE

UA 1034 GLAZING BAR BASE  
 UA 1035 GLAZING BEAD  
 UA 1046 DOOR PILLAR POST  
 UA 1047 PILLAR POST JAMB  
 UA 1181 FLAT BAR ( Skirting )  
 UA 1313 DOUBLE GLAZING CAP  
 UA 1314 DOUBLE GLAZING BASE  
 UA 1315 DOOR JAMB CAP  
 UA 1316 DOOR JAMB  
 UA 1672 26mm HEAD STARTER  
 UA 1788 DOOR JAMB  
 UA 1934 13mm GIB LINING CAP  
 UA 2062 DOOR JAMB  
 UA 2400 GLAZING BAR MULLION  
 UA 3209 GLAZING BEAD  
 UA 4362 13mm GIB HEAD STARTER  
 UA 4363 13mm STARTER CAP  
 UA 4364 13mm STARTER CAP  
 UA 6542 13mm GIB HEAD STARTER

**TOILET PARTITION SYSTEM**

UA 1573 WALL MOUNT  
 UA 5949 18mm CAPPING  
 UA 6453 18mm JOINTER  
 UA 6454 18mm DOOR STOP CAP  
 UA 6455 18mm CORNER  
 UA 7025 11mm INSERT

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**UA 7250**

13mm GIB HEAD STARTER  
For 63.5mm Steel Stud  
kg/m 0.931 P 515  
OAD 104 x 37.3

**UA 7251**

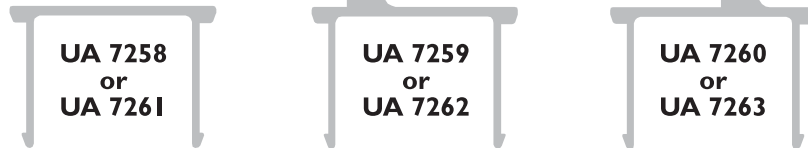
RECESSED STARTER CAP  
kg/m 0.660 P 347  
OAD 104 x 26

**UA 7252**

13mm GIB RECESSED STARTER  
For 63.5mm Steel Stud  
kg/m 1.210 P 617  
OAD 104 x 37.3

**UA 7258**

STARTER FLUSH CAP  
If Powdercoated  
kg/m 0.203 P 126  
OAD 27.3 x 18.8

**UA 7259**

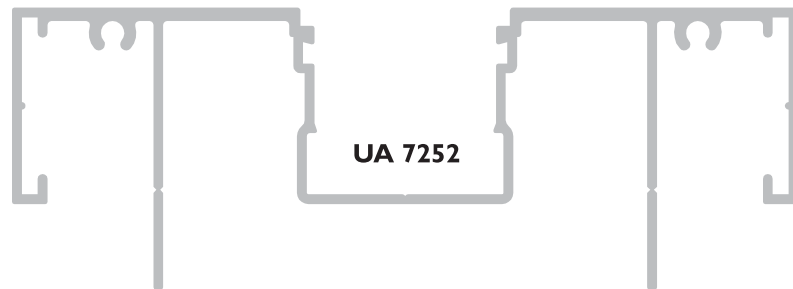
40mm DOOR STOP  
If Powdercoated  
kg/m 0.303 P 156  
OAD 29.14 x 27.3

**UA 7260**

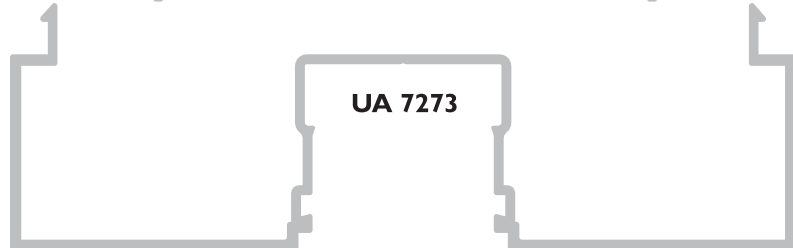
50mm DOOR STOP  
If Powdercoated  
kg/m 0.303 P 156  
OAD 29.14 x 27.3

**UA 7261**

STARTER FLUSH CAP  
If Anodised  
kg/m 0.210 P 127  
OAD 27.6 x 18.75

**UA 7262**

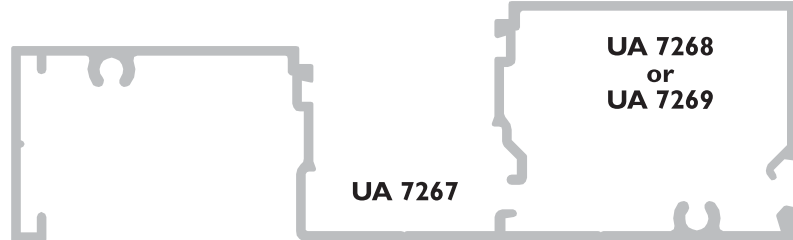
40mm DOOR STOP  
If Anodised  
kg/m 0.309 P 156  
OAD 29.09 x 27.6

**UA 7263**

50mm DOOR STOP  
If Anodised  
kg/m 0.309 P 156  
OAD 29.09 x 27.6

**UA 7267**

GLAZING BASE  
kg/m 0.730 P 373  
OAD 104 x 26

**UA 7268**

GLAZING BEAD  
If Powdercoated  
kg/m 0.324 P 184  
OAD 40 x 24.35

**UA 7269**

GLAZING BEAD  
If Anodised  
kg/m 0.327 P 186  
OAD 40 x 24.35

**UA 7273**

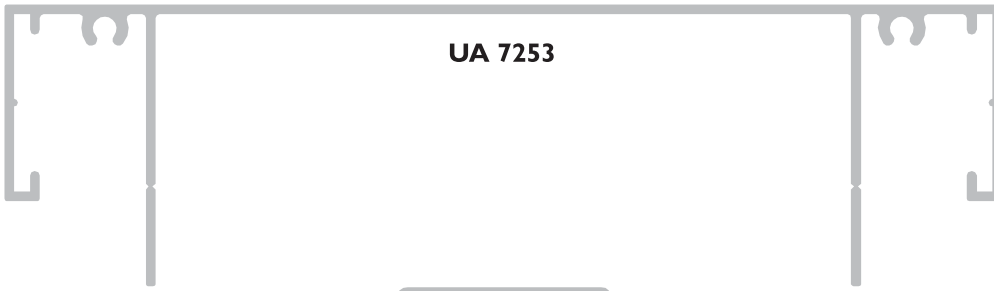
RECESSED GLAZING MULLION CAP  
kg/m 0.898 P 464  
OAD 104 x 32.8



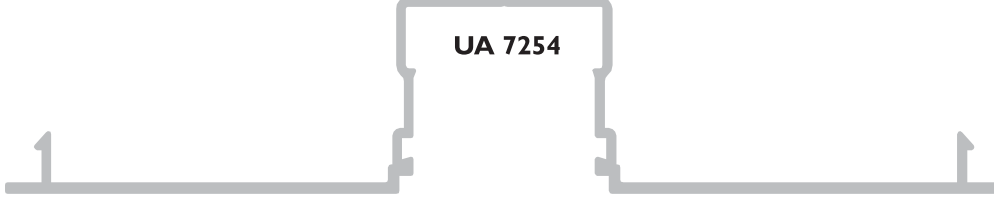
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED, DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
OAD = OVERALL DIMENSIONS  
P = EXT PERIPHERY

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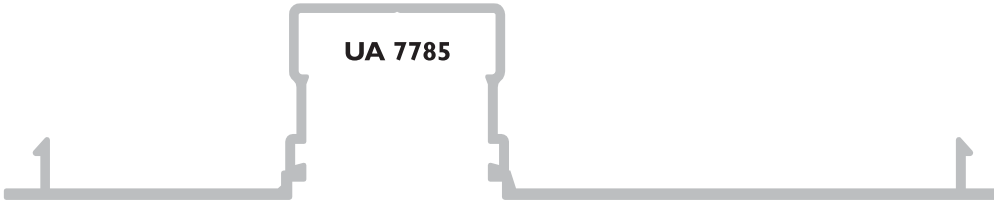




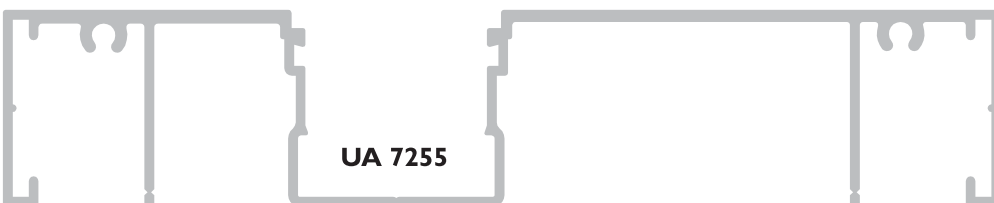
**UA 7253**  
 13mm GIB HEAD STARTER  
 For 92mm Steel Stud  
 kg/m 1.030 P 571  
 OAD 132 x 37.3



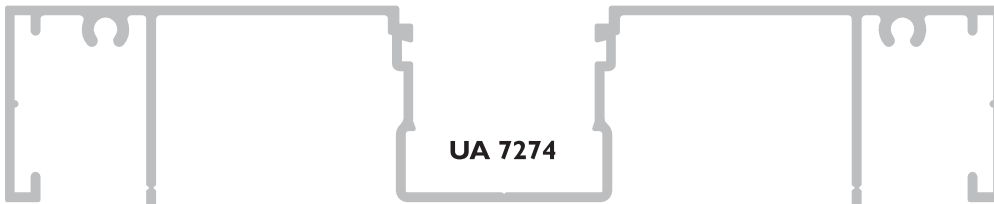
**UA 7254**  
 RECESSED STARTER CAP  
 kg/m 0.774 P 403  
 OAD 132 x 26



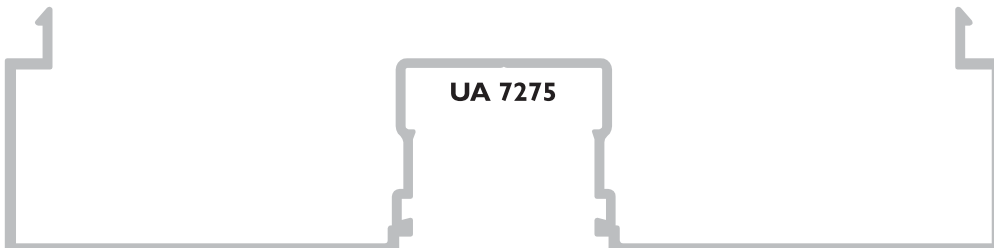
**UA 7255**  
 13mm GIB RECESSED DOOR STARTER  
 For 92mm Steel Stud  
 kg/m 1.314 P 675  
 OAD 132 x 37.3



**UA 7274**  
 13mm GIB RECESSED STARTER  
 For 92mm Steel Stud  
 kg/m 1.234 P 679  
 OAD 132 x 37.3



**UA 7275**  
 RECESSED GLAZING MULLION CAP  
 kg/m 1.011 P 520  
 OAD 132 x 32.8



**UA 7785**  
 RECESSED DOOR STARTER CAP  
 kg/m 0.774 P 403  
 OAD 132 x 26

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**UA 7256**

16mm GIB HEAD STARTER  
For 92mm Steel Stud  
kg/m 1.048 P 581  
OAD 138 x 37.3

**UA 7257**

RECESSED STARTER CAP  
kg/m 0.798 P 415  
OAD 138 x 26

**UA 7264**

ADJUSTABLE DOOR STOP  
kg/m 0.561 P 132  
OAD 35 x 15

**UA 7265**

DOOR STOP CAP  
If Powdercoated  
kg/m 0.145 P 98  
OAD 28 x 11.1

**UA 7266**

DOOR STOP CAP  
If Anodised  
kg/m 0.147 P 98  
OAD 28.3 x 11.06

**UA 7268**

GLAZING BEAD  
If Powdercoated  
kg/m 0.324 P 184  
OAD 40 x 24.35

**UA 7269**

GLAZING BEAD  
If Anodised  
kg/m 0.327 P 186  
OAD 40 x 24.35

**UA 7270**

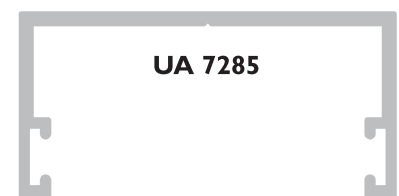
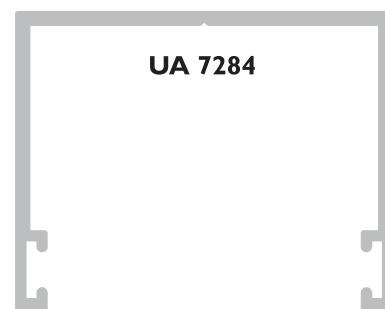
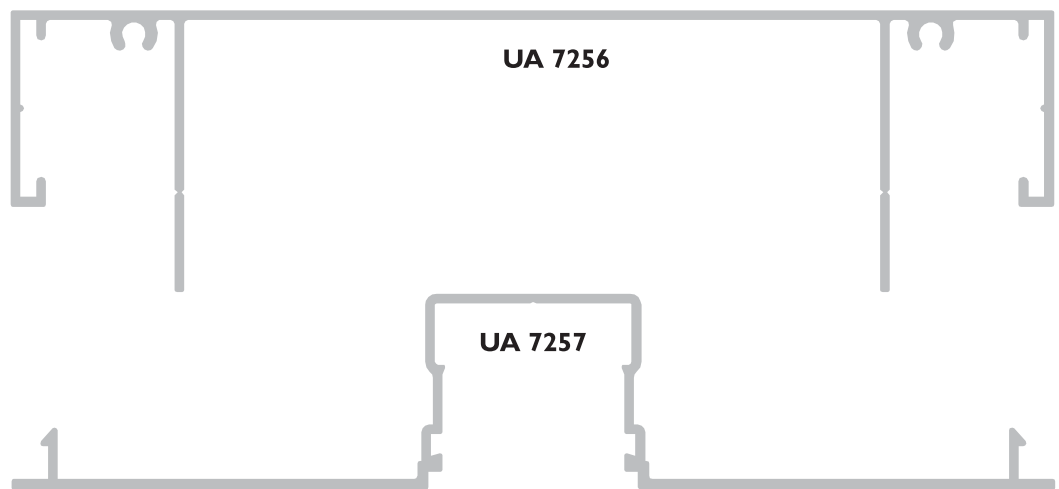
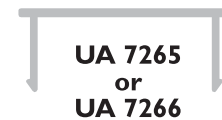
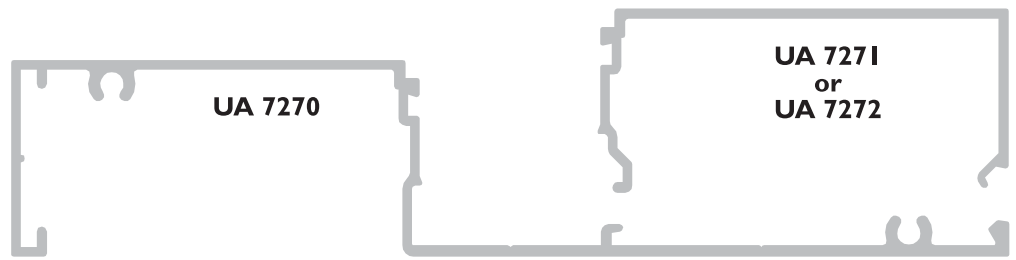
GLAZING BASE  
kg/m 0.836 P 429  
OAD 132 x 26

**UA 7271**

GLAZING BEAD  
If Powdercoated  
kg/m 0.373 P 212  
OAD 54 x 24.35

**UA 7272**

GLAZING BEAD  
If Anodised  
kg/m 0.376 P 214  
OAD 54 x 24.35



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**UA 7284**

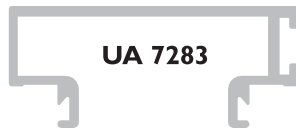
SLIDING DOOR TOP GUIDE  
kg/m 0.723 P 285  
OAD 50 x 40

**UA 7285**

DOOR SIDE CHANNEL  
kg/m 0.561 P 225  
OAD 50 x 25

**UA 7840**

OFFSET GLAZING BASE  
kg/m 0.858 P 428  
OAD 132 x 26



UA 7283



UA 7282



UA 7281



UA 7276



UA 7280

UA 7278  
or  
UA 7279



UA 7277



UA 7287



UA 7286

**UA 7276**

DOOR TOP RAIL  
kg/m 1.133 P 294  
OAD 75 x 36.5

**UA 7277**

SLIDING DOOR BOTTOM RAIL  
kg/m 1.571 P 437  
OAD 100 x 36.5  
Takes Adj Door Roller  
Code: H915XSAS

**UA 7278**

GLAZING BEAD  
If Powdercoated  
kg/m 0.126 P 91  
OAD 14.95 x 10.45

**UA 7279**

GLAZING BEAD  
If Anodised  
kg/m 0.127 P 92  
OAD 14.95 x 10.45

**UA 7280**

DOOR SIDE RAIL  
kg/m 1.656 P 385  
OAD 100 x 38.3

**UA 7281**

DOOR CAP  
kg/m 0.138 P 78  
OAD 25.5 x 5.5

**UA 7282**

DOOR WOOLPILE CAP  
kg/m 0.151 P 94  
OAD 25.5 x 5.5

**UA 7283**

DOOR SIDE WOOLPILE CAP  
kg/m 0.337 P 182  
OAD 38.3 x 16.1

**UA 7286**

BOTTOM DOOR TRACK  
kg/m 0.488 P 123  
OAD 30.5 x 12

**UA 7287**

DOOR CENTRE MULLION  
kg/m 1.407 P 379  
OAD 100 x 36.5

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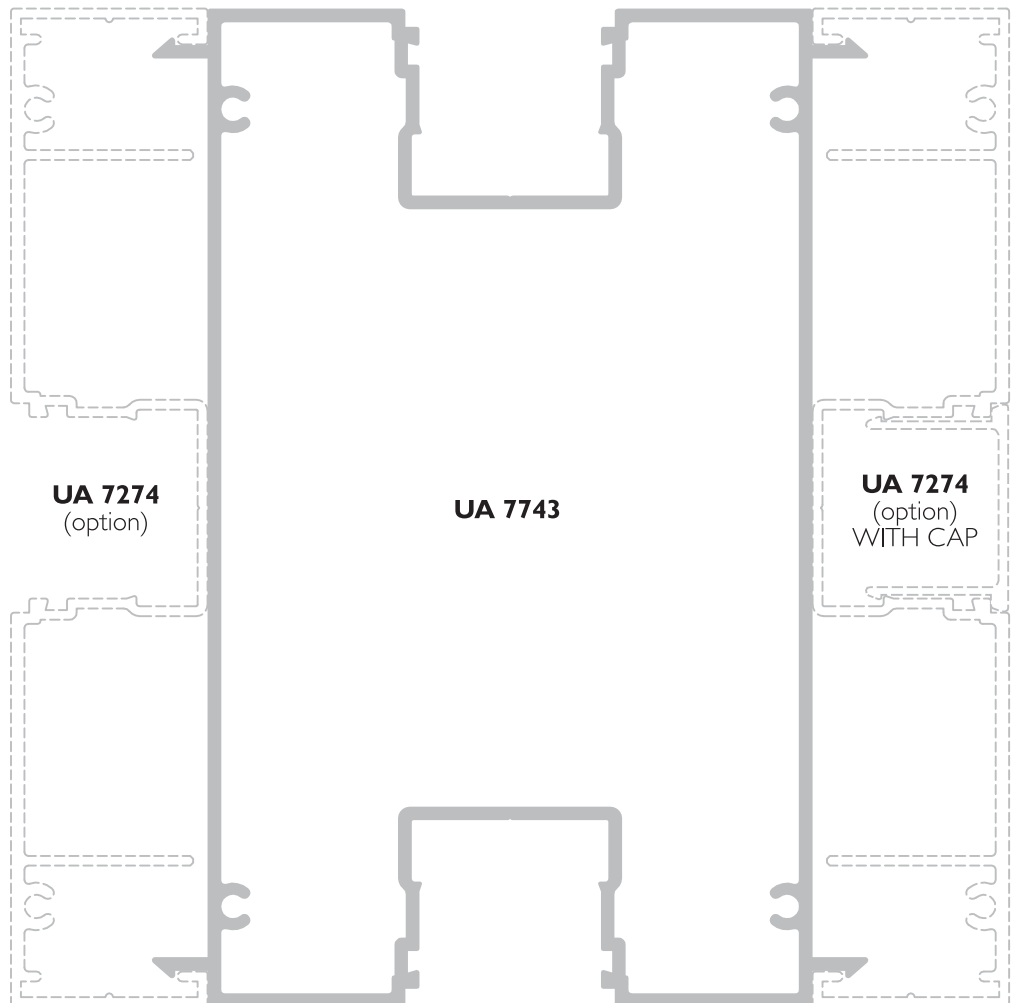
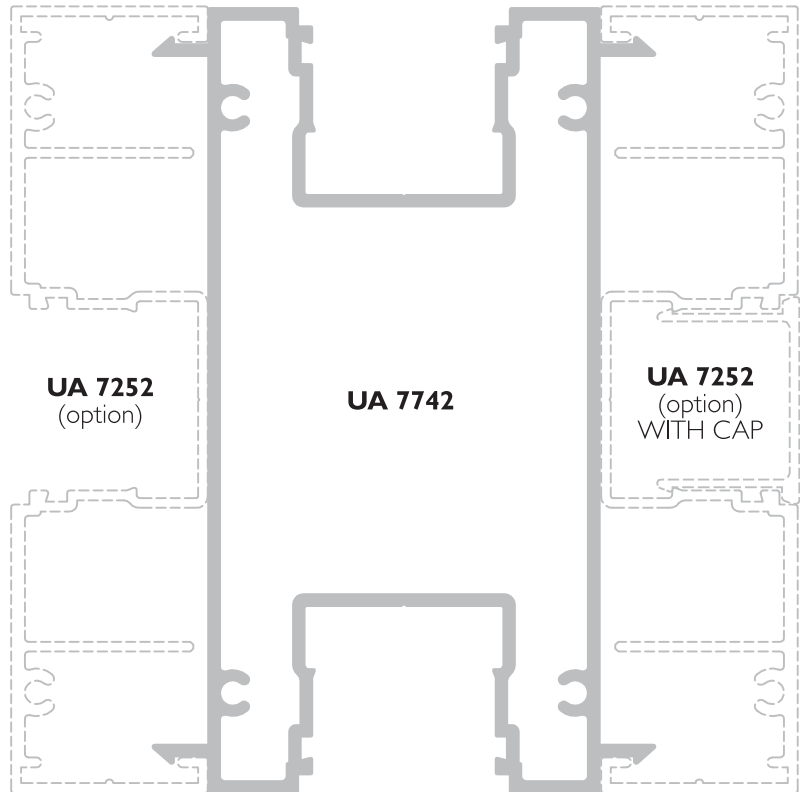
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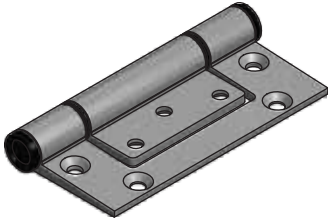
**UA 7742**

104mm RECESSED  
GLAZING MULLION POST  
kg/m 2.310 P 490  
OAD 104 x 66.73

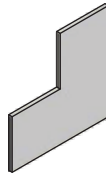
**UA 7743**

132mm RECESSED  
GLAZING MULLION POST  
kg/m 2.854 P 602  
OAD 132 x 94.73

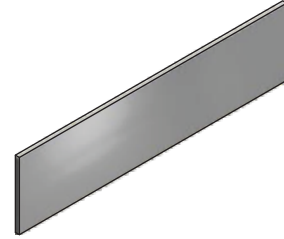




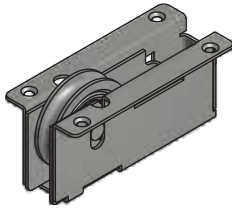
**TAPERED FLUSH HINGE**  
Anodised Silver  
Code: HFSAT



**PARTITION GUSSET**  
Mitre Corner, Vertical  
Code: PARTGUSS22.5  
PKT 50



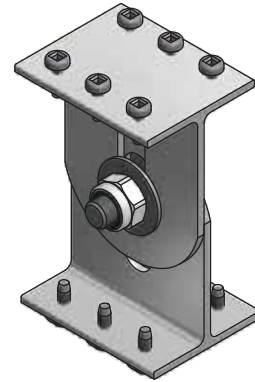
**SPLICE PLATE**  
Butt Joint  
Code: PARTSPLICE23  
PKT 50



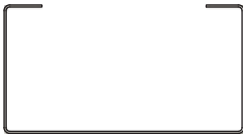
**ADJ BOTTOM DOOR ROLLER**  
Code: H915XSAS



**STAKING CORNER**  
Mitre Corner, Horizontal  
Code: PARTSTAK23  
PKT 50



**HEADSTARTER RESTRAINT BRACKET**  
Code: PARTSTARTERBRKT  
BOX 20



**STEEL STUD**  
STUD 63.5 x .55 x 2400mm  
STUD 63.5 x .55 x 2700mm  
STUD 63.5 x .55 x 3000mm  
STUD 63.5 x .55 x 3300mm  
STUD 63.5 x .75 x 3600mm



**STEEL TRACK**  
STUD 63.5 x .55 x 3000mm



**STEEL STUD**  
STUD 92 x .55 x 3000mm  
STUD 92 x .55 x 3600mm  
STUD 92 x .55 x 4200mm



**STEEL TRACK**  
STUD 92 x 0.55 x 3000mm



**WOOLPILE**  
Code: PART4.8-450  
Black / Grey



**WOOLPILE**  
Code: PART6.9-450  
Black / Grey



**WOOLPILE**  
Code: PART6.9-700  
Black / Grey



**WOOLPILE**  
Code: PART6.9-900  
Black / Grey



**BUTTERFLY WEDGE**  
Code: PART466  
Black

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**UA 1181**

FLAT BAR ( Skirting )  
kg/m 0.305 P 59  
OAD 25 x 4.5

**UA 1315**

DOOR JAMB CAP  
kg/m 0.100 P 73  
OAD 13.8 x 11.8

**UA 1316**

DOOR JAMB - 40mm Door  
kg/m 0.904 P 317  
OAD 47 x 39

**UA 1672**

26mm HEAD STARTER  
For 63.5mm Steel Stud  
kg/m 1.131 P 538  
OAD 129 x 34.6

**UA 1788**

DOOR JAMB - 40mm Door  
kg/m 0.671 P 234  
OAD 48 x 27.8

**UA 1934**

13mm GIB LINING CAP  
kg/m 0.353 P 176  
OAD 35.8 X 20

**UA 2062**

DOOR JAMB - 45mm Door  
kg/m 0.690 P 243  
OAD 53 x 27

**UA 4362**

13mm GIB HEAD STARTER  
For 63.5mm Steel Stud  
kg/m 0.863 P 492  
OAD 104 x 37.3

**UA 4363**

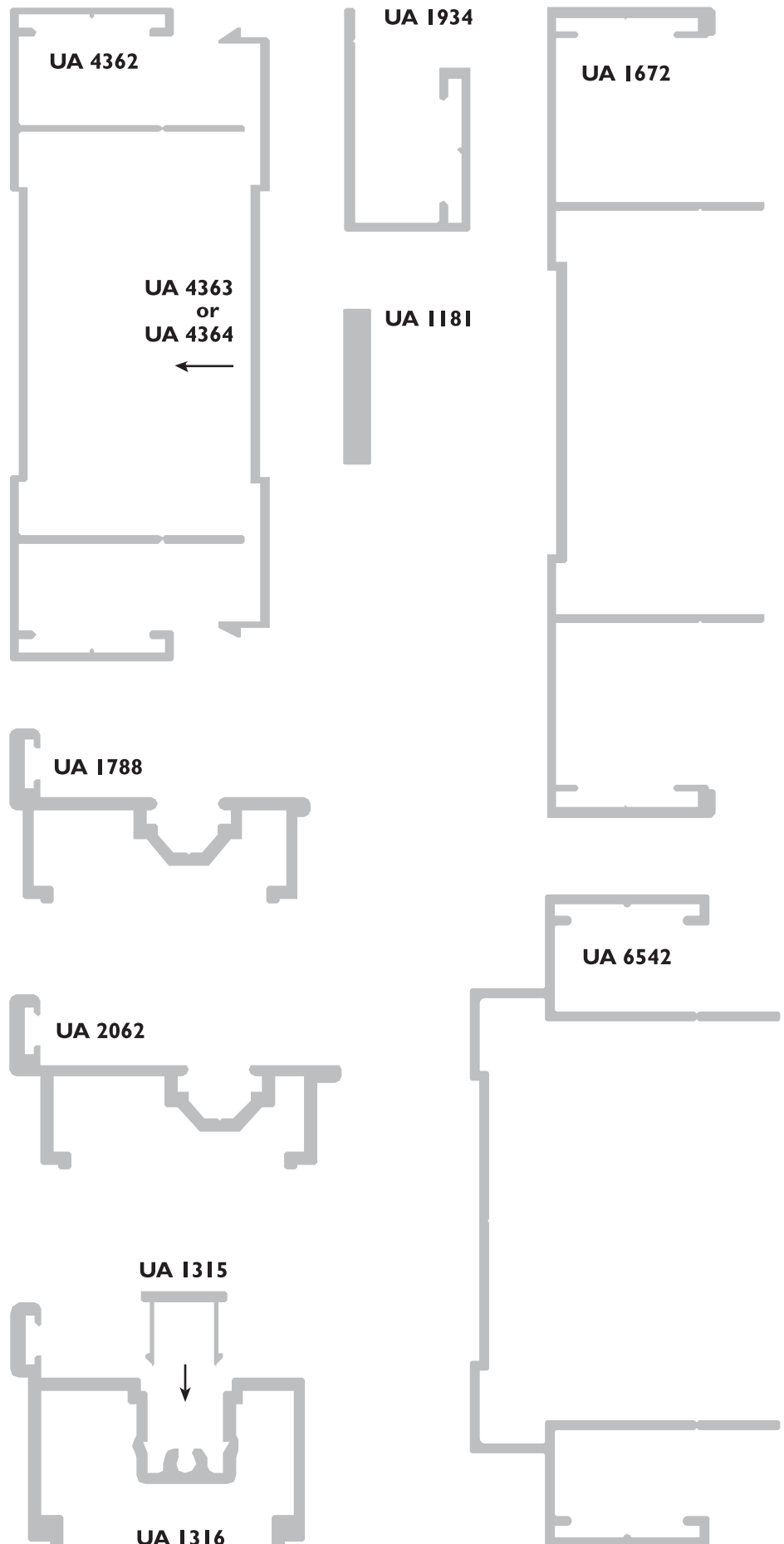
13mm STARTER CAP  
If Powdercoated  
kg/m 0.389 P 225  
OAD 96.8 x 8.14

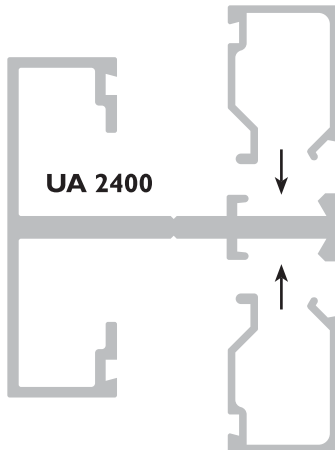
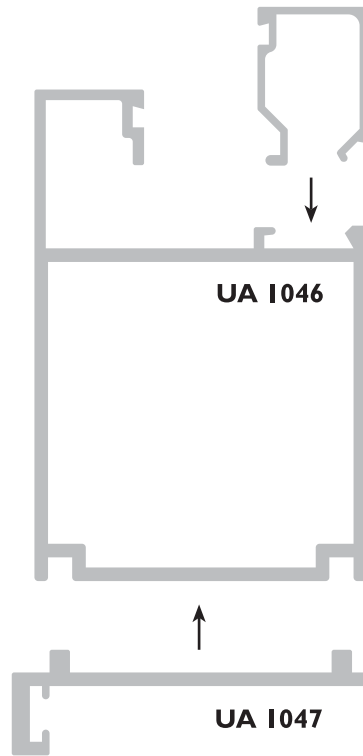
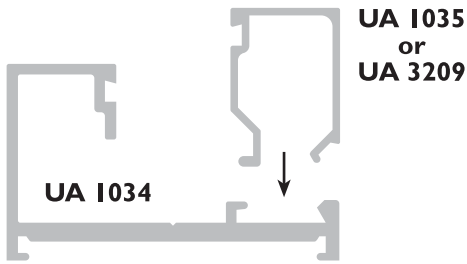
**UA 4364**

13mm STARTER CAP  
If Anodised  
kg/m 0.391 P 227  
OAD 97.6 x 8.14

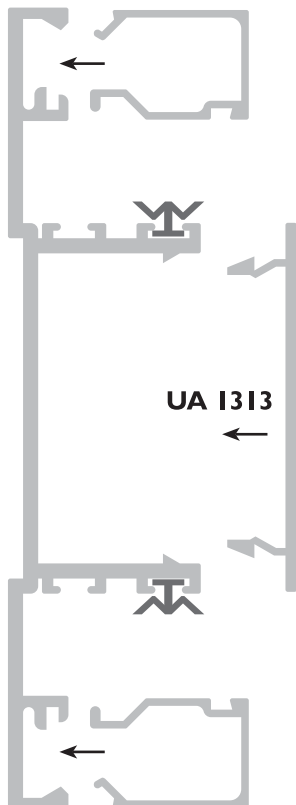
**UA 6542**

13mm GIB HEAD STARTER  
For 63.5mm Steel Stud  
Negative Detail  
kg/m 0.973 P 553  
OAD 104 x 49.3





**UA 1314**



**UA 1034**  
GLAZING BAR BASE  
kg/m 0.533 P 210  
OAD 44 x 26

**UA 1035**  
GLAZING BEAD  
If Powdercoated  
kg/m 0.175 P 120  
OAD 21 x 14.5

**UA 1046**  
DOOR PILLAR POST  
kg/m 1.072 P 288  
OAD 65 x 44

**UA 1047**  
PILLAR POST JAMB - 40mm Door  
kg/m 0.354 P 138  
OAD 47 x 14

**UA 1313**  
DOUBLE GLAZING CAP  
kg/m 0.253 P 136  
OAD 48.8 x 9.2

**UA 1314**  
DOUBLE GLAZING BASE  
kg/m 1.092 P 435  
OAD 106 x 25.5 Infill 466

**UA 2400**  
GLAZING BAR MULLION  
kg/m 0.786 P 295  
OAD 45 x 44

**UA 3209**  
GLAZING BEAD  
If Anodised  
kg/m 0.178 P 121  
OAD 21 x 14.5

**INFILLS SOLD SEPARATELY**

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**UA 1573**  
WALL MOUNT  
kg/m 0.273 P 148  
OAD 25 x 25

**UA 1573**



**UA 5949**



**UA 5949**  
18mm CAPPING  
kg/m 0.235 P 119  
OAD 21.6 X 20

**UA 6453**  
18mm JOINTER  
kg/m 0.389 P 194  
OAD 38.5 x 21.6

**UA 6453**



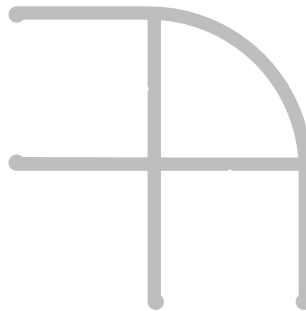
**UA 7025**



**UA 6454**  
18mm DOOR STOP CAP  
kg/m 0.304 P 153  
OAD 35 x 23.1

**UA 6455**  
18mm CORNER  
kg/m 0.591 P 225  
OAD 40.1 x 40.1

**UA 6455**



**UA 6454**



**UA 7025**  
11mm INSERT  
kg/m 0.222 P 107  
OAD 21.6 x 13.6



**ALUMINIUM FLAT BUTT HINGE**  
75mm SATIN FINISH  
Code: HA3S



**UC 1914 PARTITION FOOT**  
PLATFORM HEIGHT: 150mm



**SURFACE MOUNT INDICATOR BOLT SET** Code: 11461



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DIE No	DESCRIPTION	DIE No	DESCRIPTION
UA 1006	LADDER RUNG	UA 3465	TOE BOARD
UA 1292	FLUSH INFILL	UA 3703	TRACK
UA 1340	LT7 DOOR CAP	UA 3753	F-SECTION
UA 1341	SLIDING DOOR TRACK	UA 3769	SLIDING DOOR TEE
UA 1342	3mm SPLIT TEE	AUS 4048	FRAME
UA 1343	SLIDING DOOR TEE	UA 4130	GLASS CHANNEL
UA 1345	DOOR TEE	UA 4353	SHELF BRACKET
UA 1346	TICKET HOLDER	UA 4382	CONCRETE SCREED
UA 1347	TICKET HOLDER	UA 4473	BENCH SEAT TOP
UA 1348	TICKET HOLDER	UA 4587	SKIRTING
UA 1350	CURTAIN TRACK	UA 4588	SKIRTING
UA 1351	CURTAIN TRACK	UA 4592	PLANK
UA 1352	GLASS SILL	UA 4650	STAIR STRINGER
UA 1353	GLASS TRACK Top	UA 4651	STAIR TREAD
UA 1354	GLASS TRACK Base	UA 4779	HEX NUT
UA 1356	GLASS JOINTER	UA 4980	P-SECTION
UA 1359	PICTURE FRAME	AUS 5324	19mm CHANNEL
UA 1363	CUPBOARD PULL	UA 5402	DROP SIDE HINGE
UA 1369	HINGE	AUS 5570	RIBBED TUBE
UA 1370	HINGE	UA 5641	PLANK
UA 1390	STAKE ANGLE	AUS 5652	13mm CHANNEL
UA 1391	SHOWER FRAME	UA 5973	ROLLER BLIND BAR
UA 1392	SHOWER FRAME	UA 6011	GLASS BLOCK FRAME
UA 1492	SCALLOP MOULD	UA 6012	GLASS BLOCK LAYER
UA 1643	DRAWER PULL	AUS 6272	TOP TRACK
UA 1663	F - SECTION	UA 6341	OFFSET TEE
UA 1678	SHELF BRACKET	AUS 6357	RACK FRAME
UA 1679	SHELF BRACKET	AUS 6427	106° HONEYCOMB JOINER
UA 1941	SKIRTING	AUS 6428	90° HONEYCOMB JOINER
UA 1950	DRAWER PULL	AUS 6429	164° HONEYCOMB JOINER
UA 1951	COLONIAL BEAD	UA 6430	65 x 65mm 2-PIECE SQUARE
UA 1952	COLONIAL BEAD	UA 6861	MIRROR MOUNT BASE
UA 2000	PICTURE FRAME	UA 6862	MIRROR MOUNT TOP
UA 2039	PICTURE FRAME	UA 7070	BULB TEE
UA 2086	FLASHING	UA 7071	BULB TEE
UA 2154	DOOR TRACK	UA 7237	RULER
UA 2163	WORKSPACE POST	UA 7713	DIN RAIL
UA 2221	DOOR TRACK	AUS 8222	SILL TRACK
UA 2229	DOOR TRACK	AUS 8288	STRUT CHANNEL
UA 2251	51mm FLUTED COLUMN	AUS 8446	LETTERBOX SECTION
UA 2462	TICKET HOLDER	AUS 8582	SLAT SECTION
UA 2482	TICKET HOLDER	AUS 10049	22mm GRATING END CAP
UA 2483	TICKET HOLDER	AUS 10050	22mm GRATING JOINER
UA 2516	CUSTOMWOOD INSERT	AUS 10051	32mm GRATING JOINER
UA 2589	SHELF BRACKET Melteca	AUS 10052	F-BAR
UA 2667	LADDER RUNG	AUS 10079	POST - 1
UA 2759	LIPPED CHANNEL	AUS 10080	POST 2
UA 2852	SLATWALL INSERT	AUS 10081	POST - 1 RADIUS
UA 2899	PLANK - DECK EXTENSION	AUS 10082	POST - 2 RADIUS
UA 2906	DIN RAIL	AUS 10134	STRUT CHANNEL
UA 2996	LADDER RUNG	AUS 10136	H-SECTION
UA 3006	AWNING FRAME	AUS 10180	CORNER POST
UA 3016	4mm SPLIT TEE	AUS 10247	SAIL TRACK
UA 3151	ANGLE	AUS 10274	CEILING T-BAR
UA 3219	CAPPING	AUS 10309	SQR POST
UA 3266	HANGING FILE RAIL	AUS 10413	TOP TRACK
UA 3267	ROLLER BLIND BAR	AUS 10553	100mm HALF ROUND
UA 3268	ROLLER BLIND BAR		

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**UA 1341**

SLIDING DOOR TRACK  
kg/m 0.083 P 37  
OAD 12 x 7

**UA 1341****UA 1343****UA 3769****UA 1342**

3mm SPLIT TEE  
kg/m 1.035 P 226  
OAD 57 x 32

**UA 2154****UA 2229****UA 1345****UA 1343**

SLIDING DOOR TEE  
k/gm 0.173 P 66  
OAD 20.3 x 13.5

**UA 1345**

DOOR TEE  
kg/m 0.146 P 65  
OAD 15.8 x 19

**UA 2154**

DOOR TRACK  
kg/m 0.143 P 48  
OAD 19 x 6

**UA 2229**

DOOR TRACK  
kg/m 0.241 P 95  
OAD 25 x 22.8

**UA 3016**

4mm SPLIT TEE  
k/gm 1.039 P 226  
OAD 57 x 32

**UA 3769**

SLIDING DOOR TEE  
k/gm 0.364 P 80  
OAD 25.4 x 15.9

**UA 6341**

OFFSET TEE  
k/gm 2.429 P 311  
OAD 100 x 56

**UA 7070**

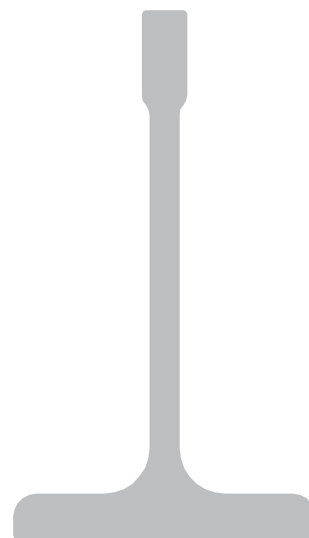
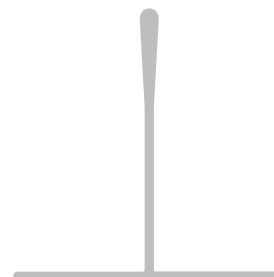
BULB TEE  
k/gm 1.447 P 214  
OAD 70 x 40

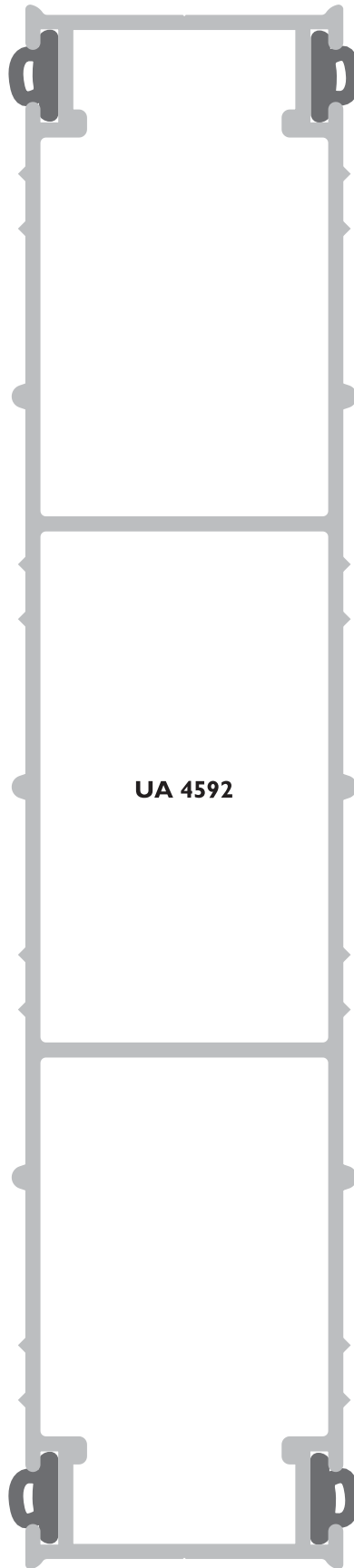
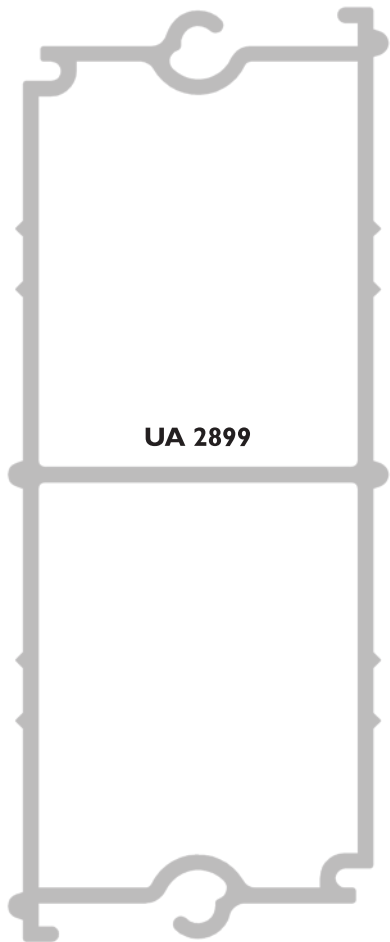
**UA 7071**

BULB TEE  
k/gm 1.086 P 185  
OAD 60 x 35

**AUS 10274**

CEILING T-BAR  
k/gm 0.252 P 144  
OAD 36 x 36

**UA 1342****UA 3016****UA 7070****AUS 10274****UA 7071****UA 6341**



**UA 2899**  
 PLANK - DECK EXTENSION  
 kg/m 2.039 P 419  
 OAD 122.8 x 50

**UA 4592**  
 PLANK  
 kg/m 3.447 P 657  
 OAD 228 x 50 Infill 113

**UA 5402**  
 DROP SIDE HINGE  
 kg/m 1.828 P 221  
 OAD 90 x 28

**AUS 10553**  
 100mm HALF ROUND  
 k/gm 1.234 P 311  
 OAD 100 x 50



**INFILLS SOLD SEPARATELY**

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED, DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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**P** = EXT PERIPHERY  
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**UA 1350**

CURTAIN TRACK Top Fix  
kg/m 0.082 P 54  
OAD 14.5 x 5.8

**UA 1351**

CURTAIN TRACK Side Fix  
kg/m 0.125 P 81  
OAD 17 x 12

**UA 1359**

PICTURE FRAME  
kg/m 0.281 P 143  
OAD 22.02 x 22.95

**UA 2000**

PICTURE FRAME  
kg/m 0.144 P 86  
OAD 16.3 x 13.1

**UA 2039**

PICTURE FRAME  
kg/m 0.164 P 103  
OAD 20.5 x 12.5

**UA 2221**

DOOR TRACK  
kg/m 0.378 P 178  
OAD 30 x 25

**UA 2759**

LIPPED CHANNEL  
kg/m 0.345 P 106  
OAD 25 x 12.5

**UA 2906**

DIN RAIL  
kg/m 0.353 P 141  
OAD 35.5 x 13

**UA 3006**

AWNING FRAME  
kg/m 0.381 P 127  
OAD 23 x 23

**UA 3703**

TRACK  
kg/m 0.116 P 81  
OAD 19.1 x 9.3

**UA 4130**

GLASS CHANNEL  
kg/m 0.165 P 105  
OAD 18 x 18



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**UA 2000**

**PICTURE FRAME  
ASSEMBLY CORNER SETS**

Available  
Code: PICCORNERSET

**UA 2039****UA 1359****UA 3006****UA 1350****UA 1351**

**PLASTIC CURTAIN GLIDES**

Available for: UA 1350, UA 1351  
Code: CURGLIDESW  
CURENSDW

**UA 6861****UA 6862**

**MIRROR MOUNT  
PLASTIC END CAPS**

Available  
Code: W104

**UA 2906****UA 7713****UA 2759****UA 4130****UA 3703****UA 6861**

MIRROR MOUNT BASE  
Takes stake 1379 (red)  
kg/m 0.218 P 116  
OAD 25 x 10,5

**UA 6862**

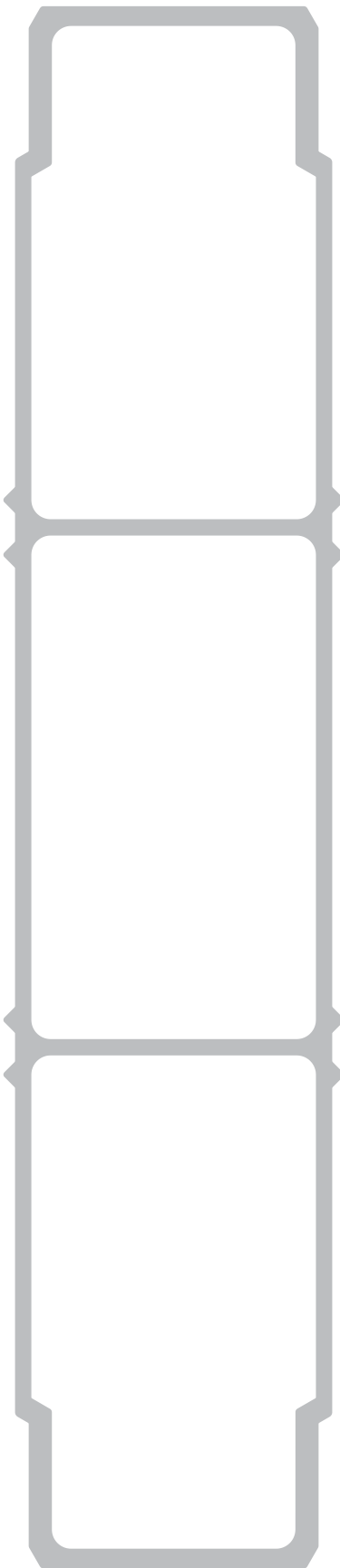
MIRROR MOUNT TOP  
kg/m 0.166 P 83  
OAD 27.03 x 12.3

**UA 7713**

DIN RAIL  
kg/m 0.381 P 141  
OAD 35.2 x 13.1

**UA 2221**

**AUS 564I**



**UA 4050**



**UA I356**



**UA I353**



**UA I354**



**UA I352**



**UA I363**



**UA I643**



**UA I950**



**UA I492**



**UA I352**

6mm GLASS SILL  
kg/m 0.182 P 99  
OAD 32 x 9.5

**UA I353**

6mm GLASS TRACK Top  
kg/m 0.232 P 131  
OAD 23 x 14

**UA I354**

6mm GLASS TRACK Base  
kg/m 0.179 P 99  
OAD 23 x 8

**UA I356**

6mm GLASS JOINTER  
kg/m 0.159 P 82  
OAD 16 x 10.5

**UA I363**

16mm CUPBOARD PULL  
kg/m 0.314 P 130  
OAD 34 x 18

**UA I492**

SCALLOP MOULD  
kg/m 0.729 P 131  
OAD 63.5 x 6.35

**UA I643**

16mm DRAWER PULL  
kg/m 0.546 P 164  
OAD 44 x 17.4

**UA I950**

19mm DRAWER PULL  
kg/m 0.633 P 166  
OAD 44 x 19.5

**UA 4050**

FISH BOARD  
kg/m 2.687 P 600  
OAD 203.2 x 22.3

**AUS 564I**

PLANK  
kg/m 3.808 P 550  
OAD 228 x 49.4

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**UA 1292**

FLUSH INFILL  
kg/m 0.454 P 169  
OAD 60.2 x 6.7

**UA 1340**

LT7 DOOR CAP  
kg/m 0.508 P 254  
OAD 65.5 x 43

**UA 2163**

WORKSPACE POST  
kg/m 2.309 P 463  
OAD 51 x 45

**UA 4980**

P - SECTION  
kg/m 0.793 P 228  
OAD 76 x 38

**UA 6011**

GLASS BLOCK FRAME  
kg/m 0.917 P 428  
OAD 80 x 40

**UA 6012**

GLASS BLOCK LAYER  
kg/m 0.459 P 192  
OAD 68.15 x 6.6

**AUS 6272**

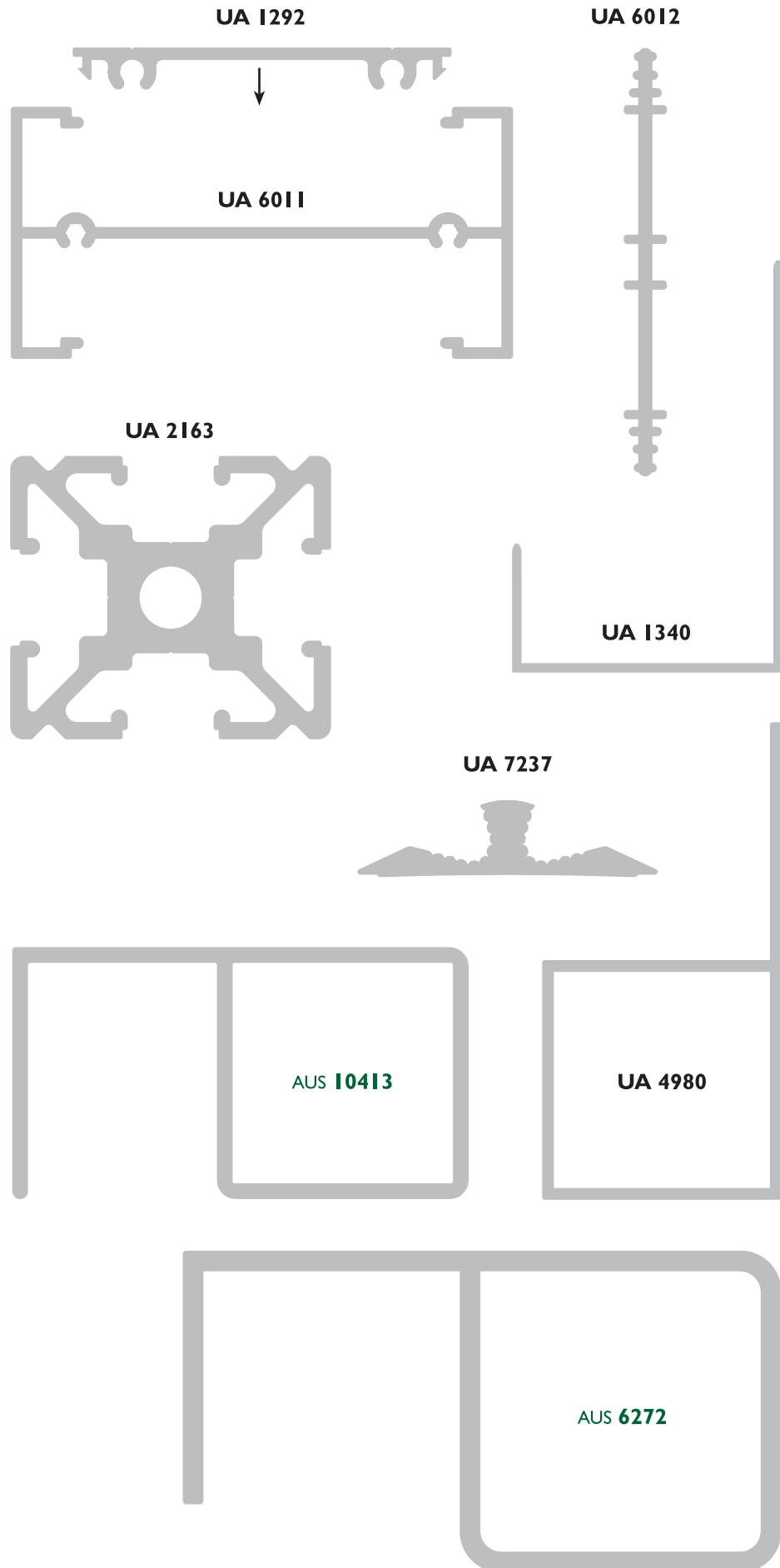
TOP TRACK  
kg/m 2.156 P 357  
OAD 94.8 x 50.8

**UA 7237**

RULER  
kg/m 0.507 P 128  
OAD 47.5 x 12.5

**AUS 10413**

TOP TRACK  
kg/m 1.468 P 295  
OAD 72.5 x 40



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UA 1346



UA 1347



UA 1348



UA 2483



UA 2482



UA 1006

LADDER RUNG  
kg/m 0.368 P 96  
OAD 28 x 28

UA 1346

28mm TICKET HOLDER  
kg/m 0.172 P 84  
OAD 32 x 9

UA 1347

19mm TICKET HOLDER  
kg/m 0.069 P 53  
OAD 21 x 3

UA 1348

29mm TICKET HOLDER  
kg/m 0.113 P 76  
OAD 32 x 3

UA 1369

HINGE  
kg/m 0.590 P 115  
OAD 49.2 x 14.5

UA 1370

HINGE  
kg/m 0.607 P 118  
OAD 49.2 x 14.5

UA 1390

STAKE ANGLE fits 1391  
kg/m 1.317 P 223  
OAD 35 x 35

UA 1391

SHOWERSCREEN FRAME  
kg/m 0.341 P 107  
OAD 30.5 x 10.5

UA 1392

SHOWERSCREEN FRAME  
kg/m 0.430 P 136  
OAD 25.5 x 25.5

UA 2251

51mm FLUTED COLUMN  
kg/m 0.622 P 159  
OAD 51 x 51

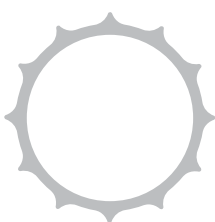
UA 2462

50mm TICKET HOLDER  
kg/m 0.762 P 265  
OAD 52 x 48

UA 2482

35mm TICKET HOLDER  
kg/m 0.154 P 97  
OAD 38.2 x 4.7

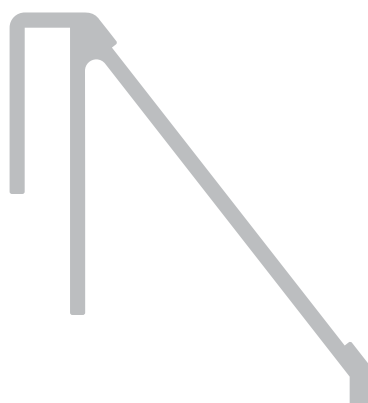
UA 1006



UA 2667

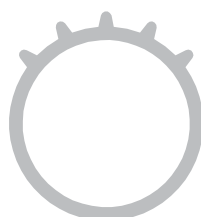


UA 2462



UA 2251

UA 2996



UA 1369



UA 1370



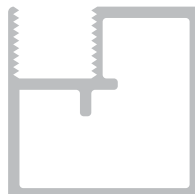
UA 1390



UA 1391



UA 1392



UA 2996

LADDER RUNG  
kg/m 0.406 P 96  
OAD 27.7 x 25.7

UA 2667

LADDER RUNG  
kg/m 0.356 P 100  
OAD 28 x 28

UA 2483

22mm TICKET HOLDER  
kg/m 0.110 P 71  
OAD 25 x 4.7

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**UA 1941**

SKIRTING

kg/m 0.440 P 219

OAD 100 x 4.2 Infill 11

**UA 3151**

ANGLE

kg/m 2.307 P 437

OAD 185 x 40

**UA 3267**

BLINDS ROLLER

kg/m 0.564 P 156

OAD 40.7 x 40.35

**UA 3268**

BLINDS ROLLER

kg/m 0.444 P 119

OAD 33 x 32.8

**UA 3465**

TOE BOARD

kg/m 1.821 P 351

OAD 150 x 13

**UA 4587**

SKIRTING

kg/m 0.414 P 194

OAD 80 x 5.2 Infill 12

**UA 4588**

SKIRTING

kg/m 0.630 P 294

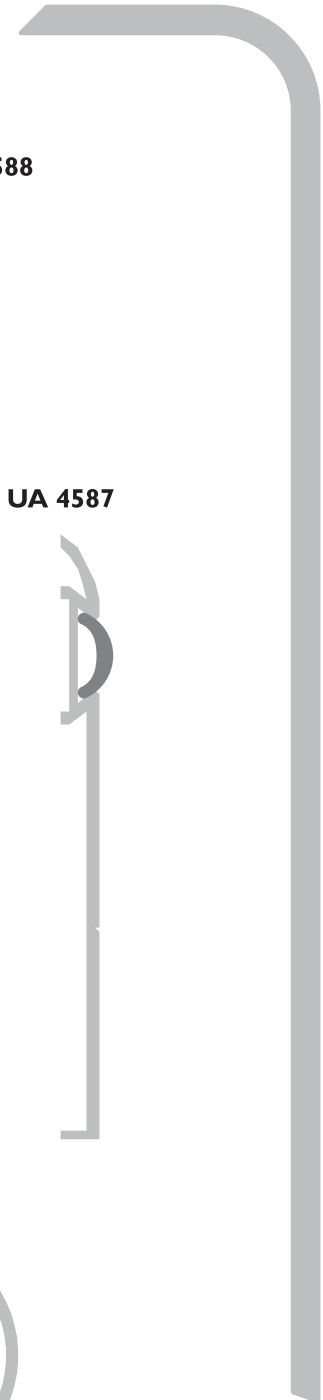
OAD 130 x 5.2 Infill 12

**UA 5973**

ROLLER BLIND BAR

kg/m 0.498 P 143

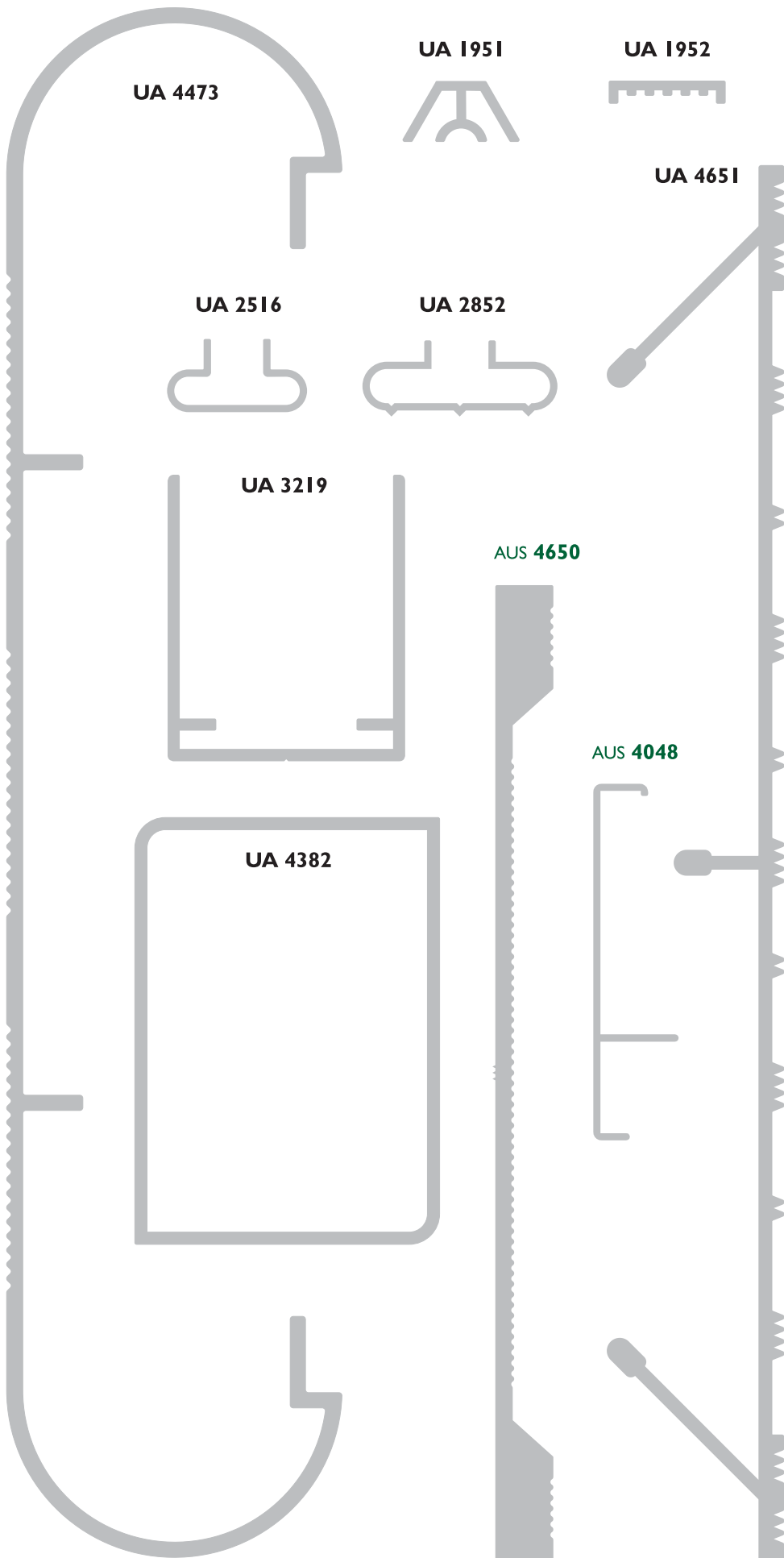
OAD 39.8 x 39.8

**UA 3465****UA 3151****UA 4588****UA 1941****UA 4587****UA 3268****UA 5973****UA 3267**

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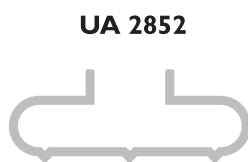


**UA 1951**  
 COLONIAL BEAD  
 kg/m 0.174 P 84  
 OAD 19.2 x 10



**UA 1952**  
 COLONIAL BEAD  
 kg/m 0.121 P 58  
 OAD 19.2 x 3.8

**UA 2516**  
 CUSTOMWOOD INSERT  
 kg/m 0.165 P 104  
 OAD 23 x 12



**UA 2852**  
 SLATWALL INSERT  
 kg/m 0.224 P 140  
 OAD 32 x 12.5

**UA 3219**  
 CAPPING  
 kg/m 0.762 P 285  
 OAD 47 x 39



**AUS 4048**  
 FRAME  
 kg/m 0.270 P 169  
 OAD 58.5 x 14

**AUS 4048**

**UA 4382**  
 CONCRETE SCREED  
 kg/m 1.234 P 236  
 OAD 70 x 50



**UA 4473**  
 BENCH SEAT TOP  
 kg/m 2.787 P 870  
 OAD 254 x 55

**AUS 4650**  
 STAIR STRINGER  
 kg/m 2.039 P 374  
 OAD 160 x 10

**UA 4651**  
 STAIR TREAD  
 kg/m 2.128 P 747  
 OAD 230 x 29.04

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**UA 1663**

7.9mm F SECTION  
kg/m 0.302 P 100  
OAD 23.8 x 15

**UA 1678**

16mm SHELF BRACKET  
kg/m 0.859 P 251  
OAD 60 X 50 Infill 4386

**UA 1679**

6mm SHELF BRACKET  
kg/m 0.505 P 197  
OAD 50 x 35 Infill 4386

**UA 2086**

FLASHING  
kg/m 0.225 P 141  
OAD 40 x 38

**UA 2589**

17mm SHELF BRACKET Melteca  
kg/m 0.861 P 252  
OAD 61 x 50 Infill 4386

**UA 3266**

HANGING FILE RAIL  
kg/m 0.389 P 188  
OAD 32 x 30

**UA 3753**

16mm F - SECTION  
kg/m 0.426 P 134  
OAD 30 x 20

**UA 4353**

18mm SHELF BRACKET  
kg/m 3.312 P 454  
OAD 136 x 102.59

**UA 4779**

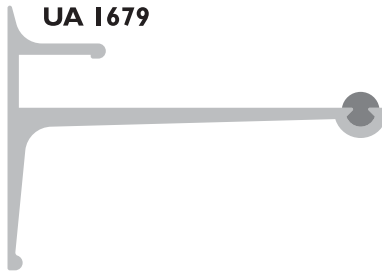
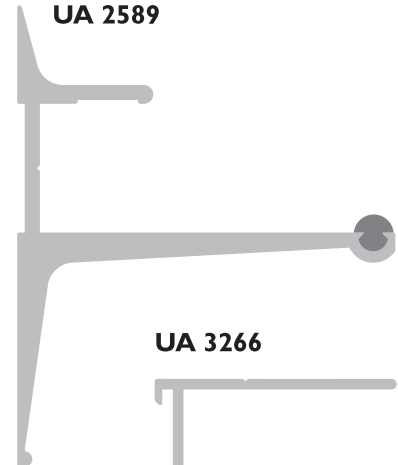
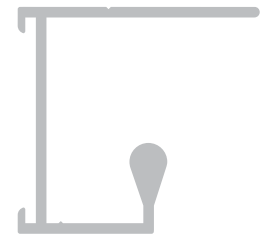
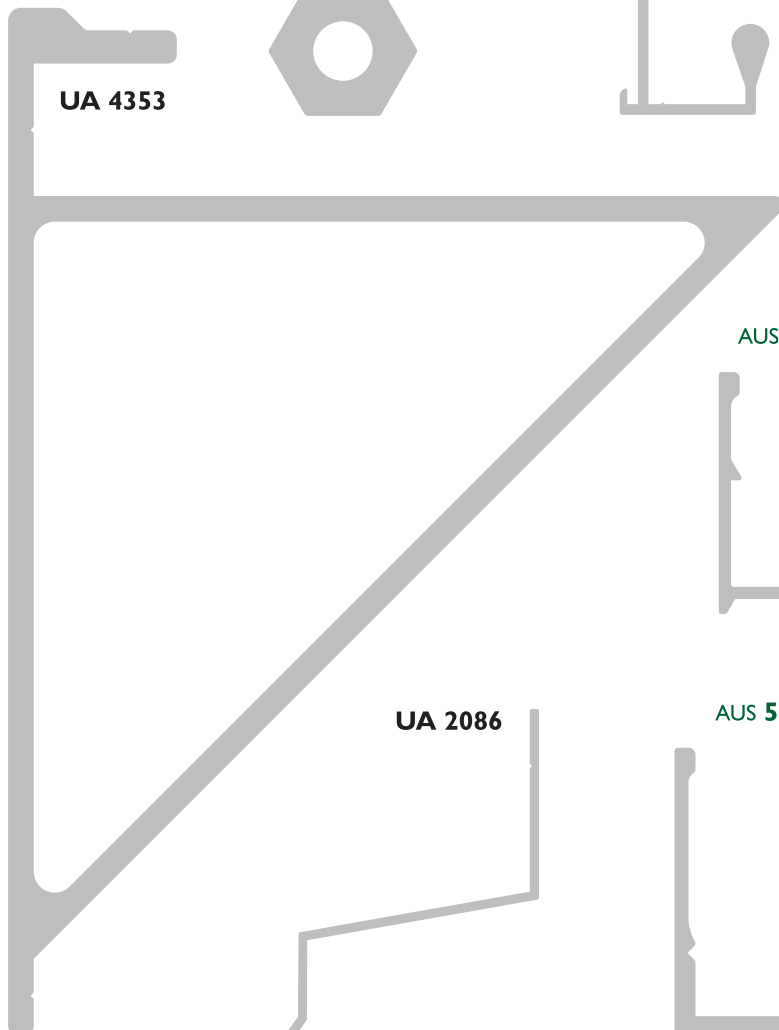
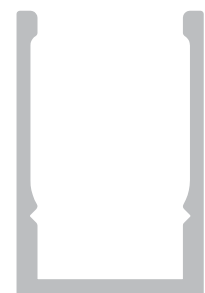
HEX NUT  
kg/m 0.540 P 59  
OAD 19.48 x 17

**AUS 5324**

19mm CHANNEL  
kg/m 0.531 P 198  
OAD 38 x 24.5

**AUS 5652**

13mm CHANNEL  
kg/m 0.376 P 167  
OAD 32 x 19

**UA 1679****UA 3753****UA 1663****UA 1678****UA 2589****UA 3266****UA 4779****UA 4353****AUS 5652****UA 2086****AUS 5324**

**INFILLS SOLD SEPARATELY**



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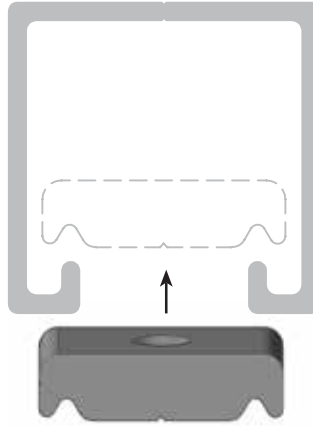
AUS 10134



AUS 5570



AUS 8288



**STRUT CHANNEL NUT**  
Code: SCN

AUS 5570

RIBBED TUBE  
kg/m 0.262 P 51  
OAD 16 x 16

AUS 6357

RACK FRAME  
kg/m 1.323 P 377  
OAD 93.75 x 56

AUS 8222

SILL TRACK  
kg/m 0.229 P 116  
OAD 38 x 8

AUS 8288

STRUT CHANNEL  
kg/m 0.967 P 281  
OAD 41.3 x 41.3

AUS 8446

LETTERBOX SECTION  
kg/m 0.561 P 350  
OAD 94.95 x 22

AUS 10049

22mm GRATING END CAP  
kg/m 0.493 P 123  
OAD 29 x 20

AUS 10050

22mm GRATING JOINER  
kg/m 0.798 P 209  
OAD 43 x 28.8

AUS 10051

32mm GRATING JOINER  
kg/m 0.800 P 231  
OAD 43 x 38.55

AUS 10052

F - BAR  
kg/m 0.713 P 194  
OAD 76.5 x 15

AUS 10134

STRUT CHANNEL  
kg/m 0.829 P 208  
OAD 41.3 x 25

AUS 10136

H - SECTION  
kg/m 0.412 P 207  
OAD 50.7 x 28.8

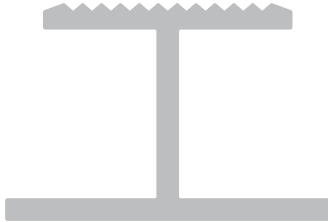
AUS 10309

SQR POST Int Diam 42.4mm  
kg/m 1.694 P 211  
OAD 53.8 x 53.8

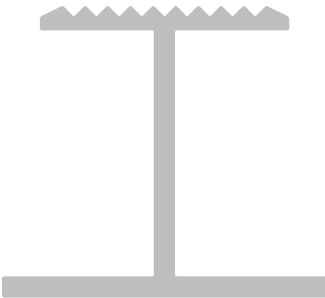
AUS 10049



AUS 10050



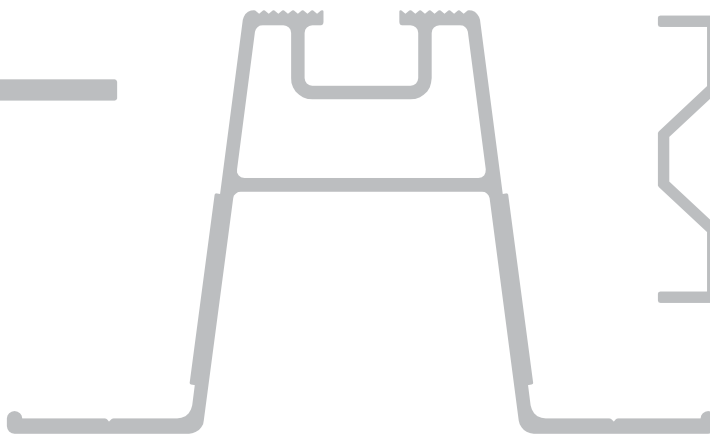
AUS 10051



AUS 10052



AUS 6357



AUS 8222

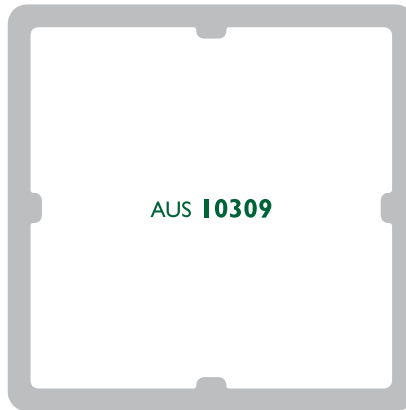
AUS 8446



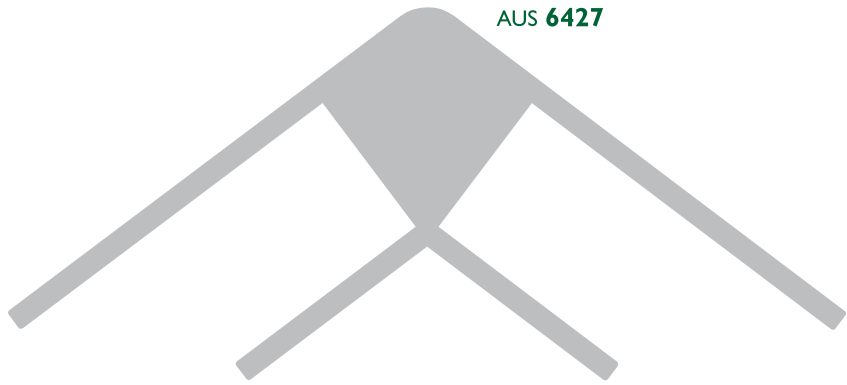
AUS 10136



AUS 10309

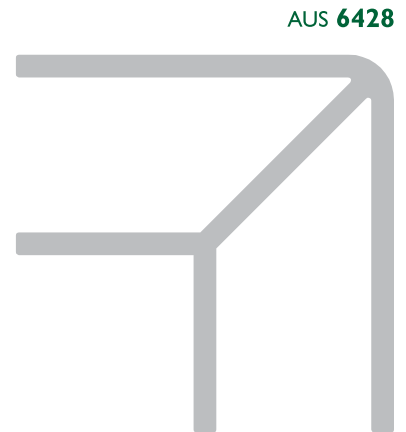
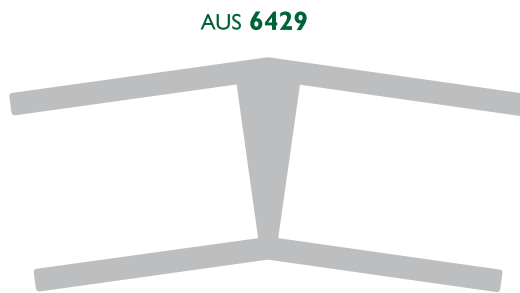


**AUS 6427**  
 106° HONEYCOMB JOINER  
 kg/m 2.660 P 409  
 OAD 69.59 x 67.63



**AUS 6428**  
 90° HONEYCOMB JOINER  
 kg/m 1.426 P 352  
 OAD 50 x 50

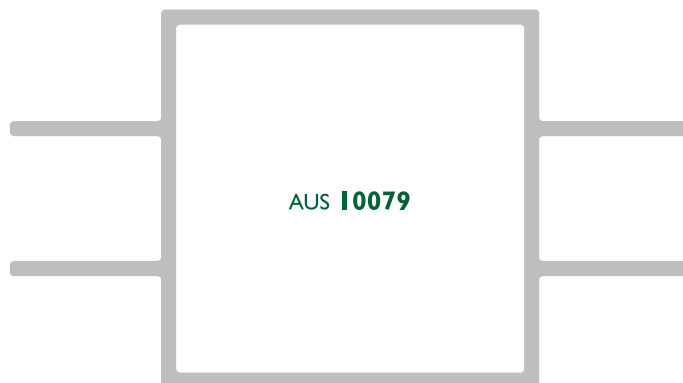
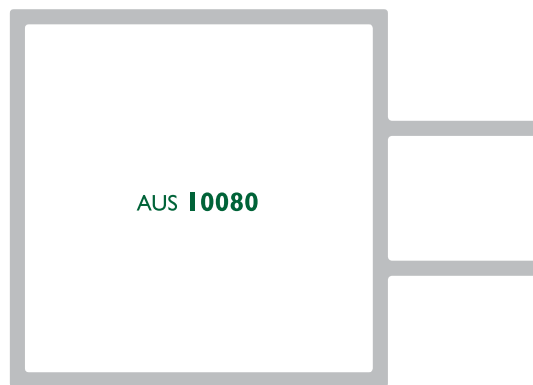
**AUS 6429**  
 164° HONEYCOMB JOINER  
 kg/m 1.371 P 303  
 OAD 68.53 x 31.01



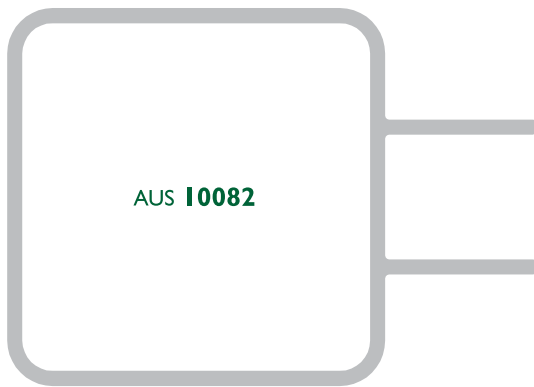
**AUS 8582**  
 SLAT SECTION  
 kg/m 0.353 P 209  
 OAD 65 x 13

**AUS 10079**  
 POST-1  
 kg/m 1.469 P 356  
 OAD 90 x 50

**AUS 10080**  
 POST-2  
 kg/m 1.253 P 278  
 OAD 70 x 50



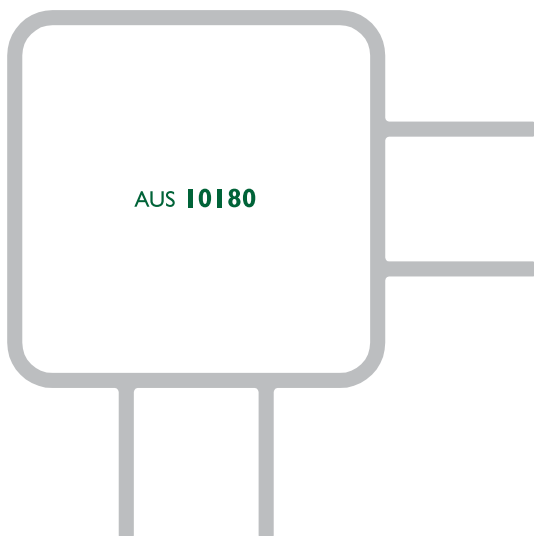
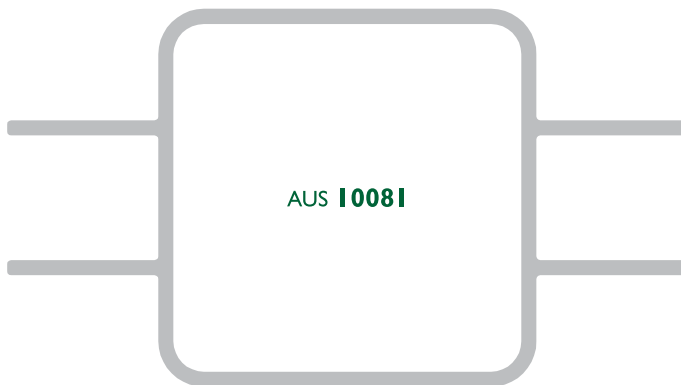
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED, DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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**AUS 10081**  
POST-1 RADIUS  
kg/m 1.422 P 347  
OAD 90 x 50

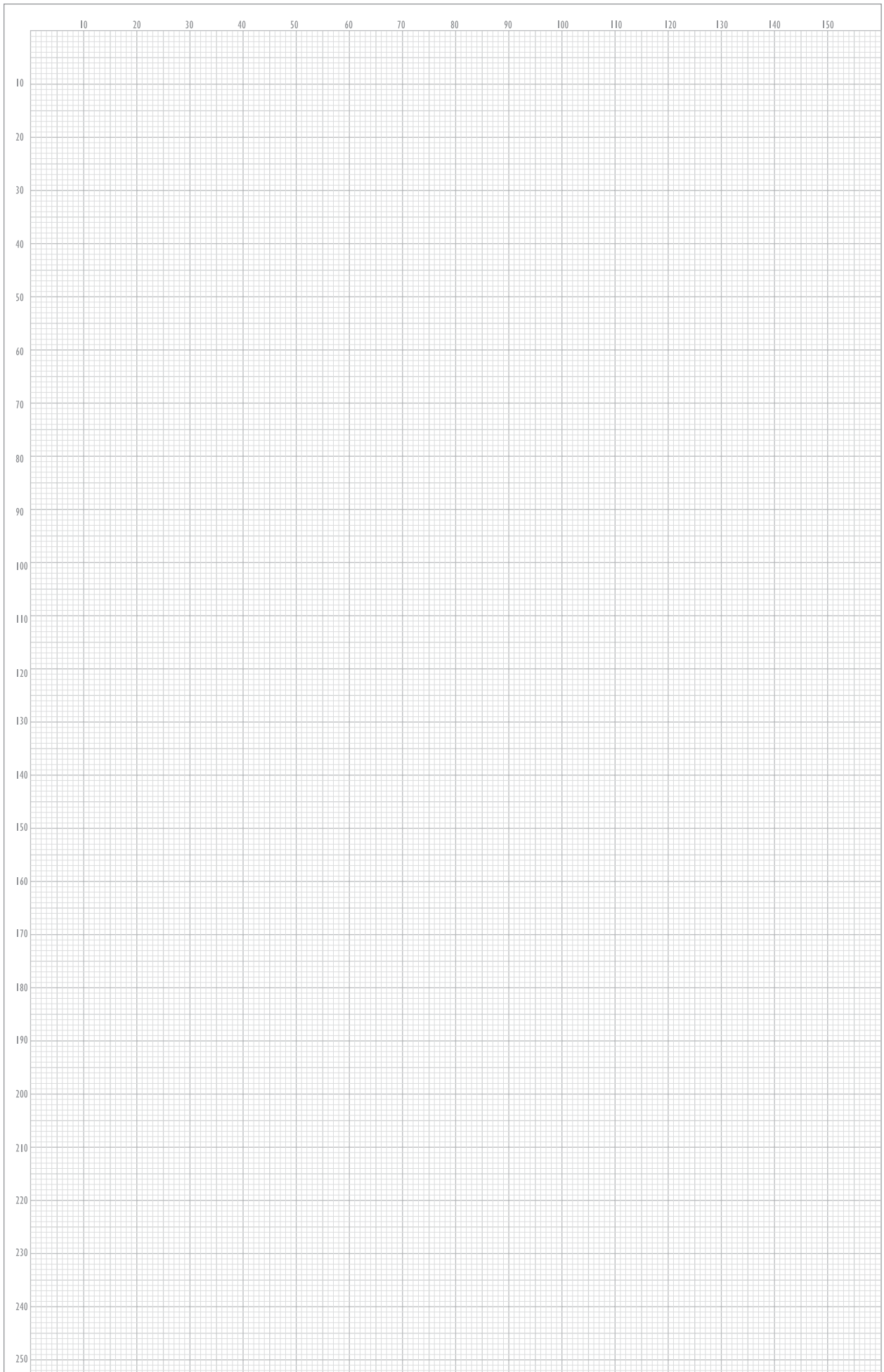
**AUS 10082**  
POST-2 RADIUS  
kg/m 1.206 P 268  
OAD 70 x 50

**AUS 10180**  
CORNER POST  
kg/m 1.422 P 347  
OAD 70 x 70



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## DIE No DESCRIPTION

## WARDROBE - CAVITY

UA 1820	DOOR STILE
UA 1821	DOOR TOP RAIL
UA 1822	DOOR BOTTOM RAIL
UA 1824	DOUBLE TRACK
UA 1825	DOOR JAMB
UA 1848	COAT HANGER RAIL
UA 2590	DOUBLE HEAD
UA 2987	SLIDING DOOR TRACK
UA 2988	SLIDING DOOR PELMET
UA 2999	TRIPLE TRACK
UA 3000	TRIPLE HEAD
UA 3002	SINGLE HEAD
UA 3096	SINGLE DOOR TRACK
UA 3097	DOUBLE DOOR TRACK
UA 3098	PELMET
UA 5147	DOOR TRACK
UA 5148	HANDLE CAP
UA 5149	HANDLE CAP
UA 5150	CAVITY JAMB
UA 7329	COAT HANGER RAIL

## VEE GLIDE

UA 2027	HANGER RAIL
UA 2943	ANGLE
AUS/UA 6556	SHELF BRACKET
AUS/UA 6950	CHANNEL JAMB
AUS/UA 6951	COVER JAMB
AUS/UA 6952	RETURN JAMB
AUS/UA 6953	DOUBLE HEAD
AUS/UA 6954	DOUBLE SILL
AUS/UA 6955	TRIPLE HEAD
AUS/UA 6956	TRIPLE SILL
AUS/UA 6957	SASH RAIL
AUS/UA 6958	GRIP STILE
AUS/UA 6959	LIPPED STILE
AUS/UA 6969	LIPPED SASH RAIL
AUS/UA 6970	OVAL HANGER RAIL
AUS/UA 6971	TRIM CHANNEL
AUS/UA 8560	CHANNEL JAMB
AUS/UA 8767	BOTTOM DOOR TRACK

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**UA 1820**

DOOR STILE  
kg/m 0.510 P 176  
OAD 31 x 24.5

**UA 1821**

DOOR TOP RAIL  
kg/m 0.351 P 167  
OAD 22 x 20

**UA 1822**

DOOR BOTTOM RAIL  
kg/m 0.663 P 315  
OAD 55 x 22

**UA 1824**

DOUBLE TRACK  
kg/m 0.549 P 261  
OAD 61 x 22

**UA 1825**

DOOR JAMB  
kg/m 0.494 P 247  
OAD 65 x 33.5

**UA 1848**

COAT HANGER RAIL  
kg/m 0.553 P 277  
OAD 57 x 52.5

**UA 2590**

DOUBLE HEAD  
kg/m 0.846 P 403  
OAD 68.6 x 37

**UA 2999**

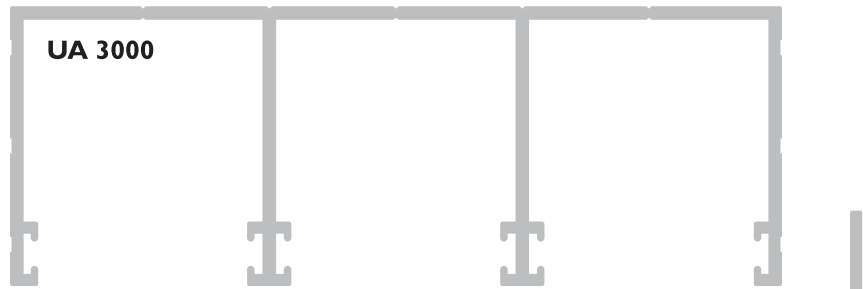
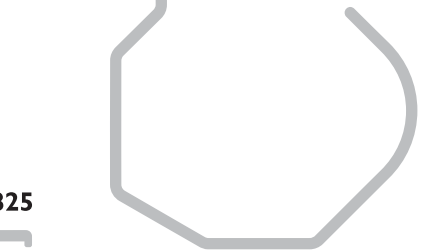
TRIPLE TRACK  
kg/m 0.819 P 388  
OAD 102.1 x 22

**UA 3000**

TRIPLE HEAD  
kg/m 1.296 P 563  
OAD 102.1 x 37

**UA 3002**

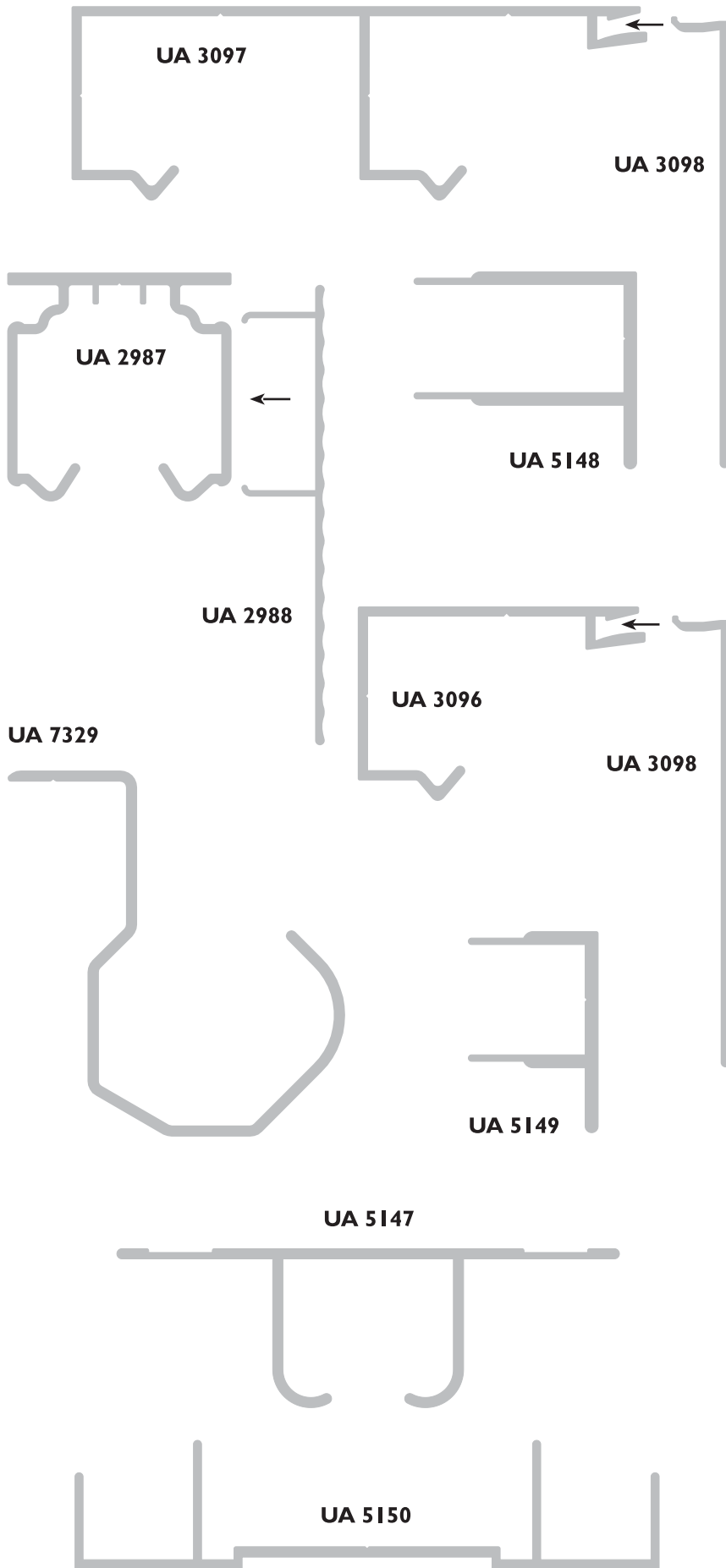
SINGLE HEAD  
kg/m 0.566 P 272  
OAD 52.3 x 35.1

**UA 1821****UA 1820****UA 1848****UA 1822****UA 1825****UA 1824****UA 2999**

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
OAD = OVERALL DIMENSIONS  
P = EXT PERIPHERY

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**UA 2987**  
SLIDING DOOR TRACK  
kg/m 0,629 P 279  
OAD 35,8 x 35,05

**UA 2988**  
SLIDING DOOR PELMET  
kg/m 0,318 P 194  
OAD 72 x 13,06

**UA 3096**  
SINGLE DOOR TRACK  
kg/m 0,435 P 203  
OAD 45 x 30,4

**UA 3097**  
DOUBLE DOOR TRACK  
kg/m 0,818 P 380  
OAD 90 x 30,4

**UA 3098**  
PELMET  
kg/m 0,279 P 159  
OAD 70,65 x 9,1

**UA 5147**  
DOOR TRACK  
kg/m 0,556 P 276  
OAD 79 x 25

**UA 5148**  
HANDLE CAP  
kg/m 0,471 P 196  
OAD 35 x 31

**UA 5149**  
HANDLE CAP  
kg/m 0,312 P 136  
OAD 31 x 20

**UA 5150**  
CAVITY JAMB  
kg/m 0,615 P 316  
OAD 90 x 20

**UA 7329**  
COAT HANGER RAIL  
kg/m 0,545 P 273  
OAD 57 x 52,5

**ASSEMBLY DETAILS**  
Refer: 18-5 to 18-8

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**AUS/UA 6950**

CHANNEL JAMB  
kg/m 0.554 P 313  
OAD 126 x 16

**AUS/UA 6951**

COVER JAMB  
kg/m 0.510 P 269  
OAD 85.5 x 34.5

**AUS/UA 6952**

RETURN JAMB  
kg/m 0.716 P 389  
OAD 126.5 x 34

**AUS/UA 6953**

DOUBLE HEAD  
kg/m 0.702 P 397  
OAD 81.6 x 40

**AUS/UA 6954**

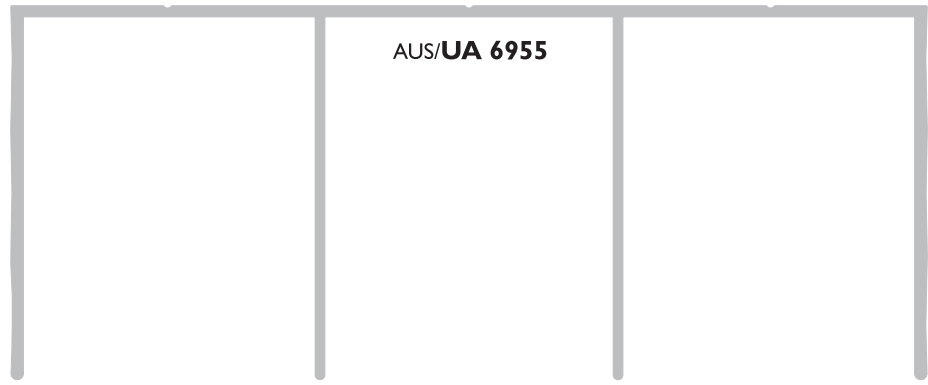
DOUBLE SILL  
kg/m 0.592 P 277  
OAD 82.1 x 25.2

**AUS/UA 6955**

TRIPLE HEAD  
kg/m 1.247 P 634  
OAD 122.5 x 50

**AUS/UA 6956**

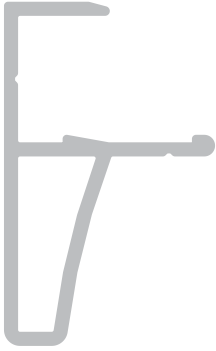
TRIPLE SILL  
kg/m 0.898 P 419  
OAD 122.3 x 25.2



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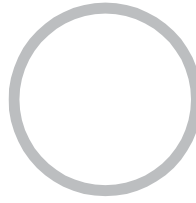
AUS/UA 6556



AUS/UA 6957



UA 2027



UA 2027

HANGER RAIL  
kg/m 0.246 P 80  
OAD 25.4 x 25.4

UA 2943

ANGLE  
kg/m 0.218 P 104  
OAD 32 x 20

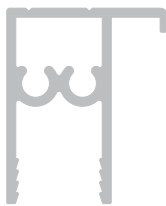
AUS/UA 6556

SHELF BRACKET  
kg/m 0.502 P 165  
OAD 45.5 x 27.8

AUS/UA 6971



AUS/UA 6969



AUS/UA 6970



AUS/UA 6957

SASH RAIL  
kg/m 0.298 P 114  
OAD 26 x 14.25

AUS/UA 6958

GRIP STILE  
kg/m 0.272 P 183  
OAD 34 x 21.2

UA 2943



AUS/UA 6959



AUS/UA 6958



AUS/UA 6959

LIPPED STILE  
kg/m 0.275 P 173  
OAD 34 x 19.5

AUS/UA 6969

LIPPED SASH RAIL  
kg/m 0.318 P 131  
OAD 26 x 21.4

AUS/UA 6970

OVAL HANGER RAIL  
kg/m 0.275 P 78  
OAD 30 x 15

AUS/UA 8560



AUS/UA 6971

TRIM CHANNEL  
kg/m 0.197 P 117  
OAD 20.2 x 19.2

**ACCESSORIES:**

**WVG300 DOOR ROLLER**

Code: WARDVGBEARING

**WVG100 HEAD GUIDE**

Code: WARDVGGUIDEWHPR

**WVG130WH OVAL RAIL BRACKET**

Code: WARDVGOVALBKTWH

**WA200CL 4mm GLAZING CHANNEL**

Code: WARDVGGGLASSFR

**WVG200 STILE BUFFER STRIP**

Code: WARDVGBUFFERFR

AUS/UA 8767



AUS/UA 8560

CHANNEL JAMB  
kg/m 0.417 P 231  
OAD 86.5 x 16

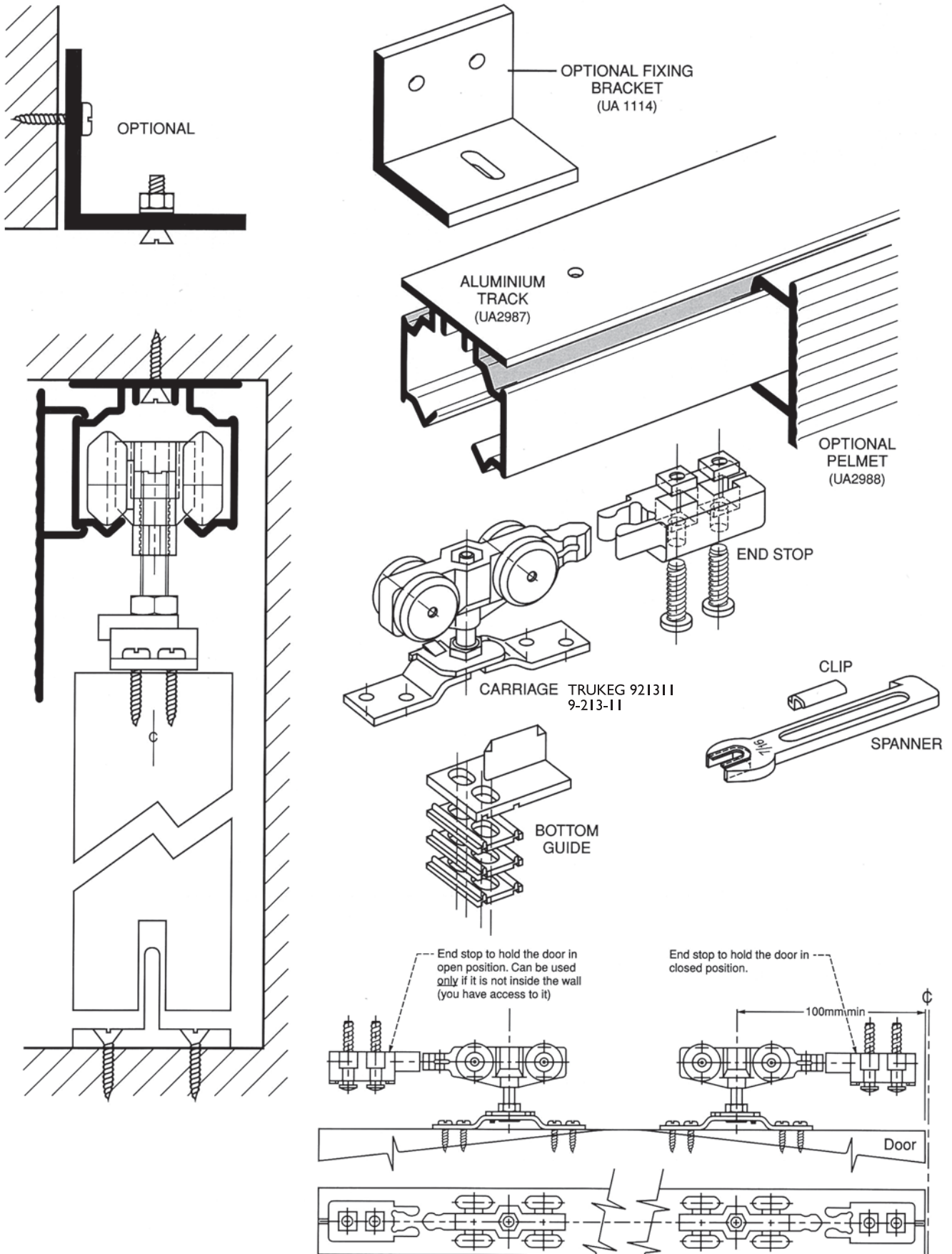
AUS/UA 8767

BOTTOM DOOR TRACK  
kg/m 0.325 P 160  
OAD 26 x 25

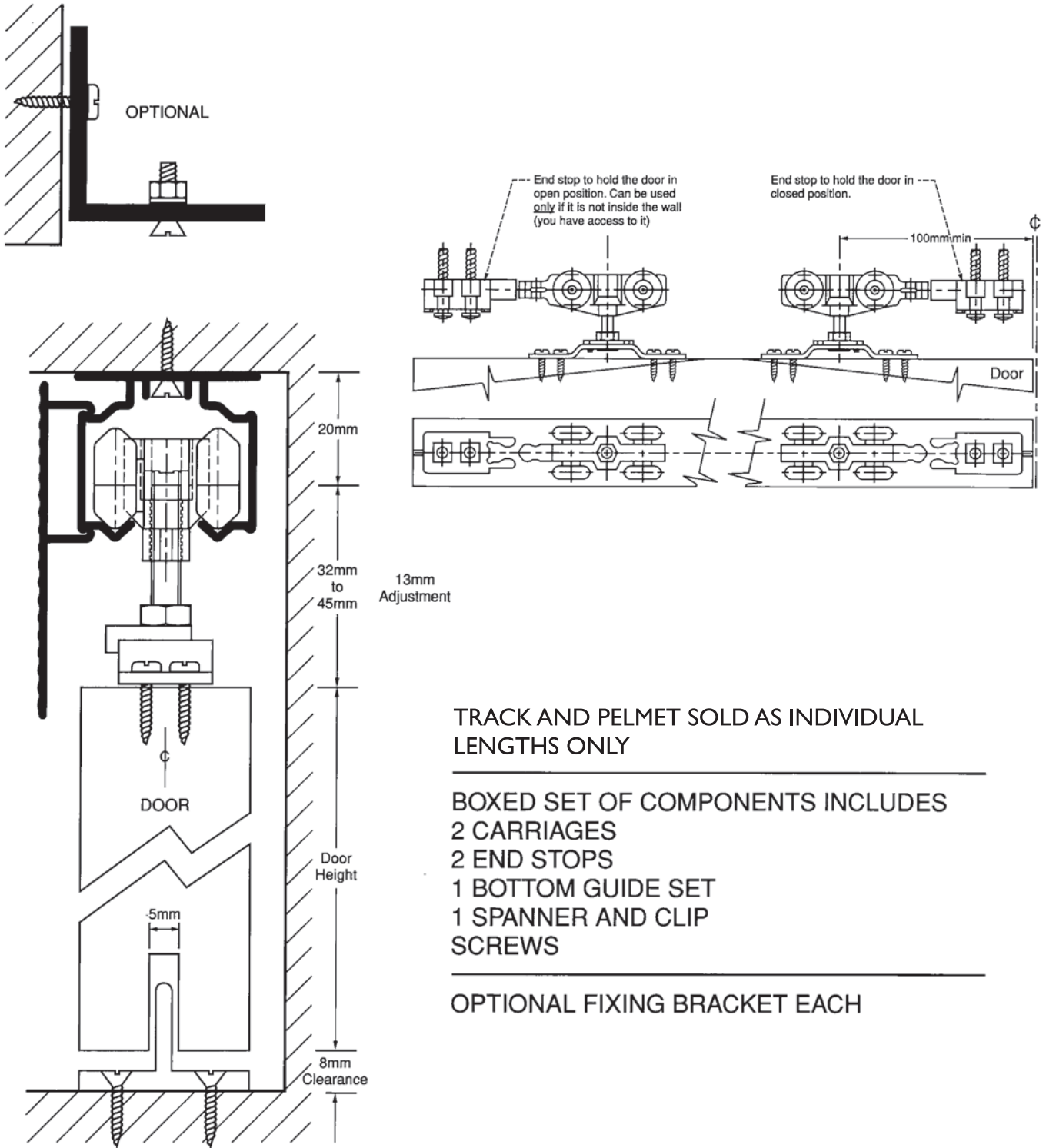
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
OAD = OVERALL DIMENSIONS  
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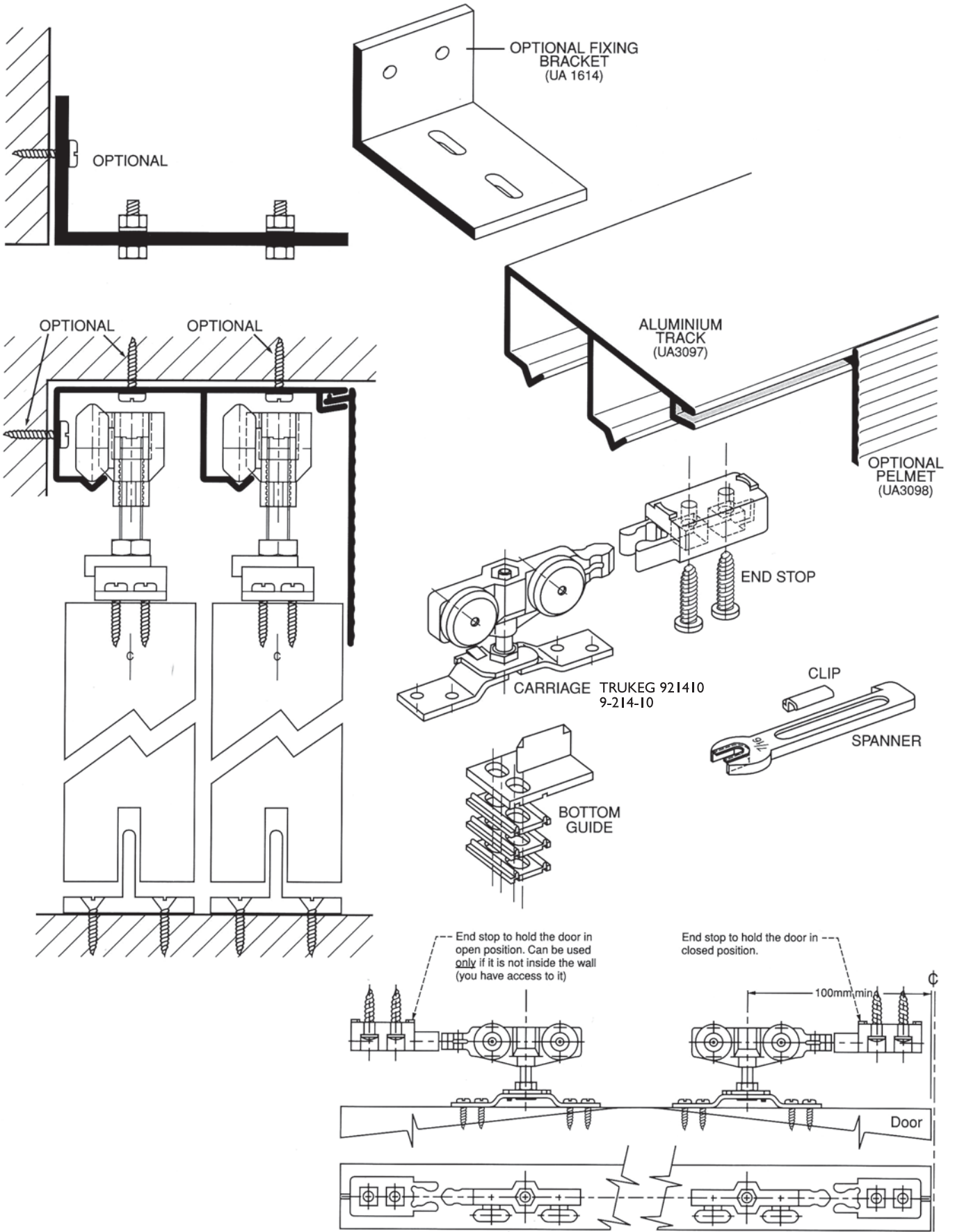
TRACK AND PELMET SOLD AS INDIVIDUAL LENGTHS ONLY

BOXED SET OF COMPONENTS INCLUDES  
 2 CARRIAGES  
 2 END STOPS  
 1 BOTTOM GUIDE SET  
 1 SPANNER AND CLIP  
 SCREWS

OPTIONAL FIXING BRACKET EACH

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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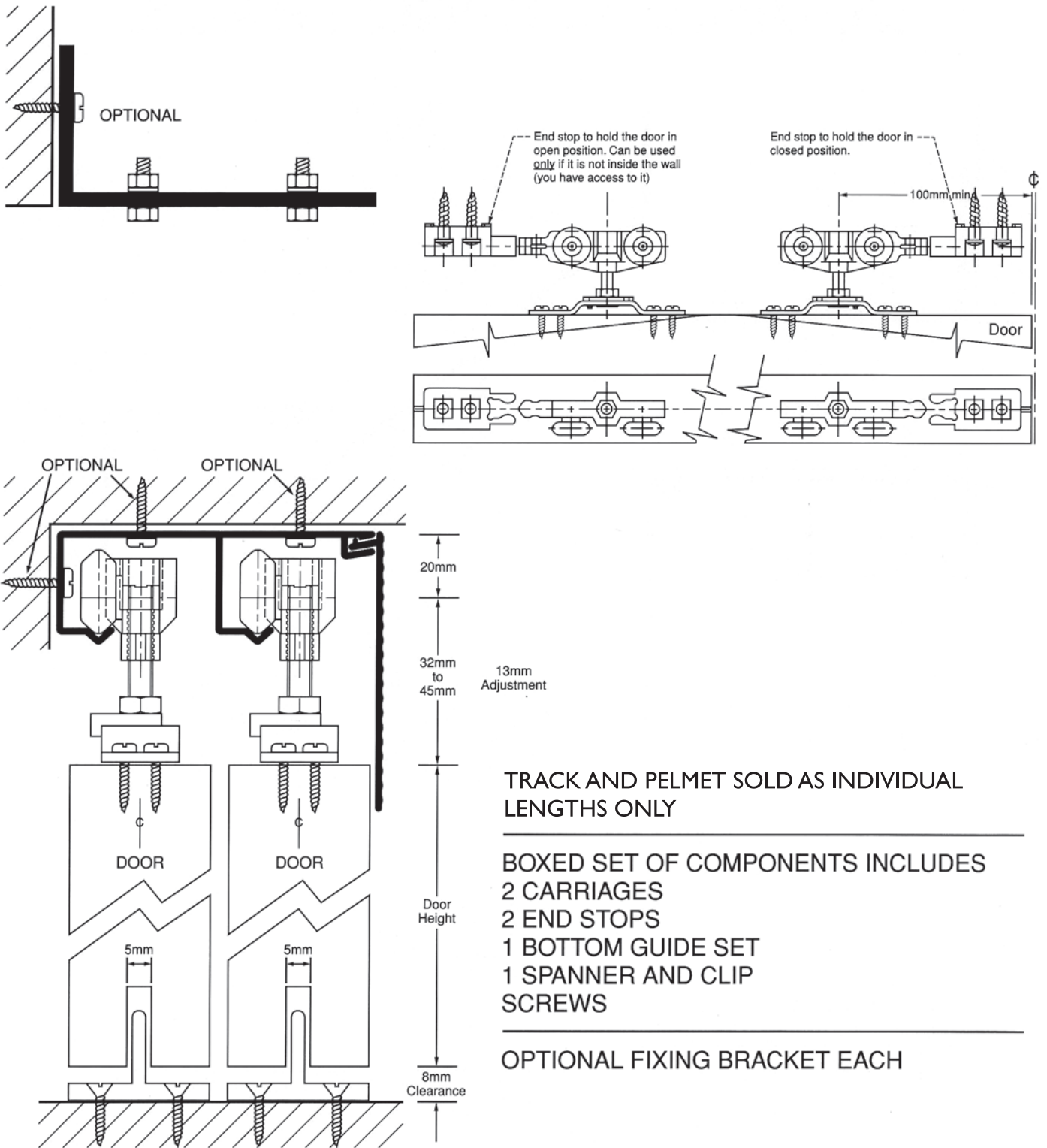




DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

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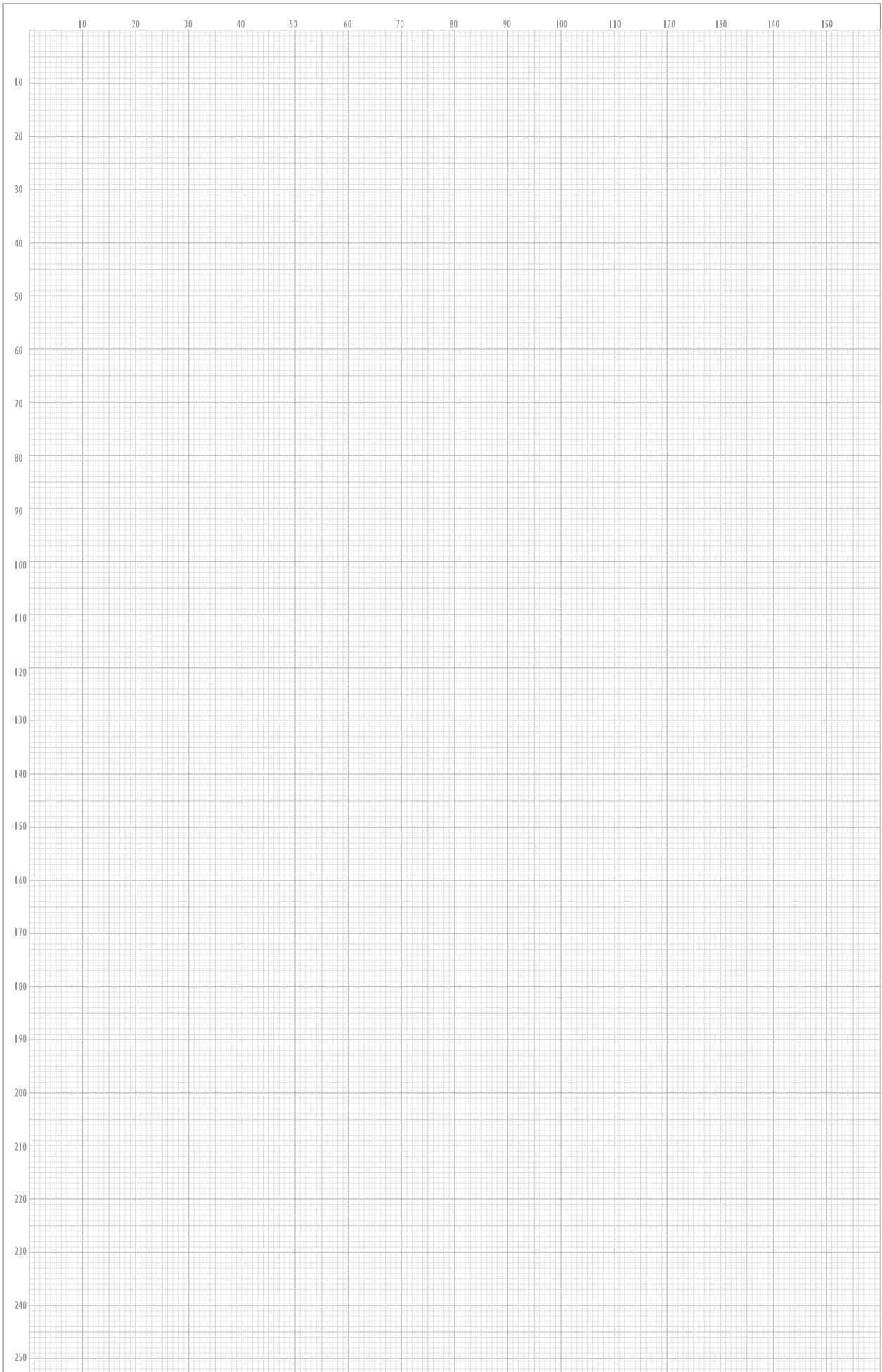
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<b>DIE No</b>	<b>DESCRIPTION</b>
<b>UA 1310</b>	<b>DRAFT EXCLUDER</b>
<b>UA 1349</b>	<b>DRAFT EXCLUDER</b>
<b>UA 1438</b>	<b>THRESHOLD</b>
<b>UA 1521</b>	<b>DOOR SEAL TOP</b>
<b>UA 1522</b>	<b>DOOR SEAL BOTTOM</b>

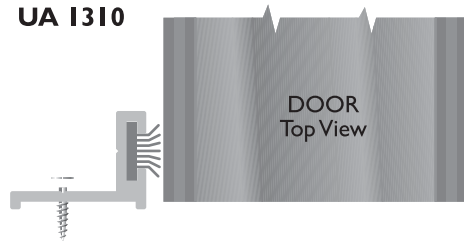
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.  
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**UA 1310**

DRAFT EXCLUDER  
kg/m 0.145 P 75  
OAD 18 x 13

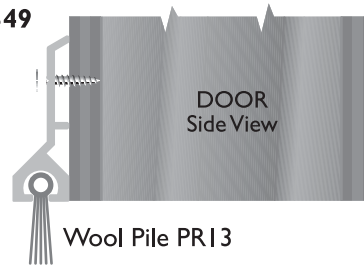
**UA 1310**



**UA 1349**

DRAFT EXCLUDER  
kg/m 0.123 P 72  
OAD 22 x 7.5

**UA 1349**



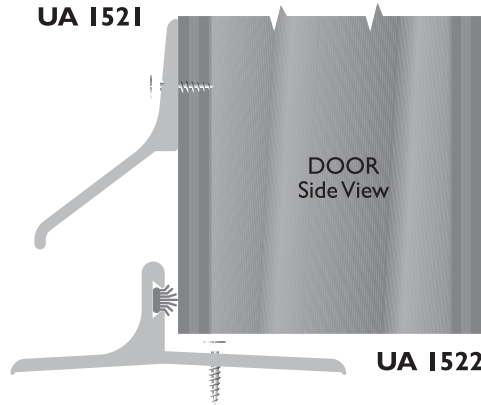
**UA 1438**

THRESHOLD  
kg/m 0.530 P 239  
OAD 70 x 9 Infills 4126,111

**UA 1521**

DOOR SEAL TOP  
kg/m 0.197 P 81  
OAD 30.5 x 19

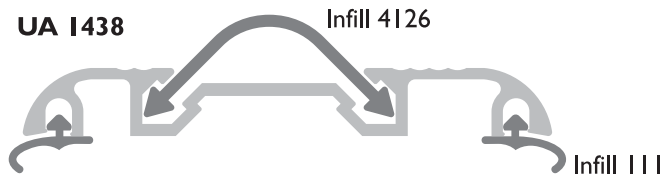
**UA 1521**



**UA 1522**

DOOR SEAL BOTTOM  
kg/m 0.290 P 117  
OAD 44.4 x 15

**UA 1438**



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**INFILLS SOLD SEPARATELY**

## DIE No DESCRIPTION

## SIGN FRAME

UA 1332	10mm SIGN FRAME
UA 1366	6mm SIGN FRAME
UA 1367	6mm SIGN FRAME
UA 1809	7mm SIGN FRAME
UA 1997	5mm SIGN FRAME
UA 2982	7mm SIGN FRAME
UA 3989	7mm SIGN FRAME
UA 3990	7mm SIGN FRAME
UA 5948	3mm SIGN FRAME
UA 5966	6mm SIGN FRAME
AUS 8449	5mm SIGN FRAME
AUS 8450	5mm SIGN FRAME
AUS 8864	SIGN FRAME

## STREET SIGN

UA 2032	POST - BLADE HOLDER
UA 2033	STREET SIGN BLADE
UA 2080	STREET SIGN BLADE
UA 2115	SIGN BLADE EXTRA
UA 2386	9mm POST ATTACHMENT
UA 3796	STREET SIGN BLADE
UA 5430	STREET SIGN BLADE
UA 5819	STREET SIGN BLADE
AUS 6490	BACKING CHANNEL
AUS 10229	SIGN BLADE
AUS 10230	SIGN BLADE

## SIGN PANEL

UA 1513	STAKE
UA 1642	SQUARE HOLLOW
UA 5633	STAKE
UA 6596	4mm SIGN PANEL CAP
UA 6597	4mm SIGN PANEL JOINTER
UA 6598	4mm SIGN PANEL INT/EXT CORNER
UA 6599	4mm SIGN PANEL FRAME
UA 6694	4mm SIGN PANEL TEE CHANNEL
UA 6695	4mm SIGN PANEL ANGLE CHANNEL
UA 6696	4mm SIGN PANEL BOX FRAME
AUS 8109	SIGN PANEL ZED
AUS 8110	SIGN PANEL ZED
AUS 8111	SIGN PANEL ZED

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**UA 1809**

7mm SIGN FRAME  
kg/m 2.383 P 701  
OAD 200 x 20

**UA 1997**

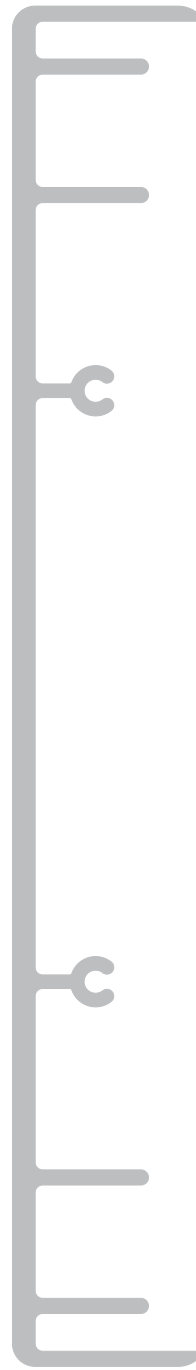
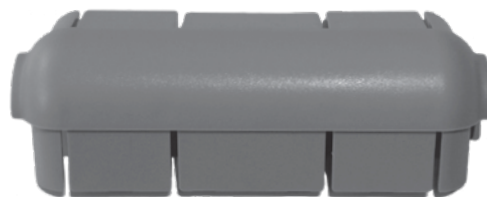
5mm SIGN FRAME  
kg/m 2.171 P 627  
OAD 180 x 25

**UA 2982**

7mm SIGN FRAME  
kg/m 2.388 P 632  
OAD 200 x 25

**UA 5966**

6mm SIGN FRAME  
kg/m 1.116 P 601  
OAD 160.6 x 27.25

**UA 2982****UA 1809****UA 1997****UA 5966****SIGN FRAME CORNER**

(POLYPROPYLENE)

Fits UA 5966

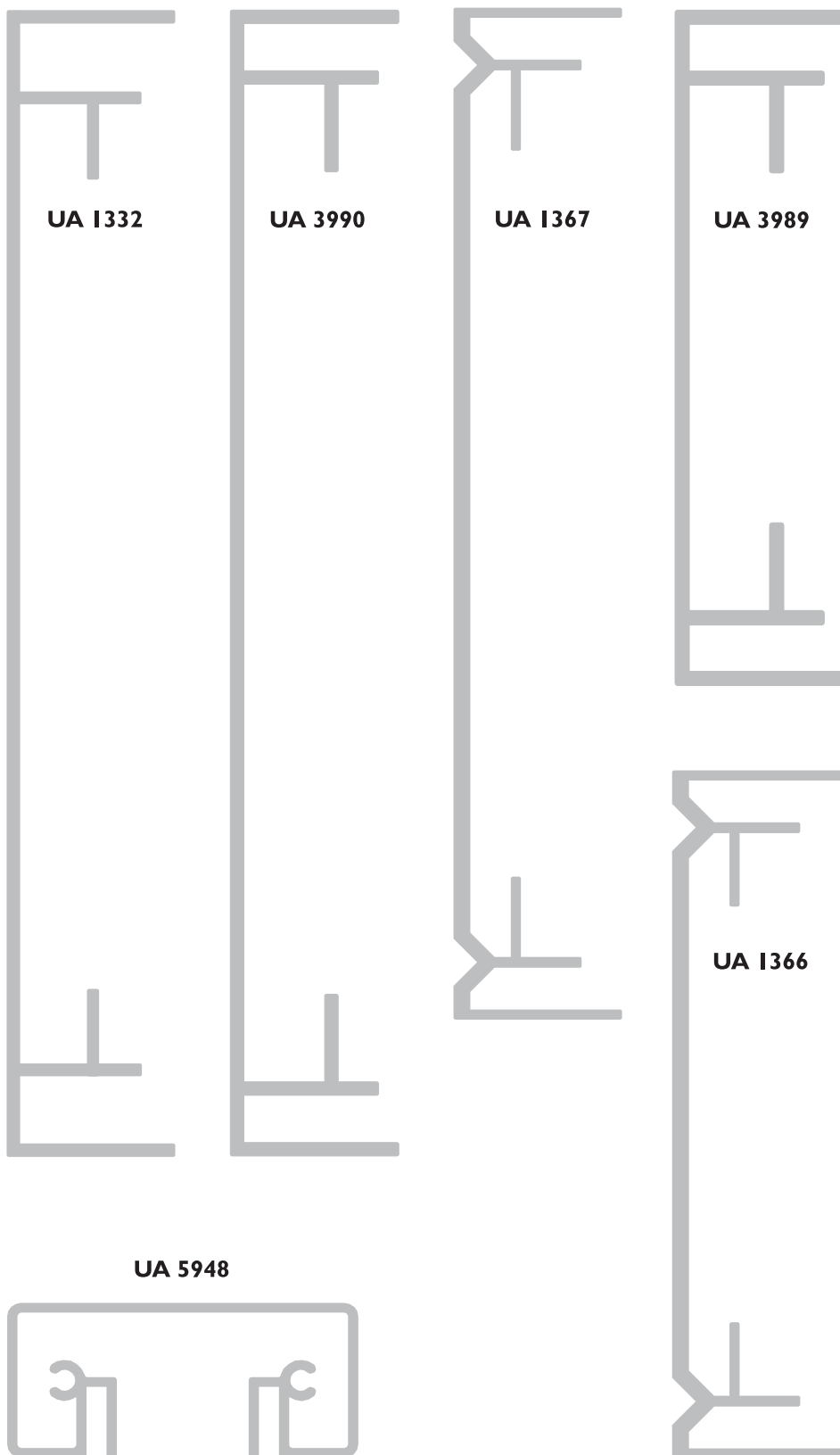
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**P** = EXT PERIPHERY

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**UA 1332**  
10mm SIGN FRAME  
kg/m 1.479 P 559  
OAD 170 x 25

**UA 1366**  
6mm SIGN FRAME  
kg/m 1.118 P 412  
OAD 102 x 25

**UA 1367**  
6mm SIGN FRAME  
kg/m 1.443 P 508  
OAD 150 x 25

**UA 3989**  
7mm SIGN FRAME  
kg/m 1.144 P 427  
OAD 100 x 25

**UA 3990**  
7mm SIGN FRAME  
kg/m 1.522 P 567  
OAD 170 x 25

**UA 5948**  
3mm SIGN FRAME  
kg/m 0.743 P 366  
OAD 52 x 23

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**UA 3796**

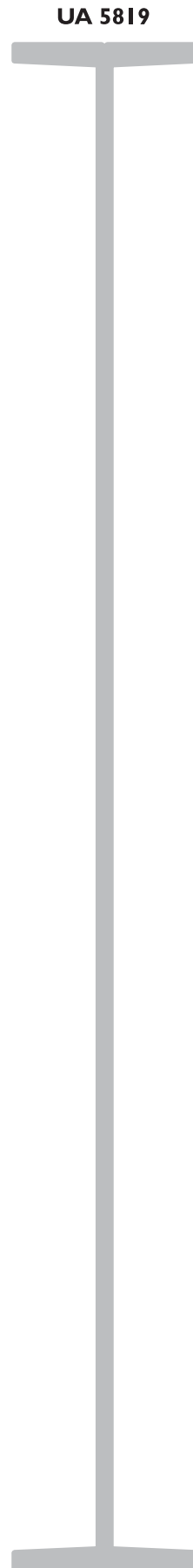
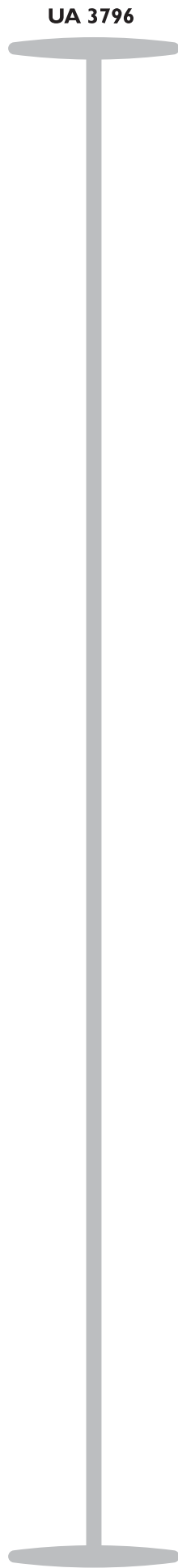
STREET SIGN BLADE  
 kg/m 2.093 P 598  
 OAD 250 x 28

**UA 5430**

STREET SIGN BLADE  
 kg/m 1.852 P 519  
 OAD 207.2 x 28

**UA 5819**

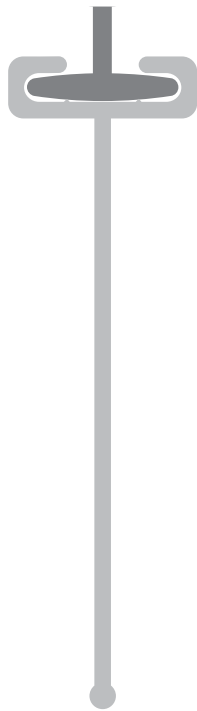
STREET SIGN BLADE  
 kg/m 2.021 P 569  
 OAD 232.2 x 28



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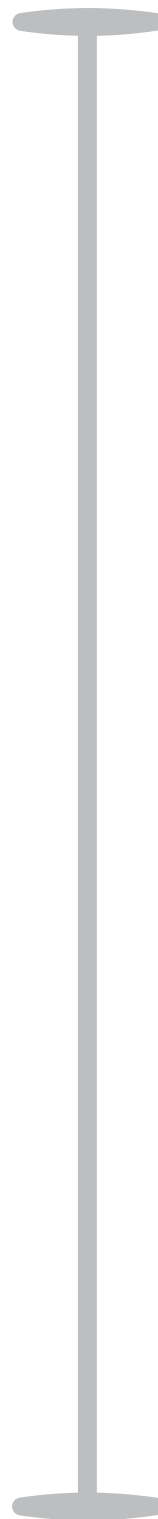
UA 2115



UA 2033



UA 2080

**UA 2032**

POST - BLADE HOLDER  
kg/m 0.964 P 228  
OAD 57.95 x 50

**UA 2033**

STREET SIGN BLADE  
kg/m 1.291 P 366  
OAD 150 x 20

**UA 2080**

STREET SIGN BLADE  
kg/m 1.632 P 466  
OAD 200 x 20

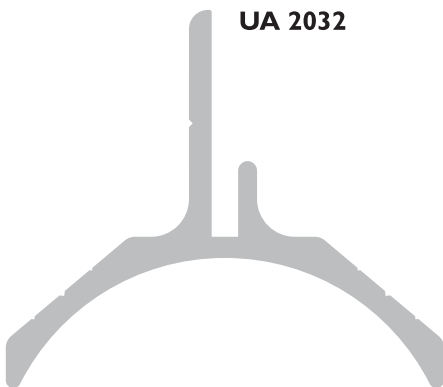
**UA 2115**

SIGN BLADE EXTRA fits 2033, 2080  
kg/m 0.756 P 249  
OAD 86.31 x 25

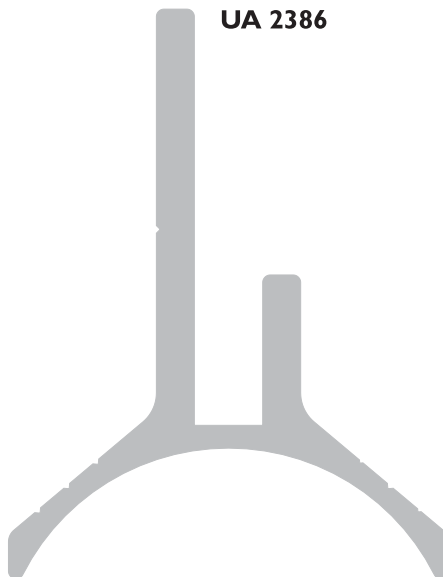
**UA 2386**

9mm POST ATTACHMENT  
kg/m 1.687 P 297  
OAD 75 x 57.95

UA 2032



UA 2386



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**AUS 6490**

BACKING CHANNEL  
kg/m 0.698 P 185  
OAD 28.5 x 25.5

**AUS 8449**

5mm SIGN FRAME  
kg/m 1.412 P 528  
OAD 150 x 20

**AUS 8450**

5mm SIGN FRAME  
kg/m 2.360 P 672  
OAD 200 x 21

**AUS 8864**

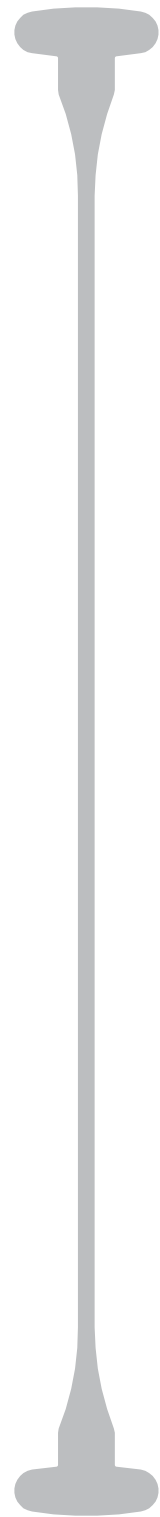
SIGN FRAME  
kg/m 0.986 P 427  
OAD 133.2 x 19

**AUS 10229**

SIGN BLADE  
kg/m 1.962 P 448  
OAD 199.45 x 19.05

**AUS 10230**

SIGN BLADE  
kg/m 1.665 P 348  
OAD 149.45 x 19.05

**AUS 8450****AUS 8449****AUS 8864****AUS 10230****AUS 10229****AUS 6490**

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UA 6596



UA 6597



UA 6598

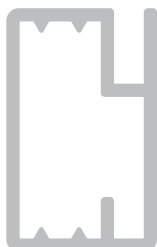


UA 6695

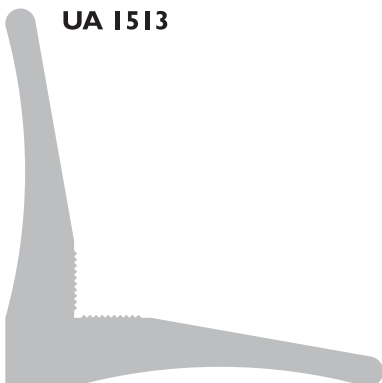


UA 6694

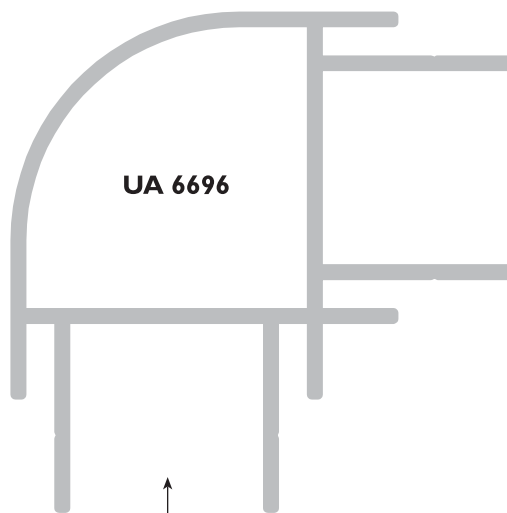
UA 6599



UA 1513



UA 6696



UA 1642



UA 1513

STAKE ( green ) fits 6694, 6695  
kg/m 1.416 P 196  
OAD 50 x 50

UA 1642

SQUARE HOLLOW  
kg/m 0.313 P 102  
OAD 25,4 x 25,4

UA 5633

STAKE ( yellow ) fits 6599  
kg/m 1.725 P 352  
OAD 50 x 49,5

UA 6596

4mm SIGN PANEL CAP  
kg/m 0.100 P 55  
OAD 15 x 7,2

UA 6597

4mm SIGN PANEL JOINTER  
kg/m 0.165 P 91  
OAD 25 x 7,5

UA 6598

4mm SIGN PANEL INT/EXT CORNER  
kg/m 0.198 P 103  
OAD 18,95 x 18,75

UA 6599

4mm SIGN PANEL FRAME  
kg/m 0.471 P 121  
OAD 32 x 19,7

UA 6694

4mm SIGN PANEL TEE CHANNEL  
kg/m 0.342 P 134  
OAD 34,3 x 23,1

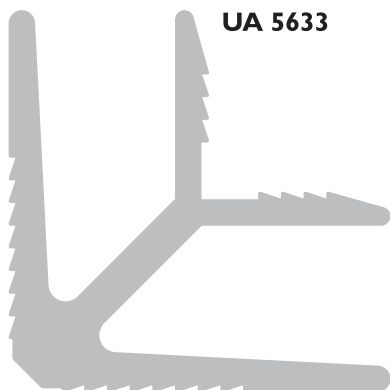
UA 6695

4mm SIGN PANEL ANGLE CHANNEL  
kg/m 0.293 P 110  
OAD 23,1 x 22,3

UA 6696

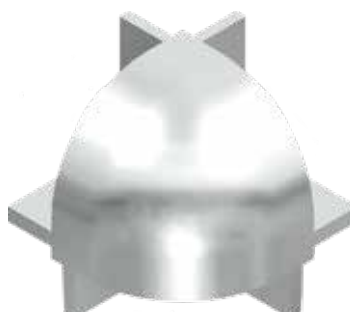
4mm SIGN PANEL BOX FRAME  
kg/m 1.226 P 429  
OAD 65,8 x 65,8

UA 5633



UCI999 CAST BOX CORNER

Fits UA 6696



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**AUS 8109**

SIGN PANEL ZED  
 kg/m 0.276 P 131  
 OAD 40 x 25.5

**AUS 8110**

SIGN PANEL ZED  
 kg/m 0.275 P 129  
 OAD 40 x 23.9

**AUS 8111**

SIGN PANEL ZED  
 kg/m 0.361 P 171  
 OAD 60 x 25.5

**AUS 8109****AUS 8110****AUS 8111**

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DIE No	DESCRIPTION	DIE No	DESCRIPTION
<b>BALUSTRADE</b>		<b>FENCING</b>	
UA 1280	TOP RAIL STIFFENER	UA 1212	POST / RAIL
UA 1333	POCKET CAP	UA 1225	RAILING TUBE
UA 1988	RHS RAILING	UA 1855	FENCE SLAT
UA 2096	HANDRAIL CHANNEL	UA 2131	RAIL CHANNEL
UA 2097	CHANNEL LID	UA 2132	RAIL INSERT
UA 2098	HANDRAIL	UA 2820	FENCE RAIL LID
UA 2099	GLAZING CHANNEL	UA 2821	RAILING
UA 2102	GLAZING BAR	UA 2822	FENCE RAIL
UA 2103	GLAZING BEAD	UA 3178	POST / RAIL
UA 2131	RAIL CHANNEL	UA 3616	RAIL CHANNEL
UA 2132	RAIL INSERT	UA 5489	RHS RAILING
UA 2164	HANDRAIL	UA 5949	18mm CAPPING
UA 2487	POST	UA 6393	FENCE SLAT
UA 3347	HANDRAIL BASE	UA 6394	FENCE SLAT
UA 3348	HIGHWAY HANDRAIL	UA 6397	10mm SLAT INSERT
UA 3349	RAILING	AUS 6506	FENCE SLAT 1.2mm
UA 3595	FLUSH CAP	AUS 6507	FENCE SLAT 1.4mm
UA 3596	HANDRAIL	UA 6856	FENCE PANEL
UA 3597	BALUSTER	UA 6857	TONGUE & GROOVE PLANK
UA 3616	RAIL CHANNEL	UA 6859	SLIDING GATE TRACK
UA 3617	GLAZING INSERT	UA 7092	RAIL CHANNEL
UA 4007	POST	UA 7613	FENCE PANEL
UA 4134	CHANNEL LID	UA 7654	FENCE RAIL CHANNEL
AUS 4729	HANDRAIL	UA 7655	FENCE RAIL LID
UA 4737	HANDRAIL	UA 7656	FENCE PAILING
AUS 5115	HANDRAIL	UA 7657	FENCE PAILING
AUS 5566	POST BASE	UA 7694	FENCE PANEL
UA 6395	CHANNEL	AUS 10615	SLAT CHANNEL
AUS 6461	RAILING	AUS 10616	SLAT INFILL Punched
AUS 6500	GLAZING POST		
AUS 6501	GLAZING POST		
AUS 6502	GLAZING POST CAP		
UA 6585	POST		
UA 7085	POST		
UA 7086	GLAZING INSERT		
UA 7087	FLUSH CAP		
UA 7088	GLAZING BAR		
UA 7089	GLAZING BEAD		
UA 7090	HANDRAIL		
UA 7091	FIXING BLOCK		
UA 7092	RAIL CHANNEL		
AUS 8214	HANDRAIL		
AUS 8233	HANDRAIL		
AUS 10353	LADY WAIST HANDRAIL		
AUS 10354	CIRCLE HANDRAIL		
UA 10414	20mm BALUSTER INFILL		
UA 10415	100mm BALUSTER SPACER		
UA 10422	FEMALE HINGE		
UA 10422	MALE HINGE		
UA 10423	HEAVY DUTY RAIL		
UA 10424	FLUSH INFILL		
UA 10444	POST SPIGOT		

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

OAD = OVERALL DIMENSIONS  
P = EXT PERIPHERY

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**UA 1280**

TOP RAIL STIFFENER  
kg/m 0.321 P 160  
OAD 50 x 16

**UA 1333**

POCKET CAP  
kg/m 0.121 P 78  
OAD 16.5 x 12

**UA 1988**

RHS RAILING  
kg/m 0.491 P 120  
OAD 40 x 20

**UA 3595**

FLUSH CAP  
kg/m 0.165 P 92  
OAD 35.85 x 5.5

**UA 3616**

RAIL CHANNEL  
kg/m 0.536 P 183  
OAD 40 x 25

**UA 3617**

GLAZING INSERT  
kg/m 0.313 P 172  
OAD 35.85 x 20

**UA 7086**

GLAZING INSERT  
kg/m 0.441 P 236  
OAD 58.5 x 24.5

**UA 7087**

FLUSH CAP  
kg/m 0.299 P 136  
OAD 58.5 x 5.47

**UA 7088**

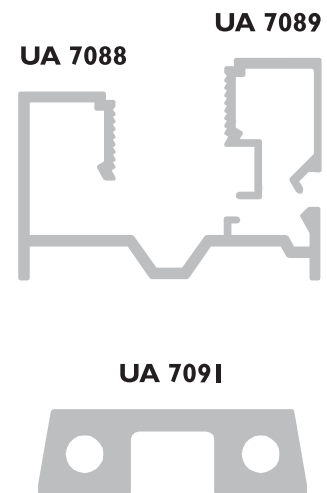
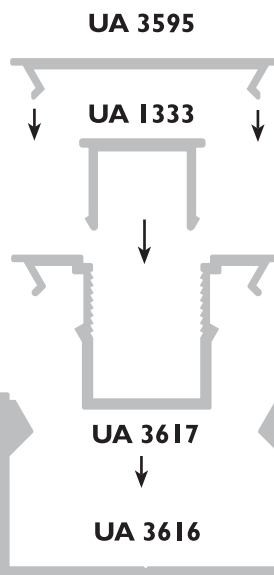
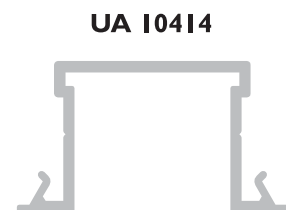
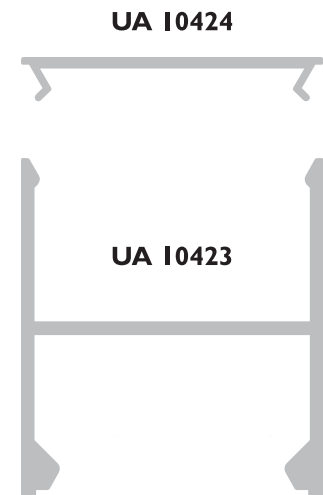
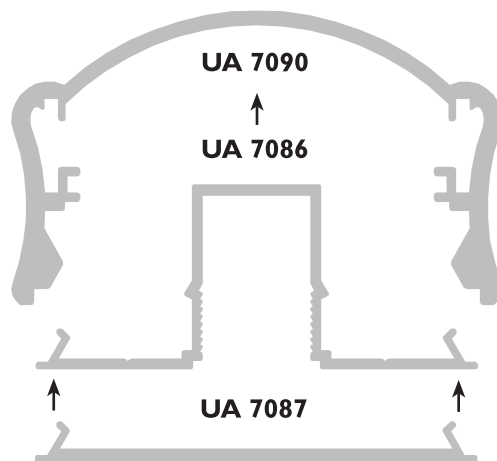
GLAZING BAR  
kg/m 0.415 P 211  
OAD 40 x 25

**UA 7089**

GLAZING BEAD  
kg/m 0.182 P 113  
OAD 18.7 x 12.9

**UA 7090**

HANDRAIL  
kg/m 0.964 P 310  
OAD 65 x 39  
Cast End Cap UCI501

**UA 7091**

FIXING BLOCK  
kg/m 0.732 P 108  
OAD 35.6 x 12

**UA 10414**

20mm BALUSTER INFILL  
kg/m 0.333 P 173  
OAD 35.85 x 20

**UA 10415**

100mm BALUSTER SPACER  
kg/m 0.192 P 111  
OAD 20 x 18

**UA 10423**

HEAVY DUTY RAIL  
kg/m 0.697 P 263  
OAD 45 x 40

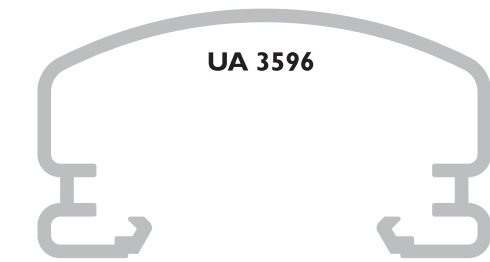
**UA 10424**

FLUSH INFILL  
kg/m 0.186 P 102  
OAD 40 x 5.85

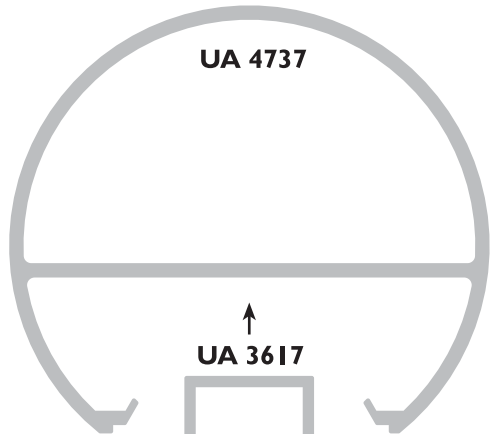


DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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P = EXT PERIPHERY

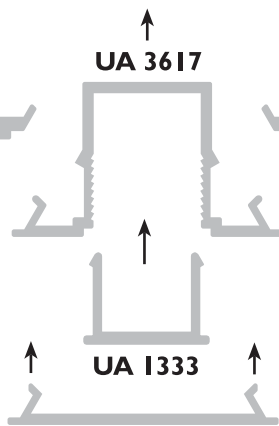
© ULLRICH ALUMINIUM CO LTD



UA 3596



UA 4737



UA 3617



UA 1333

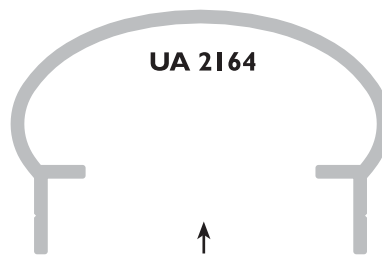
UA 3595



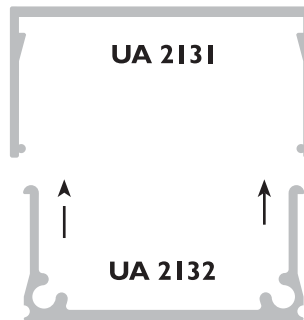
UA 3597



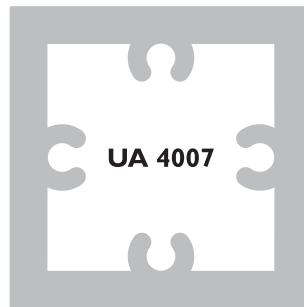
UA 6585



UA 2164

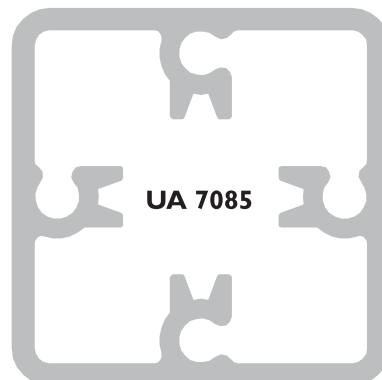


UA 2131



UA 4007

UA 10444



UA 7085

**UA 1333**

POCKET CAP  
kg/m 0.121 P 78  
OAD 16.5 x 12

**UA 2131**

RAIL CHANNEL  
kg/m 0.286 P 161  
OAD 40 x 20

**UA 2132**

RAIL INSERT  
kg/m 0.302 P 155  
OAD 37 x 17.9

**UA 2164**

HANDRAIL  
kg/m 0.465 P 219  
OAD 50 x 32.12  
Cast End Cap UCI995

**UA 3595**

FLUSH CAP  
kg/m 0.165 P 92  
OAD 35.85 x 5.5

**UA 3596**

HANDRAIL  
kg/m 0.782 P 324  
OAD 60 x 33  
Cast End Cap UCI994

**UA 3597**

BALUSTER  
kg/m 0.418 P 100  
OAD 25 x 25

**UA 3617**

GLAZING INSERT  
kg/m 0.313 P 172  
OAD 35.85 x 20

**UA 4007**

POST  
kg/m 2.165 P 160  
OAD 40 x 40

**UA 4737**

HANDRAIL  
kg/m 1.137 P 284  
OAD 63.5 x 56.57

**UA 6585**

POST  
kg/m 4.496 P 200  
OAD 60 x 40

**UA 10444**

POST SPIGOT fits 4007, 7085  
kg/m 1.626 P 151  
OAD 29.8 x 29.8

**UA 7085**

POST  
kg/m 2.128 P 192  
OAD 50 x 50

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**UA 2096**  
HANDRAIL CHANNEL  
kg/m 0.392 P 187  
OAD 38 x 25.4

**UA 2097**  
CHANNEL LID  
kg/m 0.161 P 82  
OAD 35 x 4

**UA 2098**  
HANDRAIL  
kg/m 0.543 P 233  
OAD 50 x 40.95  
Cast End Cap UC1987

**UA 2099**  
GLAZING CHANNEL  
kg/m 0.555 P 265  
OAD 38 x 25.4

**UA 2102**  
GLAZING BAR  
kg/m 0.373 P 189  
OAD 34.75 x 24.5

**UA 2103**  
GLAZING BEAD  
kg/m 0.121 P 86  
OAD 15 x 11.58

**UA 2487**  
POST  
kg/m 1.482 P 140  
OAD 35 x 35

**UA 3347**  
HANDRAIL BASE  
kg/m 1.144 P 275  
OAD 113.22 x 10

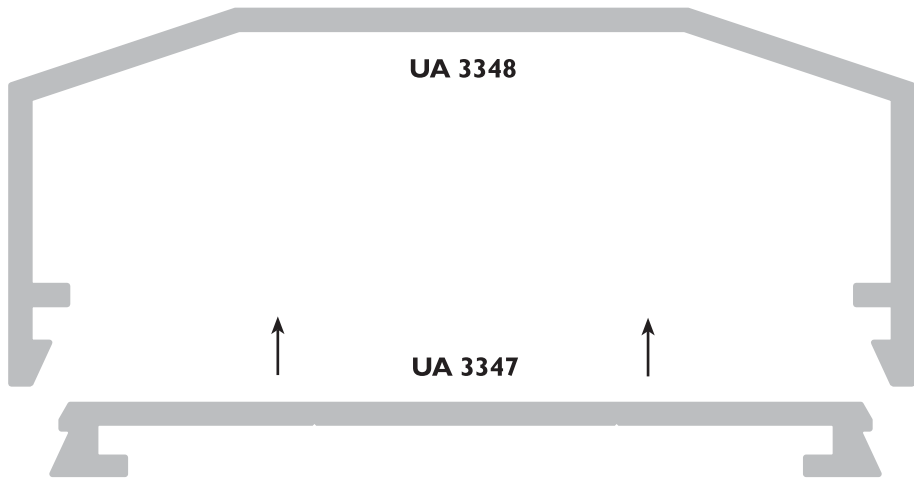
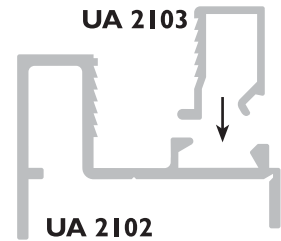
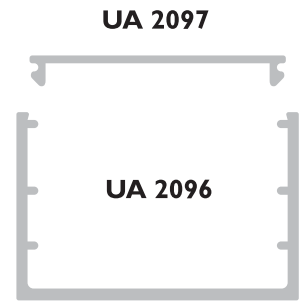
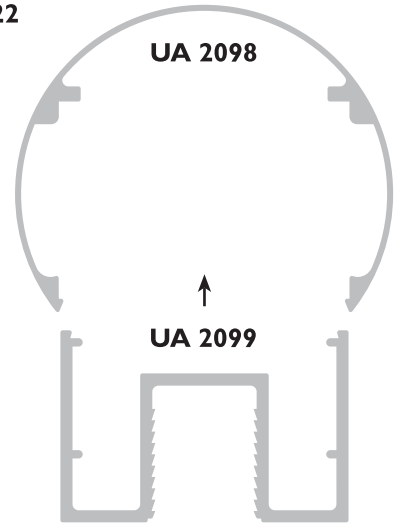
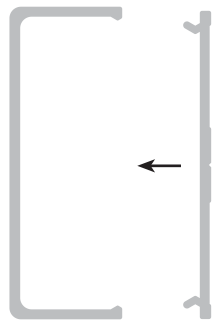
**UA 3348**  
HIGHWAY HANDRAIL  
kg/m 1.729 P 428  
OAD 120 x 50

**UA 3349**  
RAILING fits 3347  
kg/m 0.636 P 116  
OAD 50 x 25

**UA 4134**  
CHANNEL LID  
kg/m 0.163 P 94  
OAD 40.75 x 3.5

**UA 6395**  
CHANNEL  
kg/m 0.250 P 136  
OAD 40.75 x 14.7

**UA 6395 UA 4134 UA 10422 UA 10422**



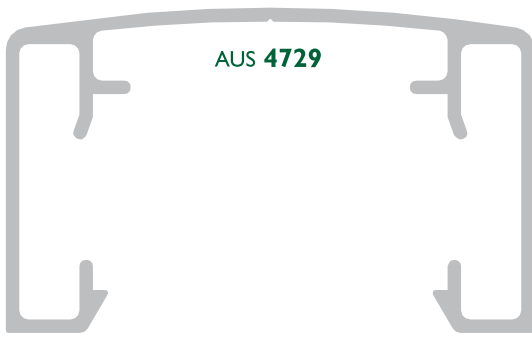
**UA 10422**  
FEMALE HINGE  
kg/m 4.828 P 637  
OAD 150.4 x 11.6

**UA 10422**  
MALE HINGE  
kg/m 4.828 P 637  
OAD 150 x 6

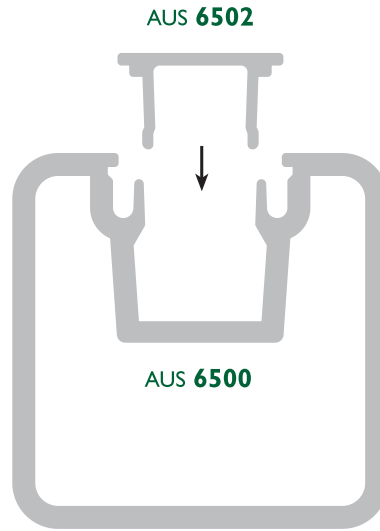


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AUS 4729



AUS 6502

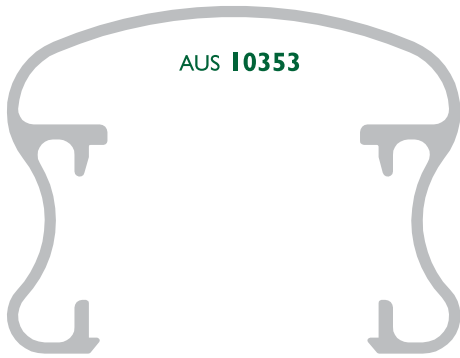
AUS 6500

**AUS 4729**  
HANDRAIL  
kg/m 1.126 P 433  
OAD 70 x 43

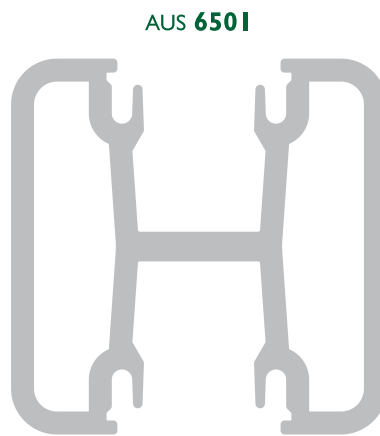
**AUS 5115**  
HANDRAIL  
kg/m 0.517 P 234  
OAD 57 x 34

**AUS 5566**  
POST BASE  
kg/m 11.491 P 460  
OAD 110.3 x 110

**AUS 6461**  
RAILING  
kg/m 0.776 P 192  
OAD 75 x 16



AUS 10353

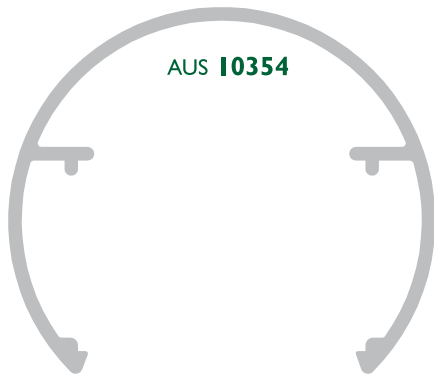


AUS 6501

**AUS 6500**  
GLAZING POST  
kg/m 1.718 P 259  
OAD 50 x 50

**AUS 6501**  
GLAZING POST  
kg/m 2.000 P 329  
OAD 50 x 50

**AUS 6502**  
GLAZING POST CAP  
kg/m 0.168 P 88  
OAD 21.7 x 12.5



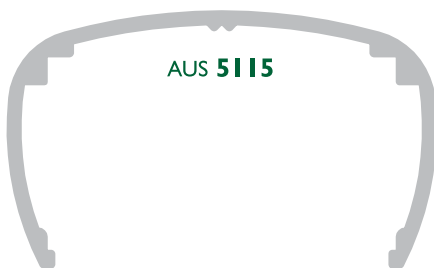
AUS 10354

AUS 6461



**AUS 8214**  
HANDRAIL  
kg/m 0.287 P 180  
OAD 36 x 22.05

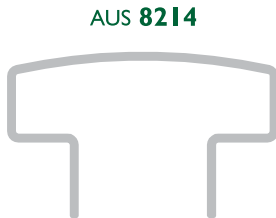
**AUS 8233**  
HANDRAIL  
kg/m 0.285 P 178  
OAD 36 x 20



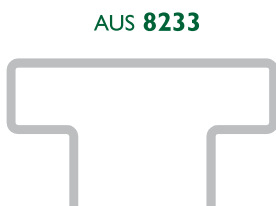
AUS 5115

**AUS 10353**  
LADY WAIST HANDRAIL  
kg/m 0.896 P 386  
OAD 60 x 46

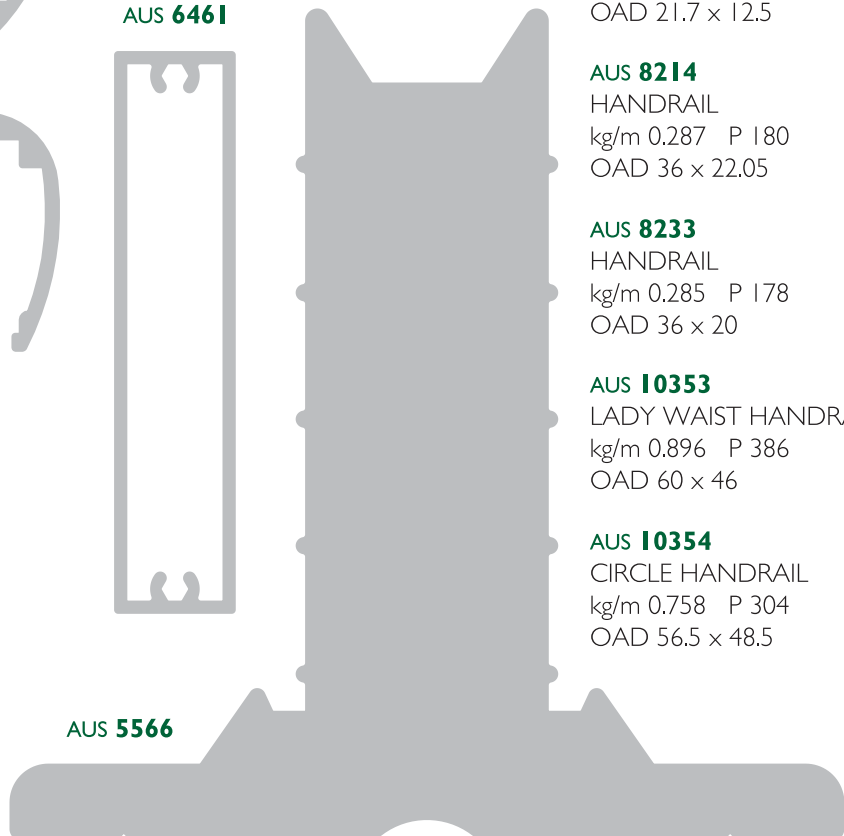
**AUS 10354**  
CIRCLE HANDRAIL  
kg/m 0.758 P 304  
OAD 56.5 x 48.5



AUS 8214



AUS 8233



AUS 5566

**UA 1212**

POST / RAIL  
kg/m 0.807 P 156  
OAD 40 x 40

**UA 3178**

POST / RAIL  
kg/m 1.488 P 194  
OAD 50 x 50

**UA 5949**

18mm CAPPING  
kg/m 0.235 P 119  
OAD 21.6 x 20

**UA 6856**

FENCE PANEL  
kg/m 1.161 P 259  
OAD 115 x 17

**UA 6857**

TONGUE & GROOVE PLANK  
kg/m 1.099 P 330  
OAD 106.8 x 17

**UA 7613**

FENCE PANEL  
kg/m 0.647 P 149  
OAD 60 x 17

**UA 7654**

FENCE RAIL CHANNEL  
kg/m 0.546 P 181  
OAD 40 x 20

**UA 7655**

FENCE RAIL LID  
kg/m 0.170 P 84  
OAD 33.19 x 5.2

**UA 7656**

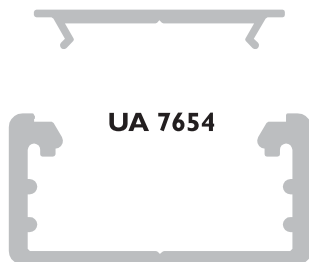
FENCE PAILING  
kg/m 0.301 P 77  
OAD 20 x 20

**UA 7657**

FENCE PAILING  
kg/m 0.251 P 63  
OAD 20 x 20

**UA 7694**

FENCE PANEL  
kg/m 1.253 P 279  
OAD 125 x 17

**UA 7655****UA 6856****UA 7694****UA 6857****UA 7613****UA 7657****UA 5949****UA 1535****MOUNTING ANGLE**

Bracket for: UA 7654  
Cut length: 32mm  
Code: BALUST1535STK

**UA 7656****UA 2244****MOUNTING CHANNEL**

Bracket for: UA 7654  
Cut length: 12mm  
Code: BALUST2244STK

**UA 1212****UA 3178**

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UA 6394



UA 1855



UA 6393



UA 6397



UA 1225

RAILING TUBE  
kg/m 0.192 P 63  
OAD 20 x 20

UA 1855

FENCE SLAT  
kg/m 0.480 P 112  
OAD 50 x 10

UA 2131

RAIL CHANNEL  
kg/m 0.286 P 161  
OAD 40 x 20

UA 2132

RAIL INSERT  
kg/m 0.302 P 155  
OAD 37 x 17.9

UA 2820

FENCE RAIL LID  
kg/m 0.120 P 75  
OAD 26.2 x 6.2

UA 2821

RAILING  
kg/m 0.178 P 59  
OAD 19 x 16

UA 2822

FENCE RAIL  
kg/m 0.381 P 229  
OAD 34 x 26.2

UA 3616

RAIL CHANNEL  
kg/m 0.536 P 183  
OAD 40 x 25

UA 5489

RHS RAILING  
kg/m 0.483 P 117  
OAD 40 x 20

UA 6393

FENCE SLAT  
kg/m 0.686 P 192  
OAD 90 x 10

UA 6394

FENCE SLAT  
kg/m 0.368 P 102  
OAD 45 x 10

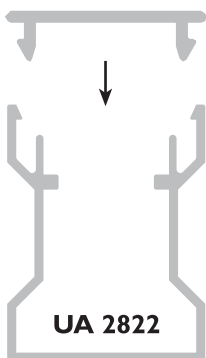
UA 6397

10mm SLAT INSERT  
kg/m 0.314 P 165  
OAD 35.85 x 20

UA 2821



UA 2820

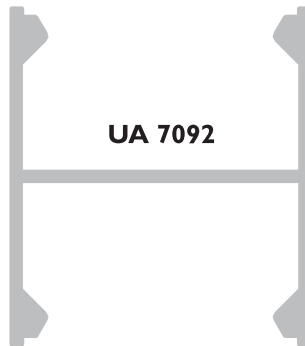


UA 2822

UA 3616



UA 7092



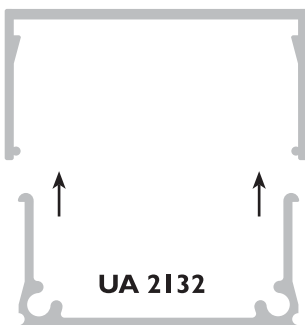
UA 1225



UA 5489



UA 2131



UA 2132

UA 6859



UA 7092

RAIL CHANNEL  
kg/m 0.774 P 270  
OAD 45 x 40

UA 6859

SLIDING GATE TRACK  
kg/m 0.798 P 149  
OAD 50.2 x 18

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**AUS 6506**

FENCE SLAT 1.2mm  
kg/m 0.496 P 157  
OAD 65 x 16

**AUS 6507**

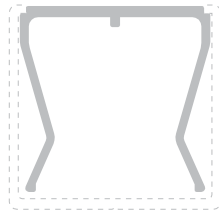
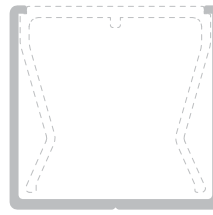
FENCE SLAT 1.4mm  
kg/m 0.576 P 157  
OAD 65 x 16

**AUS 10615**

SLAT CHANNEL  
kg/m 0.276 P 164  
OAD 28 x 27

**AUS 10616**

SLAT INFILL Punched  
kg/m 0.250 P 151  
OAD 24.6 x 23.8  
Punched for AUS 6506, 6507

**AUS 10616****AUS 10615****AUS 6506****AUS 6507**

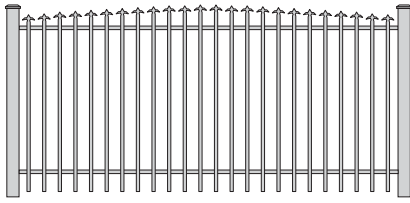
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED, DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

**OAD** = OVERALL DIMENSIONS  
**P** = EXT PERIPHERY

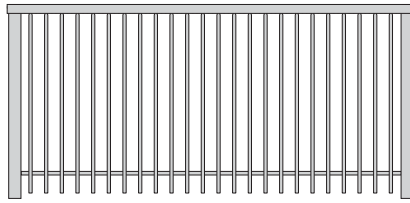
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FENCE STYLES

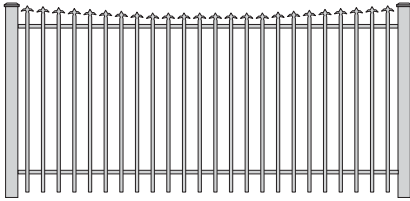
F5



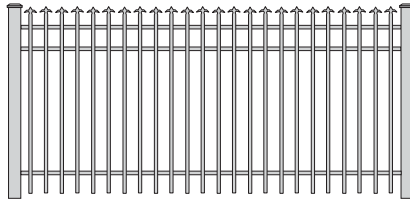
F1



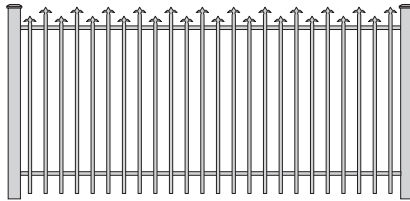
F6



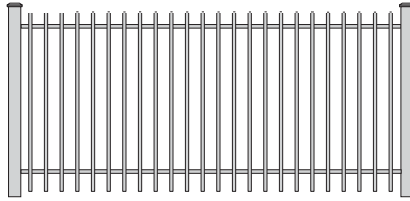
F2



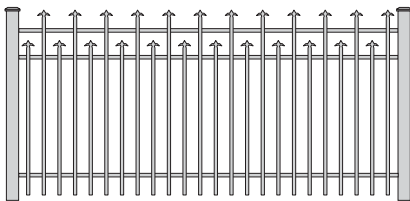
F7



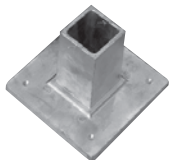
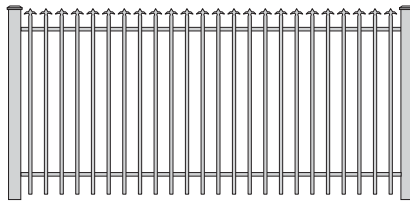
F3



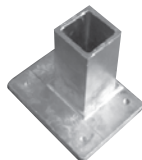
F8



F4



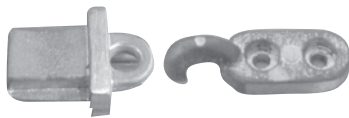
**UC 1981**  
Fence Post Base Full



**UC 1982**  
Fence Post Base 3/4



**UC 1983**  
Fence Post Base 1/2



**UC 1939 UC 1938**  
Fence Flexi Bracket  
( Female and Male )



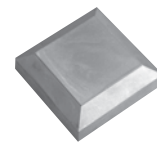
**UC 1963**  
1/2 Modular Bracket



**UC 1942**  
Modular Bracket



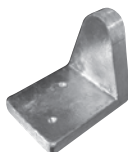
**UAF 05**  
Button Top



**UC 1943, 1944, 1940**  
Fence Cap  
50mm, 75mm, 100mm



**UC 1948**  
Small Gate Hinge Blank



**UC 1948A**  
Gate Hinge Round Hole



**UC 1947**  
Gate Hinge Slotted

FENCE PANELS

Box rail	40mm x 20mm
	40mm x 40mm
Uprights	20mm tube
Length	Any up to 2.5 m
Height	Any up to 1.8 m
Caps	Spear / Football / Button

FENCE POSTS

Box post	50mm x 50mm
Over 1.2 m	75mm x 75mm
Gate post	100mm x 100mm
Capping	Flat Cap

FIXINGS

Brackets	Standard module Masonry module Flexi module
Posts	Post foot

GATES

Custom fabricated in the colour and decorative design of your choice.

CAPS

A range of decorative cappings for fences and gates is available.



**UC 1984**  
Football

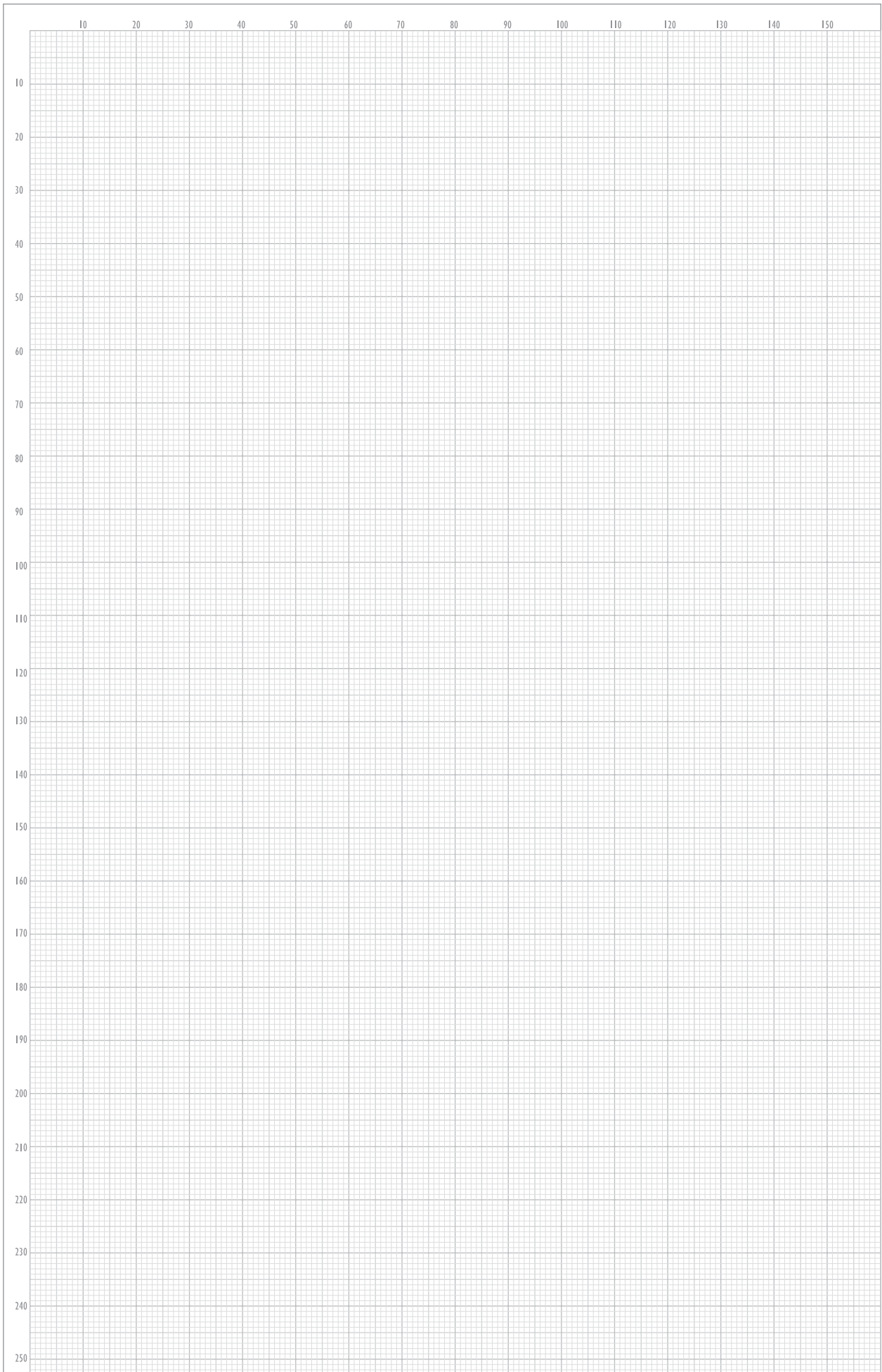


**UC 1941**  
Spear

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<b>DIE No</b>	<b>DESCRIPTION</b>
<b>UA 1371</b>	<b>FRAME 20mm</b>
<b>UA 1372</b>	<b>FLANGED FRAME 20mm</b>
<b>UA 1641</b>	<b>FLANGED FRAME 25mm</b>
<b>UA 1642</b>	<b>FRAME 25mm</b>

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**UA 1371**

FRAME 20mm  
kg/m 0,283 P 76  
OAD 19 x 19

**UA 1372**

FLANGED FRAME 20mm  
kg/m 0,318 P 93  
OAD 27,5 x 19

**UA 1641**

FLANGED FRAME 25mm  
kg/m 0,343 P 114  
OAD 31,9 x 25,4

**UA 1642**

FRAME 25mm  
kg/m 0,313 P 102  
OAD 25,4 x 25,4

**Description**

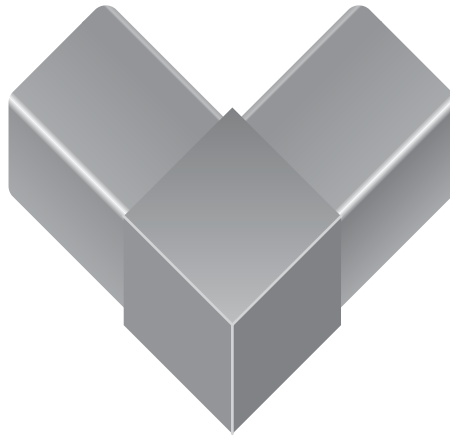
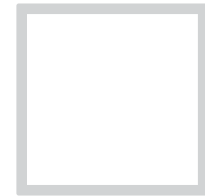
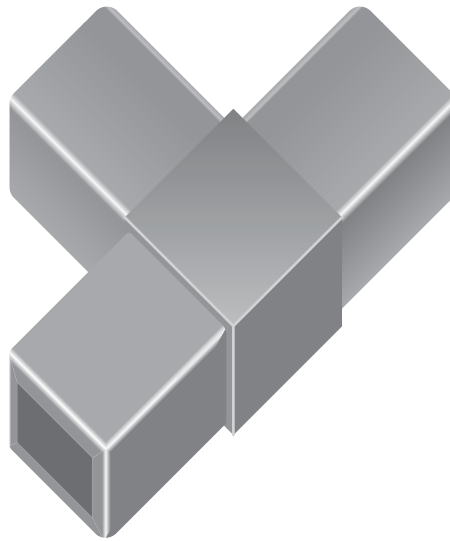
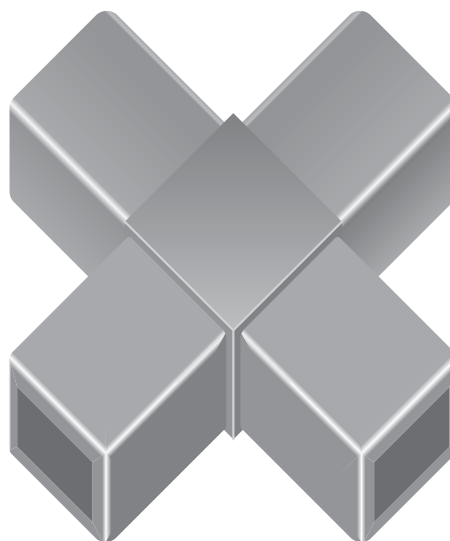
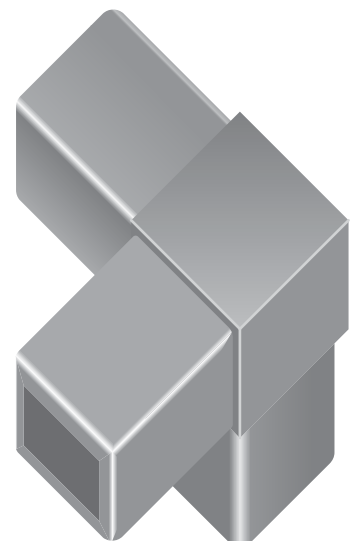
The Ullrich Modular Design System uses a tube-and-jointer construction for DIY shelving, storage, desking and display.

Using a rubber mallet, the system can be assembled in minutes, ready for shelving and panelling of your choice.

The finished units are sturdy yet lightweight, can be disassembled for storage or transit, and can be rearranged or extended for changing circumstances.

Your choice of 20mm or 25mm profile can be powder-coated in your choice of colour. Jointer components are standardly available in black or white.

See the Modular Design System brochure for more details.

**2 WAY CORNER JOINTER****UA 1641****UA 1642****3 WAY T SHAPE JOINTER****UA 1371****UA 1372****4 WAY X SHAPE JOINTER****3 WAY Y SHAPE CORNER JOINTER**

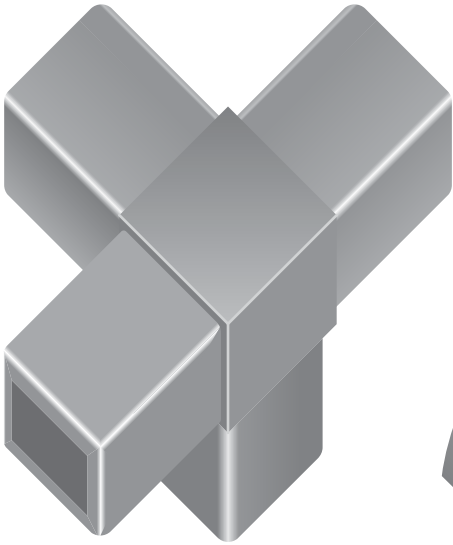
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**OAD** = OVERALL DIMENSIONS

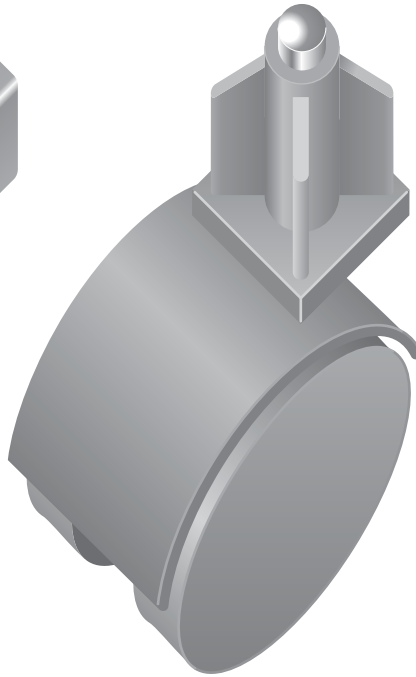
**P** = EXT PERIPHERY

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4 WAYY SHAPE JOINTER

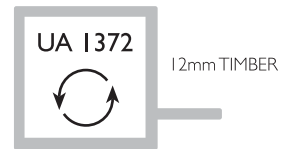
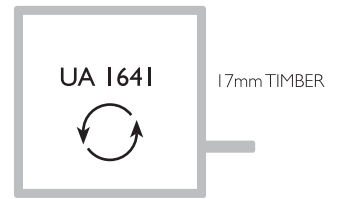
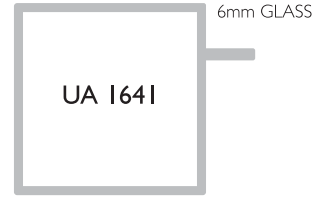


CASTOR



Panelling Options

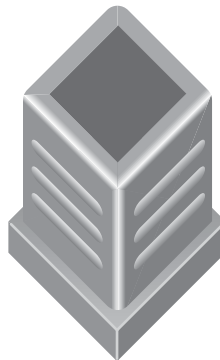
25mm flanged tube is designed to accept 17mm timber or 6mm glass, and 20mm flanged tube accepts 12mm timber or 5mm glass.



5 WAY JOINTER



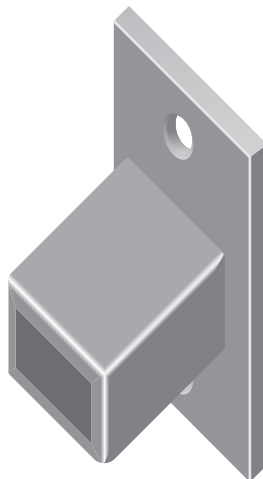
END CAP



6 WAY JOINTER



MOUNTING BRACKET



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**Preliminary planning**

To simplify planning and assembly, minimise the number of different tube lengths for your construction to as few as possible.

Only four standard tube lengths are needed as the basis for many different types of construction.

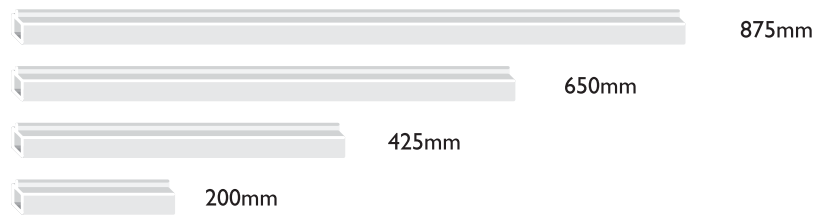
In assembly, these modules conform to accepted ergonomic work-height standards for desks and benches, and generally cater for typical dimensions of home appliances, computers, office files and books.

Here, jointed selections of shorter modules combine in many different ways to equal the lengths of jointed longer tube modules. This offers multi-strata design flexibility, vertically and horizontally, to customise storage or workspace for maximum efficiency and economy, while ensuring even finished widths and heights in the assembled unit no matter how varied the internal construction.

This facilitates customised construction, for example, various sized filing compartments above or below a wider desktop, or construction of shelves of various widths, depths and heights to suit different sizes of books, displays or audio-video appliances in a wall unit.

Vertical panelling and hinged or sliding doors can be incorporated into any Modular Design System construction.

**A multitude of designs from only four tube lengths (example)**



**How the tube modules work together for furniture that fits**



One 875mm module (with any two jointers) is equal to:



One 650mm module and one 200mm module (with any three jointers)



Two 425mm modules (with any three jointers)

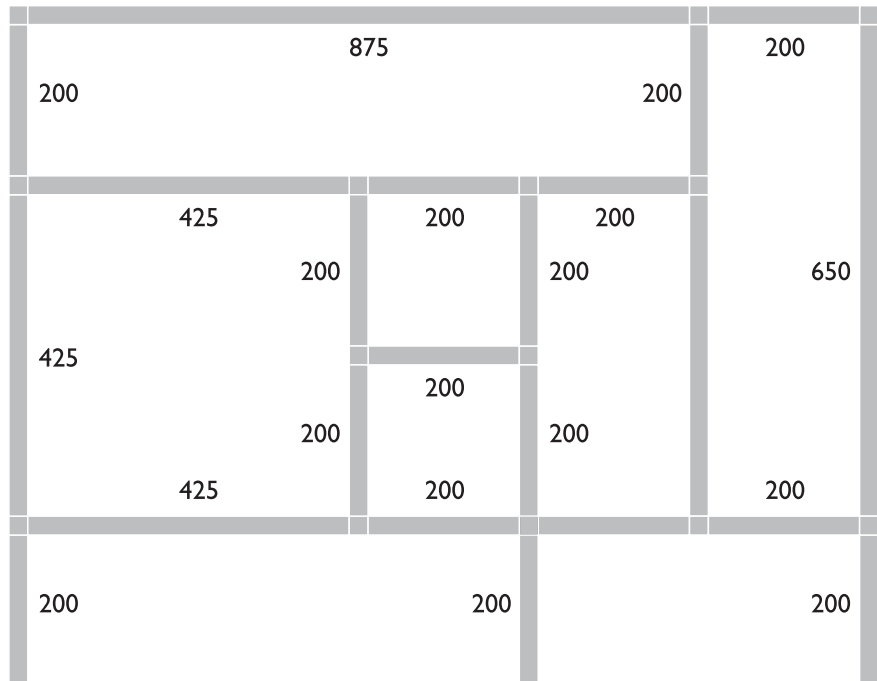


One 425mm module and two 200mm modules (with any four jointers)



Four 200mm modules (with any five jointers)

**Modular construction offers flush-fitting furniture with multiple storage options**



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<b>DIE No</b>	<b>DESCRIPTION</b>
<b>UA 2246</b>	<b>PALLET BEARER</b>
<b>UA 2247</b>	<b>PALLET DECK</b>
<b>UA 2435</b>	<b>PALLET BEARER</b>
<b>UA 2436</b>	<b>PALLET DECK</b>

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**UA 2246**

PALLET BEARER ( Cargon )  
 kg/m 5,461 P 620  
 OAD 127 x 85

**UA 2247**

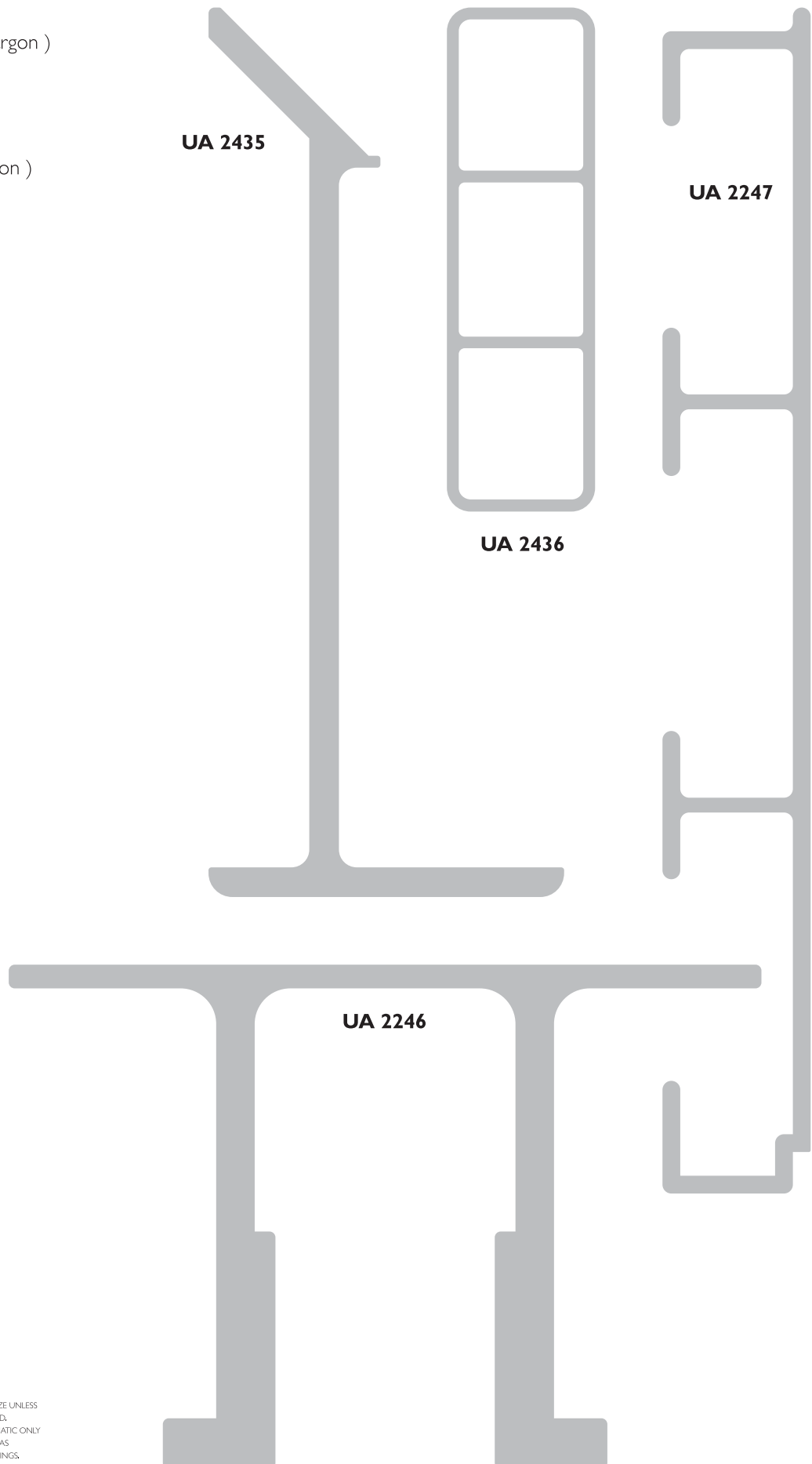
PALLET DECK ( Cargon )  
 kg/m 2,844 P 704  
 OAD 200 x 25

**UA 2435**

PALLET BEARER  
 kg/m 2,918 P 435  
 OAD 150 x 60

**UA 2436**

PALLET DECK  
 kg/m 1,348 P 214  
 OAD 85 x 25



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**DIE No      DESCRIPTION****STORM SHUTTER**

<b>UA 1055</b>	<b>WEDGE PIN</b>
<b>UA 1056</b>	<b>TOP CHANNEL</b>
<b>UA 1057</b>	<b>BOTTOM CHANNEL</b>

**ACCORDION STORM SHUTTER**

<b>UA 2916</b>	<b>STRIKE</b>
<b>UA 2917</b>	<b>LOCK</b>
<b>UA 2918</b>	<b>GUIDE</b>
<b>UA 2919</b>	<b>CHANNEL</b>
<b>UA 2920</b>	<b>WHEEL GUIDE</b>
<b>UA 2921</b>	<b>SHUTTER SLAT</b>
<b>UA 2922</b>	<b>SHUTTER END</b>

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**UA I055**

WEDGE PIN  
 kg/m 3.410 P 221  
 OAD 95 x 22

**UA I056**

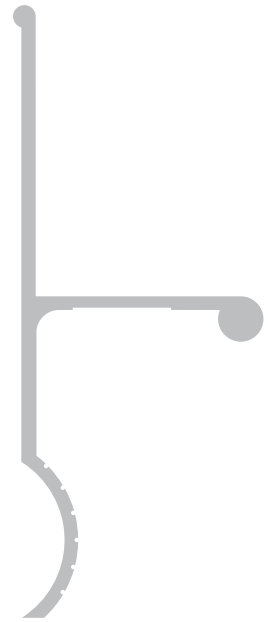
TOP CHANNEL  
 kg/m 0.811 P 315  
 OAD 70 x 49

**UA I057**

BOTTOM CHANNEL  
 kg/m 0.626 P 244  
 OAD 81 x 32

**ASSEMBLY DETAILS**

Refer: 24-3

**UA I055****UA I056****UA I057**

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UA 2918



**UA 2916**

STRIKE

kg/m 0.899 P 423  
OAD 89.72 x 53.65

UA 2919

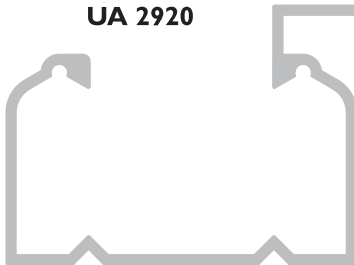


**UA 2917**

LOCK

kg/m 1.040 P 489  
OAD 114.33 x 55.4

UA 2920



**UA 2918**

GUIDE

kg/m 0.806 P 400  
OAD 80 x 40

UA 2922



**UA 2919**

CHANNEL

kg/m 0.606 P 302  
OAD 83.3 x 41.5

**UA 2920**

WHEEL GUIDE

kg/m 0.752 P 360  
OAD 80 x 34.5

UA 2921



**UA 2921**

SHUTTER SLAT

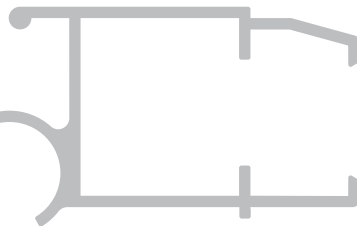
kg/m 0.512 P 255  
OAD 104.37 x 12.37

**UA 2922**

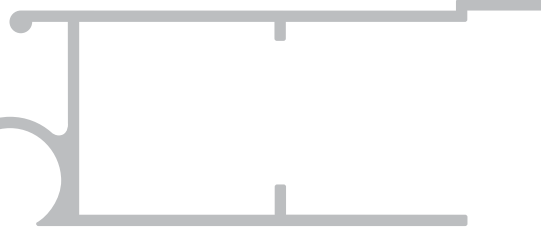
SHUTTER END

kg/m 0.441 P 214  
OAD 69.29 x 29.49

UA 2916

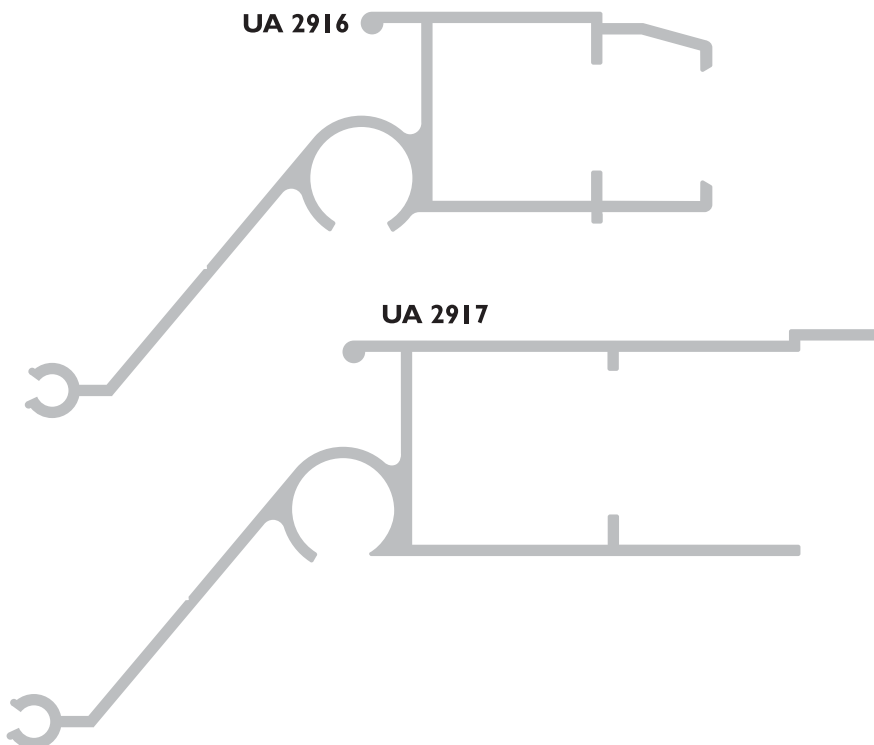


UA 2917



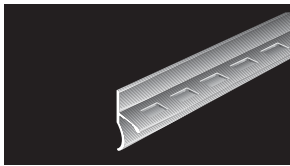
**ASSEMBLY DETAILS**

Refer: 24-3



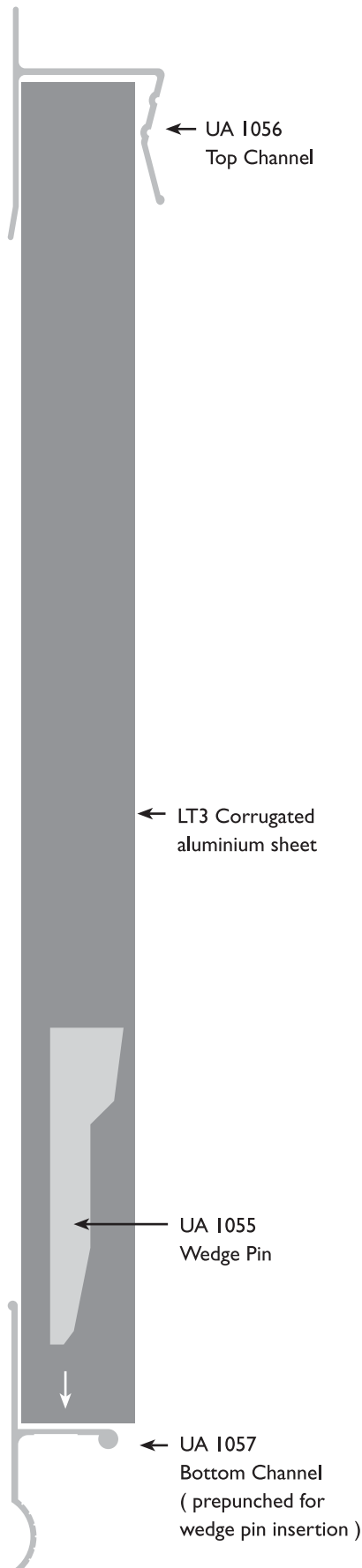
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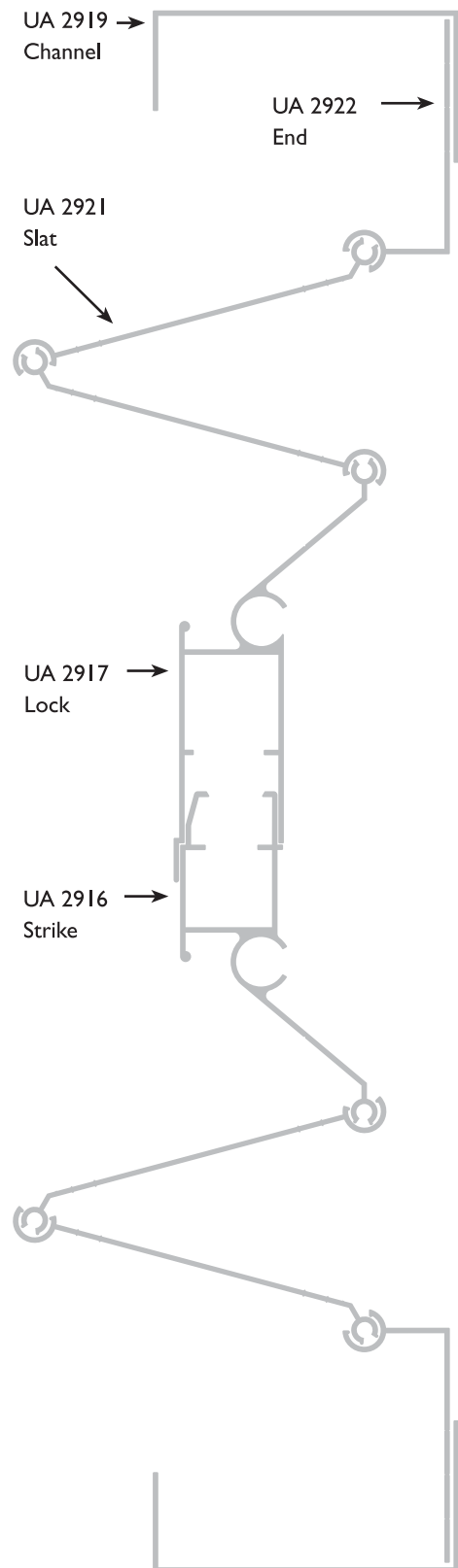


**Above from top**  
Storm Shutter  
UA 1057 prepunching detail  
Accordion Storm Shutter

**STORM SHUTTER ASSEMBLY: side view, scale 1:2**



**ACCORDION STORM SHUTTER ASSEMBLY: plan view, scale 1:2**



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**EXTRUSION TERMINOLOGY**  
**PROPERTIES OF ALUMINIUM**  
**COMPARATIVE CHARACTERISTICS AND APPLICATIONS**  
**TOLERANCES AND MECHANICAL PROPERTY LIMITS**  
**THE STORY OF ALUMINIUM**  
**CONVERSION TO COMPLETION**  
**HANDLING AND STORAGE**  
**TREATMENTS AND SURFACE FINISHES**  
**CLEANING ALUMINIUM SURFACES**  
**THE EXTRUSION PROCESS**  
**LINEAR CONVERSION TABLES**

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<b>Standard shape</b>	Extrusions that are available to all customers.
<b>Exclusive shape</b>	Extrusions manufactured to client design and produced for their exclusive use. These are not published in this catalogue.
<b>Standard</b>	Alloys, tempers, dimensions and services always available and acceptable for production without further reference.
<b>Non-standard</b>	Alloys, tempers, dimensions and services which are outside normal availability and always the subject of special inquiry.
<b>Section drawings</b>	Profile outline drawings prepared for every extruded shape. Each one is identified by a die number ( eg: UA 1234 ).
<b>Visible face</b>	In a finished construction, the visible surface of any extrusion.
<b>External periphery</b>	The measurement used in computing the price for surface finishes on hollow shapes in which the external perimeter only is measured, and the internal void excluded.
<b>Total periphery</b>	The total distance around the extruded shape, including internal void surfaces.
<b>Factor</b>	Result of dividing total perimeter ( internal and external for hollow shapes ) of the section in mm by weight in kg/m.
<b>Circumscribing circle</b>	Minimum circle inside which extruded shapes fit precisely.
<b>Thickness ratio</b>	Optimum desirable ratio of variation of metal thickness in any extruded shape.
<b>Rod</b>	Solid round section 10 mm or greater in diameter whose length is greater in relation to its diameter.
<b>Bar</b>	Solid section, long in relation to its cross-sectional dimensions, with a symmetrical square, rectangular, hexagonal or octagonal cross-section ( excluding flattened wire ) with sharp or rounded corners or edges and whose width or greatest distance between parallel faces is 10 mm or greater.
<b>Solid shape</b>	Extruded shape whose geometry does not form a void and which is long in relation to its cross-sectional dimensions.
<b>Hollow shape</b>	Single enclosed void with width-to-depth ratio not less than 5:1. Wall thickness uniform except for radiused corners.
<b>Semi-hollow shape</b>	Solid shape with a cross-section that partially encloses a void, in which the area of the void is substantially greater than the square of the width of the gap, otherwise classified hollow as follows:

**Gap dimensions (mm) Ratio area-to-gap over which shape is classified hollow**

Over	Up to	
6.0		4.0
3.0	6.0	3.0
1.5	3.0	2.5
1.5	2.0	

Hollow and semi-hollow manufacturing methods offer no undertaking for placement or homogenous nature of weldlines unless agreed prior to placement of order.



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**1. Weight**

The specific gravity of aluminium is 2.7, about one-third that of iron (7.9) and copper (8.9). The weight to strength ratio of aluminium makes it an ideal construction material for the transport industry – air, sea, road and rail – where its light weight contributes to energy saving, increased load capacity and speed. Aluminium is also used in large-scale construction of high-rise buildings, power transmission cables and towers.

**2. Corrosion resistance**

When aluminium is exposed to air, a thin oxidised film forms on the surface, which helps to protect the metal from further corrosion. Anodising treatment enhances corrosion resistance, and is used in building construction, joinery, household appliances and utensils.

**3. Machinability**

Aluminium can be easily fabricated into cast or forged shapes, foil, sheet, rod, tube and wire. It also displays excellent machinability and plasticity in bending, cutting and drawing. Aluminium is considered to be the best material for complex-sectioned hollow extrusion.

**4. Strength**

The tensile strength of pure aluminium is not high, but depending upon the alloy or temper, a strength of up to 60 kg/mm<sup>2</sup> can be achieved. You can choose the alloy with the most suitable strength characteristics you need according to your application. Some alloys are stronger than ordinary steel or even equal to special ( alloy and treated ) steels in tensile strength. While steel becomes brittle at low temperatures, aluminium increases in tensile strength. Because of its low modulus of elasticity, aluminium absorbs impact, and is used in potentially high-impact applications such as automobile bumpers.

**5. Expansion**

Aluminium extrusions have a comparatively high coefficient of expansion which is 0.00023mm per mm length of extrusion per °C. A length of aluminium extrusion 6m long will expand over 4mm when the temperature rises 30° C. When designing, especially building design, provision should be made for expansion and contraction caused by temperature changes. Thermal expansion is particularly important where aluminium extrusions are used with other materials having different expansion rates.

**6. Surface enhancement**

Aluminium can be thermoset powdercoated or electrochemically anodised surface-treated for enhanced protection and appearance. A wide range of colours are available. Aluminium is thus widely used for interior and exterior cladding of buildings and vehicles, and the fabrication of household and commercial appliances.

**7. Electrical conduction**

The electrical conductivity of aluminium is approximately 60% of copper yet about one-third the weight. Aluminium is a very economical material as an electrical conductor and is widely used in power-transmission cables, bases of electric bulbs and other electrical applications.

**8. Heat conduction**

Aluminium is about three times as thermo-conductive as steel. It is used for cooking utensils, air-conditioners, industrial heat exchangers, automobile engine parts and solar energy collectors.

**9. Magnetic sensitivity**

Aluminium is non-magnetic and is used where the use of magnetic metals would be detrimental to equipment performance, such as in the construction of compasses, parabolic antennae, computer disks and other magnetically driven applications.

**10. Reflectivity**

The surface of uncoated aluminium is highly reflective of light, radiant heat and electronic waves – the purer the metal, the more so. This feature is utilised in mirrors and reflectors for stoves, infrared dryers, lighting equipment, light-wave-guides and in building temperature control.

**11. Recyclability**

Owing to its low melting temperature, aluminium is economically recyclable, requiring only about 3.5% of the energy required for smelting. Use of recycled aluminium has benefits for all concerned with conservation of energy and natural resources.

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Alloy	Characteristics	Available Forms	Applications
<b>1350</b>	Commercially pure, very ductile in extruded condition. Excellent resistance to corrosion. Excellent electrical conductivity	Simple shapes	Mouldings, lightly stressed and decorative assemblies in architecture and transport, chemical, food and brewing equipment, heat exchangers
<b>6060</b>	Suitable for intricate sections of light and medium strength. Forms well in T4 temper. High corrosion resistance, good surface finish, anodises well	All shapes, tubing and rod	Architectural extrusions such as glazing bars, window frames and general purpose extrusions
<b>6106</b>	Light structural alloy. Designed to provide optimum mechanical properties, complexity of shape, minimum section thickness and good surface finish. Good corrosion resistance, weldability and formability	Thinner structural shapes, rod, bar and tubing	Light structural applications, where surface finish is important. Marine, Transport applications
<b>6005A</b>	Medium structural alloy. Good extrusion characteristics with good surface finish.	Structural shapes of all types, rod, bar and tube, offered in T5 temper	Medium structural applications, where surface finish is important. Marine, Transport applications
<b>6261</b>	Special purpose structural alloy. Good surface finish and corrosion resistance. Good formability in T4 temper. Good weldability.	Structural shapes of all types, rod, bar and tube, offered in T6 temper	Structural applications where surface finish is important. Marine, Transport applications
<b>6082</b>	Recommended alloy for structural purposes. Good strength and general corrosion resistance. Good weldability.	Structural shapes of all types, rod, bar and tube, offered in T6 temper	Vehicles, bridges, roof trusses and general structural applications
<b>2011</b>	Free machining alloy of medium strength, giving fragmented chips. Not suitable for anodising or welding.	Rod	Automatic lathe products, suitable for high speed repetitive machining

### Description of Tempers

<b>F</b>	Extrusions as fabricated
<b>O</b>	Extrusions annealed
<b>T1</b>	Cooled from elevated temperature then naturally aged
<b>T4</b>	Solution heat treated then naturally aged
<b>T5</b>	Cooled from elevated temperature then artificially aged
<b>T6</b>	Solution heat treated then artificially aged



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**EXTRUSION TOLERANCES**

Applicable manufacturing tolerances are those set out by the Aluminium Development Council of Australia Ltd (ADCA) in **Aluminium Standards, Data and Design: Wrought Products** (First Edition 1994). Invariably, tolerances for an individual geometric shape are subject to negotiation and agreement between extruder and customer. Under this provision, the function of the shape in its specific application is given priority consideration. All manufacturing tolerances are subject to review from time to time.

**Dimension tolerances** (rounded down<sup>1</sup>)

Cross-sectional Metal dimension <sup>2</sup> mm	ADCA Tolerance mm
Up to 3	0.15
3 to 6	0.18
6 to 12	0.20
12 to 20	0.23
20 to 25	0.25
25 to 40	0.31
40 to 50	0.36
50 to 100	0.61
100 to 150	0.86
150 to 200	1.12
200 to 250	1.37

1. Dimensional tolerances are rounded down to the nearest 0.05mm because all calipers used to measure metal dimensions are almost universally graduated at intervals of 0.05mm
2. Metal dimensions refer to solid metal dimensions or any measurement unbroken by a gap or void. For tolerances across gaps or voids refer to ADCA Standards.

**MECHANICAL PROPERTY LIMITS - EXTRUDED PRODUCTS**

Alloy - Temper	Thickness <sup>1</sup> ( mm )		Tensile Strength ( MPa )		
	Over	Up to	Ultimate minimum	Yield minimum	Elongation <sup>2,3</sup> % min in 50mm or 5.65X-A
1350 – H112		All	60		23
6060 – T5		12.0	150	110	8
	12.0	25.0	145	105	6
6106 – T6		10.0	235	210	8
	10.0	25.0	205	170	8
	25.0	150.0	185	160	10
6005A – T5		All	260	240	8
6261 – T6		All	295	255	7
6082 – T6		20.0	295	255	7
	20.0	150.0	310	270	7

1. The thickness of the cross-section or wall thickness from which the tension specimen is taken determines the applicable mechanical properties.
2. For material of such dimensions that a standard test specimen cannot be taken, or for material thinner than 1.6mm the test for elongation is not required.
3. A = specimen cross-sectional area.
4. These yield strengths are not determined nor guaranteed unless specifically requested.

Source: *Aluminium Standards, Data and Design: Wrought Products (ADCA First Edition 1994)*

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

**USEFUL FORMULAE**

**Nominal mass ( kg/m<sup>2</sup> ) of Extruded Aluminium:**

Calculate cross-section area ( mm<sup>2</sup> ) and multiply by 0.00271

**Factor**

( Difficulty of Extrusion Factor )

Calculate the perimeter of the section ( for hollow sections, both outside and inside perimeters ) and divide the result by the nominal mass ( kg/m ) of the section.

**Weight of Billet**

Billet, 178mm diameter

1mm = 0.0666 Kg

Billet, 202mm diameter

1mm = 0.0875 Kg

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## DISCOVERY AND DEVELOPMENT

The art of pottery making was developed in northern Iraq about 5300 BC. The clay used for making the best pottery consisted largely of a hydrated silicate of aluminium. Certain other aluminium compounds known as **alums** were widely used by the Egyptians and Babylonians as early as 2000 BC in vegetable dyes, various chemical processes and for medicinal purposes. It was generally known as **metal of clay** and for thousands of years could not be separated by any known method from its link with other elements. As relatively late as 1782 the French chemist, Lavoisier, said it was the oxide of an unknown metal.

Aluminium, as we understand it, was isolated early in the 19th century, and is in historical terms a relatively recently discovered metal. Lavoisier's opinion was repeated by Sir Humphrey Davy in 1808. He gave it the more scientific sounding name **aluminium** (pronounced *aloominium*). His spelling is still used in North America but elsewhere in the world the spelling **aluminium**, following the suggestion of Henri Sainte-Clair Deville, is used. In 1809 Davy fused iron in contact with alumina in an electric arc to produce an iron-aluminium alloy. For a split second, before it joined with the iron, aluminium existed in its free metallic state for perhaps the first time since our planet was formed. In 1825 H C Oerstedt, a Dane, produced a tiny sample of aluminium in the laboratory by chemical means.

Twenty years later the German scientist, Frederick Wohler, produced aluminium lumps as big as pinheads. In 1854 Sainte-Clair Deville had made improvements to Wohler's method and produced aluminium globules the size of marbles. He was encouraged by Napoleon III to produce aluminium commercially and at the Paris exhibition in 1855 aluminium bars were exhibited next to the crown jewels. It was not until 31 years later however, that an economical way of commercial production was discovered.

On 23 February 1886, a 22-year-old American, Charles Martin Hall worked out the basic electrolytic process still in use today. Hall had begun his experiments while still a student at Oberlin College, Ohio. He achieved his success, after graduation, with home-made apparatus in the family woodshed. He separated aluminium from the oxygen with which it is chemically combined in nature by passing an electric current through a solution of cryolite and alumina.

Almost simultaneously, Paul L T Heroult arrived at the same process in France, although he did not initially recognise its importance in his work in development of aluminium as an alloy-only material. In 1888 the German chemist Karl Joseph Bayer was issued a German patent for an improved process for making Bayer aluminium oxide (alumina). The foundation of the aluminium age was complete. The Bayer, Hall and Heroult processes freed our planet's most plentiful and versatile structural element for widespread use.

## ORIGINS

Aluminium is a metallic element that comes from the ore **bauxite**. Aluminium is one of about 100 basic elements out of which the physical universe is built. In other words, it was created billions of years ago when the whirling clouds of hydrogen under constant pressure with electro-magnetic forces collided to form new elements. When Earth's mass cooled, aluminium mixed with water and oxygen to form the original matter from which bauxite is made. Bauxite is named after Les Baux, France, where it was discovered in 1821.

Converted to aluminium by modern processes, it becomes a light metal which can be given great strength by alloying with other metals. It is inherently corrosion-resistant, conducts heat and electricity, yet can be processed to reflect light and radiant energy. Aluminium is classified non-toxic. It is non-magnetic. It can be formed by all known metalworking processes. Its intrinsic properties make it able to be used in many circumstances where other materials would not be considered.



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**HOW ALUMINIUM IS MADE**

Bauxite is mined by various processes. Once mined it is finely crushed for refining and recovery of **alumina**, the base from which aluminium is made. The separation of the alumina from bauxite is a complicated process. This involves the use of a caustic soda solution heated under pressure to dissolve the alumina. Impurities are filtered out of the solution in the form of a mud-like material. The filtered solution is cooled and alumina is recovered by precipitation in a hydrate form. The resulting fine crystals are heated in long, revolving kilns to drive off the water of crystallisation.

The product is alumina in a white powder form. Aluminium metal is produced in large steel shells lined with carbon. These shells are known in the industry as **pots** and are arranged in long rows called **pot lines**. Alumina is mixed with cryolite in the pots and large quantities of electricity are introduced to reduce the alumina into aluminium and oxygen. The process is continuous and molten metal is siphoned from the pots at regular intervals.

**HOW ALUMINIUM IS TURNED INTO PRODUCTS**

Once aluminium is produced it can be made into forms ready for manufacturers to convert into finished products. Industries requiring aluminium may specify from a range of **alloys** and their metal can be supplied in the form of ingots, extruded shapes, rod, tube, bar, sheet, plate and foil.

One of the best known forms of aluminium is sheet, which has many applications. The process starts with special **alloy** ingots. These are pre-heated to rolling temperature, then fed into a hot mill with the ingot being passed back and forth through the mill. The process results in **plate**, with thinner sheet being formed by further passes between rolls under extreme pressure. It becomes longer and thinner in the direction in which the plate or sheet is moving.

Perhaps the most remarkable of all sheet forms is foil, which is aluminium metal that has been rolled very thin so that it is pliable yet strong. Aluminium foil is widely used in kitchens and food packaging.

Aluminium extrusions have been used commercially for many years. The process involves a heated **billet** being pushed under extreme pressure through a die, the metal taking the shape of the holes in the die. Extrusions are mostly used to reduce the weight or number of parts in an assembly, or to achieve shapes that cannot be produced satisfactorily any other way.

**THE USES OF ALUMINIUM**

The characteristics of aluminium combine to make aluminium a most versatile material for a host of applications.

Window frames	Kitchen utensils	Vehicle engines	Tanks and piping
Door frames	Kitchen whiteware	Aircraft engines	Tubing and ducting
Joinery fittings	Laundry whiteware	Outboard motors	Reflector panelling
Roofing	Air conditioners	Motor mowers	Armature windings
Gutters	Tubular furniture	Airframes and skins	Wiring and cabling
Spouting	Electrical fittings	Vehicle trim	Treadplate
Wall cladding	Light fittings	Truck canopies	Wall framing
Foil insulation	Household appliances	Coach bodies	Office furniture
Roller doors	Food containers	Railcar bodies	Office equipment
Insect screens	Wrapping foil	Caravan bodies	Decorative ceilings
Venetian blinds	Cans and closures	Boat hulls and trim	High-rise mullions
Awnings, louvres	Computer parts	Transport containers	Sign frames, panels
Fencing	Sports equipment	TV receiver aerials	Partition systems
Balustrading	Leisure furniture	Flag Poles	Security grills

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Aluminium is one of the easiest materials to keep in good condition. It has a high natural resistance to corrosive conditions normally encountered during shipment and storage, and a little care will maintain its original appearance for a long time. Generally, guard against conditions that may cause surface abrasion or water stains. Suppliers make every effort to pack aluminium so that traffic marks or rub marks do not occur during shipment and so that it remains dry. All incoming shipments should be inspected promptly however, since suppliers generally have a time limit in which damage claims will be honoured.

### TRAFFIC MARKS

**Appearance:** Scratches, surface abrasions, or a condition resembling cinders embedded in the metal. They result from mechanical abrasion and subsequent oxidation of the abraded areas, which is unsightly and has a detrimental effect on finishing operations.

**Prevention and treatment:** Suppliers usually pack metal so that it is not subjected to undue flexing or twisting and so that the units within a package do not rub against each other. Products subject to such damage are usually packed on skids or in timber boxes. Paper or cardboard may be used for cushioning thin or soft metal. Steel strapping is used to reinforce skids and boxes and to bind wrapped bundles. In storage, do not place aluminium with other metals. Use wood-faced shelving, racks and bins. Store away from caustics, nitrates, phosphates and acids. Use older stock first.

### WATER STAINS

**Appearance:** Non-metallic, usually whitish, perhaps iridescent depending upon the alloy or degree of oxidation. Caused by the entrapment of moisture between adjacent surfaces of closely-packed material. Purer aluminium alloys are more resistant to water stain, usually more pronounced on alloys with high magnesium content. It is a superficial condition and the mechanical properties of the metal are not affected.

**Prevention and treatment:** If a shipment of metal arrives in wet condition, dry thoroughly before storing – evaporate moisture in air or dry air currents. When the moisture is removed shortly after the metal becomes wet, no stain will result. If stain has occurred, and the moisture causing it is not removed, the stain will develop further. Once dry, store the metal away from such obvious water sources as steam and water pipes, and reasonably away from open doors and windows.

Condensation is perhaps the most troublesome cause of water stains. In severe cases, it may also cause surface deterioration which may only become apparent when the metal is later etched and anodised. Prevent it by avoiding conditions where airborne moisture increases enough to carry the dew point above the metal temperature. Ensure that a sudden fall in temperature or increase in humidity does not occur in storage areas. Aluminium packed in original boxes should never be left in the open, because greater variations in outdoor temperature and humidity increase the possibility of condensation. Even if the package is wrapped in water-resistant paper, the impossibility of obtaining a perfect seal makes outdoor storage highly undesirable. So-called waterproof packages are designed solely for the protection of the metal during shipment and are not meant to withstand extended exposure to the weather.

Try to store cold metal in a dry storage area until its temperature has increased substantially before bringing it into a heated areas with higher humidity. Place new shipments in temporary storage where their temperature is raised slowly to that of the permanent storage room.

Where water stains have occurred, the degree of staining may be judged fairly accurately by the relative roughness of the stained area. If the surface is fairly smooth overall, the stain is superficial, and its appearance can be improved by mechanical or chemical treatments. Scratch-brushing or the use of steel wool and oil is effective in removing water stain. If a chemical dip without undue etching is preferred, an aqueous solution containing 10% by volume of sulphuric acid and 3% by weight of chromic acid at about 10°C may be used.



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## ANODISING

The capacity of aluminium to respond to anodising, the most familiar of finishes, makes aluminium a most important metal in a fundamental way. The fact that aluminium can accept this attractive, durable and tough-wearing finish makes it possible to exploit its strength and lightness in a large number of applications, particularly in building construction.

Anodising is essentially an induced thickening of the natural protective oxide film on the metal's surface. It converts the surface of the parent metal, not a 'coating' in the usual sense. Unless severely deformed or stressed by excessive thermal movement, the anodic film will not chip, peel or crack. With conventional sulphuric acid anodising, anodised alloys produce a clear, hard and extremely corrosion-resistant film capable of being coloured. The functional and decorative potential this offers is widely used in applications ranging from building components to domestic cookware. Varying the conventional electrolyte composition, combined with process variables, produces anodic finishes with distinctive functional properties. Thus, very hard anodic films are developed for abrasion-resistant surfaces on gears, pistons, bearings and similar components.

Anodic films can be coloured in many ways. Conventional sulphuric acid films are microscopically porous and organic or inorganic dyes and pigments may be sealed in the film. Very durable coloured films used for exposed environments are usually produced integrally and permanently with the evolution of the anodic layer. Whether anodising is clear or coloured, it is important that designers understand its essential nature. Inevitably, the anodic film reproduces the physical nature of the original metal surface. This means that any mechanical finish applied previously to the surface will be evident, and the characteristics of different metal forms will persist. Thus, extruded and sheet metal, if colour-anodised to the same specification and placed together, will show an apparent colour difference due solely to minor but characteristic differences in surface profile peculiar to their individual mill processes.

The basic anodising process consists of a suitable chemical pre-cleaning dip, followed by etching in a caustic soda base solution, anodising electrolytically in sulphuric acid or other solution and finally sealing to reduce porosity. The finished anodised surface is in fact an inert, and therefore protective, film of aluminium oxide. The thickness of the aluminium-oxide anodising is varied by processing time to suit its application. The following guide quotes minimum figures, film thickness being checked on a batch basis by electronic means.

- 12 micron:** Common Standard for internal and outdoor applications where cleaning is frequently required.
- 15 micron:** General architectural requirement.
- 25 micron:** Heavy duty external architectural or marine applications where little deterioration can be tolerated.

Colour finishes are checked for accuracy against standards, and tested for leaching by immersion in a boiling 0.1% borax solution.

## THERMOSET POWDERCOATING

The application of thermoset powdercoatings on aluminium has increased dramatically. The wide variety of powder types now available in the process allow the engineer or architect to specify powdercoating for a wide variety of applications with confidence. Polyester thermosetting powder is the most commonly specified product because of its excellent resistance to natural weathering, a high degree of chalk resistance and colour fastness, high levels of mechanical properties and good chemical and corrosion resistance.

Standard colour ranges provide ample choice but colour-matching to specific colours can be achieved on request. After a cleaning process, the surface is chromate-converted to enhance corrosion resistance and optimise adhesion of the thermosetting.

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Aluminium is a proven construction material for buildings, vehicles, appliances and products, both as a framing and cladding material. In the building industry, it is by far the most common material used for window and door joinery, curtain walls and shop fronts. It is widely used in every aspect of the transport, leisure, boating and household appliance industries. Its selection is based on many criteria – one being its ease of fabrication to provide visual appeal and easy maintenance.

Aluminium has natural beauty and lustre of its own, yet its surface can be treated in various ways to protect and enhance its appearance, which can be maintained with regular, low-maintenance attention.

The surface of fabricated aluminium, whether untreated, anodised or coated, can be spoiled by improper care. Here, we briefly summarise the methods of maintaining good appearance of aluminium surfaces after installation. Usually this care is no more than periodic cleaning, as in eg: window glass. Anodising treatment will substantially enhance appearance, render the surface more resistant to various forms of attack and facilitate cleaning and maintenance.

The Architectural Aluminium Fabricators' Association of New Zealand has published a guide which deals with all aspects of design and use, care and maintenance. Here we only briefly highlight the cleaning aspect since it applies to so many users of architectural aluminium products.

Grime which causes deterioration cannot be prevented from settling on exposed surfaces. If cleaned reasonably frequently then the mildest methods of washing will produce satisfactory results. There are many ways to clean aluminium, from using plain water to harsh abrasives. The type of cleaning that should be used is governed by the finish, degree of soiling, and the size, shape and location of the surface to be cleaned. The mildest method possible should be used, particularly for aluminium which has been anodised.

With anodised aluminium, surface deterioration occurs as a result of grime deposition and contaminated moisture attack. In coastal environments it is caused by airborne chlorides, in industrial or urban environments by sulphur compounds. Grime deposits absorb contaminated moisture like a sponge, assisting attack on the film, which cannot be restored without removal. Cleaning frequency depends on accessibility and environmental severity. In rural areas, cleaning may be needed only every six months. In industrial and marine environments, cleaning is recommended at least every three months, preferably monthly.

The following cleaning materials and procedures are listed in order from mild to harsh. The mildest treatment should be tried on a small area and if not satisfactory only then should the next be examined:

1. Plain water
2. Water with mild soap or detergent
3. Solvents, eg: kerosene, turpentine, white spirit.
4. Non-etching chemical cleaner
5. Wax-based polish
6. Abrasive wax
7. Abrasives

After applying cleaning agents, the surface should be washed down thoroughly and dried with a clean cloth to prevent streaking. There should be no concentration of cleaning agents at the bottom edges of the aluminium. If using proprietary cleaning solutions, manufacturers' recommendations should be obtained and followed carefully.

If abrasives are used, the appearance of the aluminium finish may be altered. If there is a grain in the finish, cleaning action should always be with the grain. If the condition of the surface indicates the use of abrasive or etching materials, it is advisable to consult a cleaning specialist. If all other methods fail it may be necessary to resort to heavy-duty cleaning. This involves cleaning methods using strong etching chemicals or coarser abrasives.



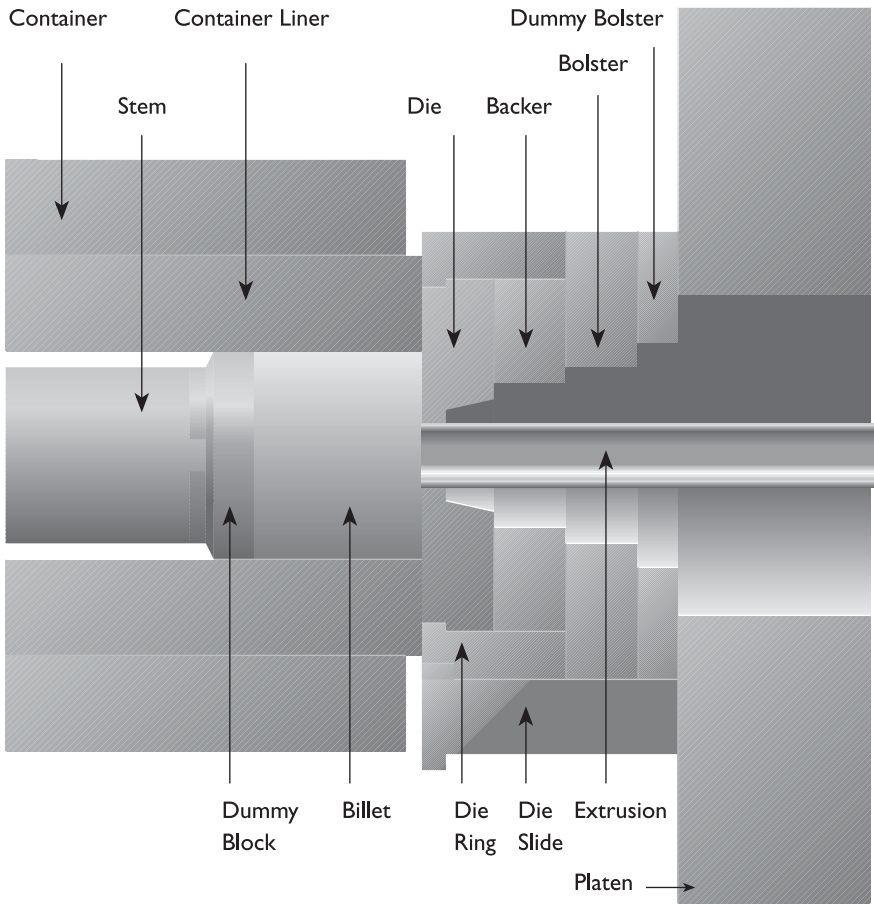
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Profiles in one process



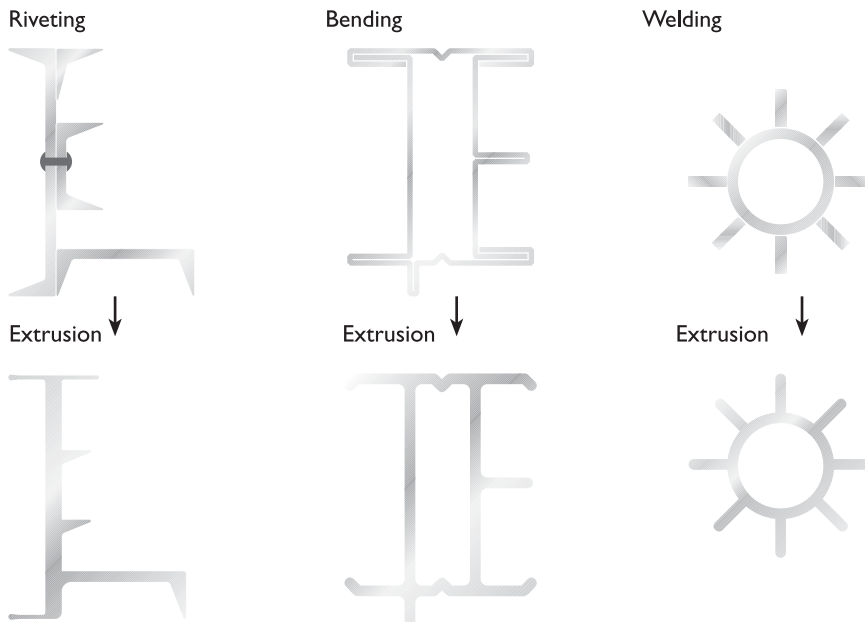
In the extrusion of aluminium, long billets are cut to manageable lengths, heated to 400° to 500°C then fed into a container heater of the extruder. The billet is then pushed through the die by hydraulic force to form the extruded shape.

In this process, the quality of the extruded profile is influenced by the billet temperature, die temperature, extrusion speed and other technical conditions, and rigid quality control constraints are required throughout.

The extruded profile is tensed with a pulling mechanism and cooled in transit from the runout table. Flexure, torsion and other irregularities generated in extrusion and cooling are removed in this process.

The length of the extrusion at this stage is about 20 to 40 metres. It is then cut into shorter lengths as required.

Typical preliminary processes for more complex extrusions



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**CONVERSION BASICS**

**Linear**

1 inch	25.4 mm
1 foot	0.3048 m
1 mm	0.0394 inches
1 m	3.28 feet

**Area**

1 sq inch	645 sq mm
1 sq foot	0.0929 sq m
1 sq mm	0.00155 sq in
1 sq m	10.84 sq ft

**Volume**

1 cubic inch	16387 cu mm
1 cu mm	0.000061 cu in

**Force**

1 lb per sq ft	4.45 Newtons
1 Newton	0.225 lbs per ft

**Stress**

1 lb per sq in	0.00689 MPa
1 MPa	145 lbs per sq in

inches	mm	inches	mm	inches	mm	inches	mm
1/64	0.3969	1 1/32	26.1938	3 1/32	76.9938	5 1/32	127.794
1/32	0.7938	1 1/16	26.9875	3 1/16	77.7875	5 1/16	128.588
3/64	1.1906	1 3/32	27.7813	3 3/32	78.5813	5 3/32	129.381
1/16	1.5875	1 1/8	28.5750	3 1/8	79.3750	5 1/8	130.175
5/64	1.9844	1 5/32	29.3688	3 5/32	80.1688	5 5/32	130.969
3/32	2.3813	1 3/16	30.1625	3 3/16	80.9625	5 3/16	131.762
7/64	2.7781	1 7/32	30.9563	3 7/32	81.7563	5 7/32	132.556
1/8	3.1750	1 1/4	31.7500	3 1/4	82.5500	5 1/4	133.350
9/64	3.5719	1 9/32	32.5438	3 9/32	83.3438	5 9/32	134.144
5/32	3.9688	1 5/16	33.3375	3 5/16	84.1375	5 5/16	134.938
11/64	4.3656	1 11/32	34.1313	3 11/32	84.9313	5 11/32	135.731
3/16	4.7625	1 3/8	34.9250	3 3/8	85.7250	5 3/8	136.525
13/64	5.1594	1 13/32	35.7188	3 13/32	86.5188	5 13/32	137.319
7/32	5.5563	1 7/16	36.5125	3 7/16	87.3125	5 7/16	138.112
15/64	5.9531	1 15/32	37.3063	3 15/32	88.1063	5 15/32	138.906
1/4	6.3500	1 1/2	38.1000	3 1/2	88.9000	5 1/2	139.700
17/64	6.7469	1 17/32	38.8938	3 17/32	89.6938	5 17/32	140.494
9/32	7.1438	1 9/16	39.6875	3 9/16	90.4875	5 9/16	141.288
19/64	7.5406	1 19/32	40.4813	3 19/32	91.2813	5 19/32	142.081
5/16	7.9375	1 5/8	41.2750	3 5/8	92.0750	5 5/8	142.875
21/64	8.3344	1 21/32	42.0688	3 21/32	92.8688	5 21/32	143.669
11/32	8.7313	1 11/16	42.8625	3 11/16	93.6625	5 11/16	144.462
23/64	9.1281	1 23/32	43.6563	3 23/32	94.4563	5 23/32	145.256
3/8	9.5250	1 3/4	44.4500	3 3/4	95.2500	5 3/4	146.050
25/64	9.9219	1 25/32	45.2438	3 25/32	96.0438	5 25/32	146.844
13/32	10.3188	1 13/16	46.0375	3 13/16	96.8375	5 13/16	147.638
27/64	10.7156	1 27/32	46.8313	3 27/32	97.6313	5 27/32	148.431
7/16	11.1125	1 7/8	47.6250	3 7/8	98.4250	5 7/8	149.225
29/64	11.5094	1 29/32	48.4188	3 29/32	99.2188	5 29/32	150.019
15/32	11.9063	1 15/16	49.2125	3 15/16	100.0120	5 15/16	150.812
31/64	12.3031	1 31/32	50.0063	3 31/32	100.8060	5 31/32	151.606
1/2	12.7000	2 inches	50.8000	4 inches	101.6000	6 inches	152.400
33/64	13.0969	2 1/32	51.5938	4 1/32	102.3940	6 1/16	153.988
17/32	13.4938	2 1/16	52.3875	4 1/16	103.1880	6 1/8	155.575
35/64	13.8906	2 3/32	53.1813	4 3/32	103.9810	6 3/16	157.162
9/16	14.2875	2 1/8	53.9750	4 1/8	104.7750	6 1/4	158.750
37/64	14.6844	2 5/32	54.7688	4 5/32	105.5690	6 5/16	160.338
19/32	15.0813	2 3/16	55.5625	4 3/16	106.3620	6 3/8	161.925
39/64	15.4781	2 7/32	56.3563	4 7/32	107.1560	6 7/16	163.512
5/8	15.8750	2 1/4	57.1500	4 1/4	107.9500	6 1/2	165.100
41/64	16.2719	2 9/32	57.9438	4 9/32	108.7440	6 9/16	166.688
21/32	16.6688	2 5/16	58.7375	4 5/16	109.5380	6 5/8	168.275
43/64	17.0656	2 11/32	59.5313	4 11/32	110.3310	6 11/16	169.862
11/16	17.4625	2 3/8	60.3250	4 3/8	111.1250	6 3/4	171.450
45/64	17.8594	2 13/32	61.1188	4 13/32	111.9190	6 13/16	173.038
23/32	18.2563	2 7/16	61.9125	4 7/16	112.7120	6 7/8	174.625
47/64	18.6531	2 15/32	62.7063	4 15/32	113.5060	6 15/16	176.212
3/4	19.0500	2 1/2	63.5000	4 1/2	114.3000	7 inches	177.800
49/64	19.4469	2 17/32	64.2938	4 17/32	115.0940	7 1/16	179.388
25/32	19.8438	2 9/16	65.0875	4 9/16	115.8880	7 1/8	180.975
51/64	20.2406	2 19/32	65.8813	4 19/32	116.6810	7 3/16	182.562
13/16	20.6375	2 5/8	66.6750	4 5/8	117.4750	7 1/4	184.150
53/64	21.0344	2 21/32	67.4688	4 21/32	118.2690	7 5/16	185.738
27/32	21.4313	2 11/16	68.2625	4 11/16	119.0620	7 3/8	187.325
55/64	21.8281	2 23/32	69.0563	4 23/32	119.8560	7 7/16	188.912
7/8	22.2250	2 3/4	69.8500	4 3/4	120.6500	7 1/2	190.500
57/64	22.6219	2 25/32	70.6438	4 25/32	121.4440	7 9/16	192.088
29/32	23.0188	2 13/16	71.4375	4 13/16	122.2380	7 5/8	193.675
59/64	23.4156	2 27/32	72.2313	4 27/32	123.0310	7 11/16	195.262
15/16	23.8125	2 7/8	73.0250	4 7/8	123.8250	7 3/4	196.850
61/64	24.2094	2 29/32	73.8188	4 29/32	124.6190	7 13/16	198.438
31/32	24.6063	2 15/16	74.6125	4 15/16	125.4120	7 7/8	200.025
63/64	25.0031	2 31/32	75.4063	4 31/32	126.2060	7 15/16	201.612
1 inch	25.4000	3 inches	76.2000	5 inches	127.0000	8 inches	203.200



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inches	mm	ft ins	mm	ft ins	mm	feet	mm
8 1/16	204.788	1 1	330.200	6 5	1955.80	31	9448.80
8 1/8	206.375	1 2	355.600	6 6	1981.20	32	9753.60
8 3/16	207.962	1 3	381.000	6 7	2006.60	33	10,058.4
8 1/4	209.550	1 4	406.400	6 8	2032.00	34	10,363.2
8 5/16	211.138	1 5	431.800	6 9	2057.40	35	10,668.0
8 3/8	212.725	1 6	457.200	6 10	2082.80	36	10,972.8
8 7/16	214.312	1 7	482.600	6 11	2108.20	37	11,277.6
8 1/2	215.900	1 8	508.000	7 0	2133.60	38	11,582.4
8 9/16	217.488	1 9	533.400	7 1	2159.00	39	11,887.2
8 5/8	219.075	1 10	558.800	7 2	2184.40	40	12,192.0
8 11/16	220.662	1 11	584.200	7 3	2209.80	41	12,496.8
8 3/4	222.250	2 0	609.600	7 4	2235.20	42	12,801.6
8 13/16	223.838	2 1	635.000	7 5	2260.60	43	13,106.4
8 7/8	225.425	2 2	660.400	7 6	2286.00	44	13,411.2
8 15/16	227.012	2 3	685.800	7 7	2311.40	45	13,716.0
9 inches	228.600	2 4	711.200	7 8	2336.80	46	14,020.8
9 1/16	230.188	2 5	736.600	7 9	2362.20	47	14,325.6
9 1/8	231.775	2 6	762.000	7 10	2387.60	48	14,630.4
9 3/16	233.362	2 7	787.400	7 11	2413.00	49	14,935.2
9 1/4	234.950	2 8	812.800	8 0	2438.40	50	15,420.0
9 5/16	236.538	2 9	838.200	8 1	2463.80	51	15,544.8
9 3/8	238.125	2 10	863.600	8 2	2489.20	52	15,849.6
9 7/16	239.712	2 11	889.000	8 3	2514.60	53	16,154.4
9 1/2	241.300	3 0	914.400	8 4	2540.00	54	16,459.2
9 9/16	242.888	3 1	939.800	8 5	2565.40	55	16,764.0
9 5/8	244.475	3 2	965.200	8 6	2590.80	56	17,068.8
9 11/16	246.062	3 3	990.600	8 7	2616.20	57	17,373.6
9 3/4	247.650	3 4	1016.00	8 8	2641.60	58	17,678.4
9 13/16	249.238	3 5	1041.40	8 9	2667.00	59	17,983.2
9 7/8	250.825	3 6	1066.80	8 10	2692.40	60	18,288.0
9 15/16	252.412	3 7	1092.20	8 11	2717.80	61	18,592.8
10 inches	254.000	3 8	1117.60	9 0	2743.20	62	18,897.6
10 1/16	255.588	3 9	1143.00	9 1	2768.60	63	19,202.4
10 1/8	257.175	3 10	1168.40	9 2	2794.00	64	19,507.2
10 3/16	258.762	3 11	1193.80	9 3	2819.40	65	19,812.0
10 1/4	260.350	4 0	1219.20	9 4	2844.80	66	20,116.8
10 5/16	261.938	4 1	1244.60	9 5	2870.20	67	20,421.6
10 3/8	263.525	4 2	1270.00	9 6	2895.60	68	20,726.4
10 7/16	265.112	4 3	1295.40	9 7	2921.00	69	21,031.2
10 1/2	266.700	4 4	1320.80	9 8	2946.40	70	21,336.0
10 9/16	268.288	4 5	1346.20	9 9	2971.80	71	21,640.8
10 5/8	269.875	4 6	1371.60	9 10	2997.20	72	21,945.6
10 11/16	271.462	4 7	1397.00	9 11	3022.60	73	22,250.4
10 3/4	273.050	4 8	1422.40	10 0	3048.00	74	22,555.2
10 13/16	274.638	4 9	1447.80	11 0	3352.80	75	22,860.0
10 7/8	276.225	4 10	1473.20	12 0	3657.60	76	23,164.8
10 15/16	277.812	4 11	1498.60	13 0	3962.40	77	23,469.6
11 inches	279.400	5 0	1524.00	14 0	4267.20	78	23,774.4
11 1/16	280.988	5 1	1549.40	15 0	4572.00	79	24,079.2
11 1/8	282.575	5 2	1574.80	16 0	4876.80	80	24,384.0
11 3/16	284.162	5 3	1600.20	17 0	5181.60	81	24,688.8
11 1/4	285.750	5 4	1625.60	18 0	5486.40	82	24,993.6
11 5/16	287.338	5 5	1651.00	19 0	5791.20	83	25,298.4
11 3/8	288.925	5 6	1676.40	20 0	6096.00	84	25,603.2
11 7/16	290.512	5 7	1701.80	21 0	6400.80	85	25,908.0
11 1/2	292.100	5 8	1727.20	22 0	6705.60	86	26,212.8
11 9/16	293.688	5 9	1752.60	23 0	7010.40	87	26,517.6
11 5/8	295.275	5 10	1778.00	24 0	7315.20	88	26,822.4
11 11/16	296.862	5 11	1803.40	25 0	7620.00	89	27,127.2
11 3/4	298.450	6 0	1828.80	26 0	7924.80	90	27,432.0
11 13/16	300.038	6 1	1854.20	27 0	8229.60	91	27,736.8
11 7/8	301.625	6 2	1879.60	28 0	8534.40	92	28,041.6
11 15/16	303.212	6 3	1905.00	29 0	8839.20	93	28,346.4
12 inches	304.800	6 4	1930.40	30 0	9144.00	94	28,651.2

USEFUL FORMULAE

Nominal mass ( kg/m<sup>2</sup> ) of aluminium sheet and plate:

Thickness mm	Nominal mass kg/m <sup>2</sup>
0.5	1.335
0.6	1.626
0.7	1.897
0.8	2.168
0.9	2.439
1.0	2.710
1.2	3.252
1.6	4.336
2.0	5.420
2.5	6.775
3.0	8.130
4.0	10.840
5.0	13.550
6.0	16.260
8.0	21.680
10.0	27.100
12.0	32.520
16.0	43.360
20.0	54.200
25.0	67.750

Nominal mass ( kg/m<sup>2</sup> ) of extruded aluminium:

Calculate cross-section area ( mm<sup>2</sup> ) and multiply by 0.00271

Factor

( Difficulty of Extrusion Factor )

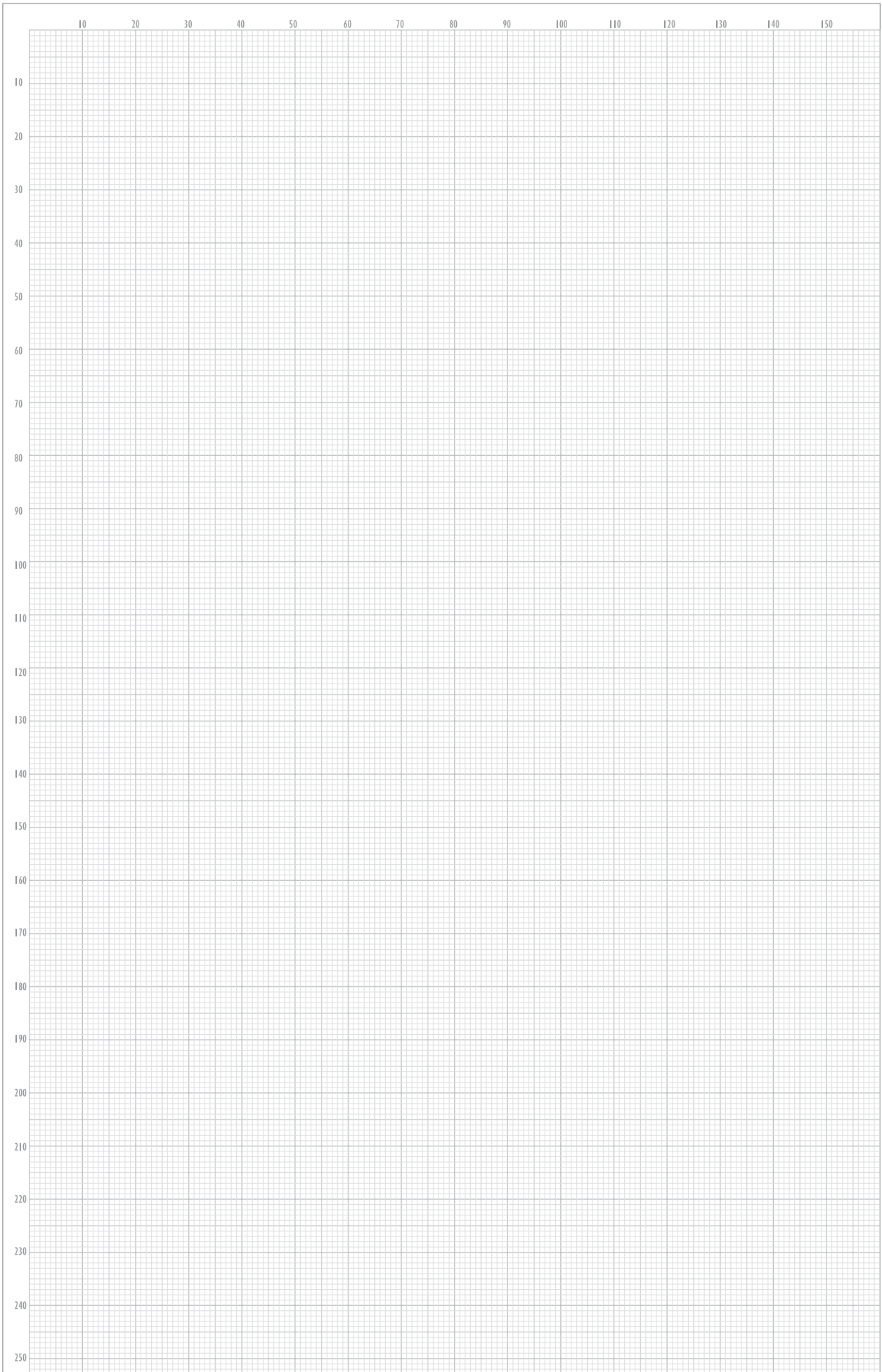
Calculate the perimeter of the section ( for hollow sections, both outside and inside perimeters ) and divide the result by the nominal mass ( kg/m ) of the section.

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

OAD = OVERALL DIMENSIONS  
P = EXT PERIPHERY



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**Map key:**

- SALES & DISTRIBUTION
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- \* EXTRUSION PLANT

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