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

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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P = EXT PERIPHERY

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WALLBOARD CAPPINGS

UA 1623
1.6mm CAPPING
kg/m 0.083 P 54
OAD 18 x 4.6

UA 1451
3mm CAPPING
kg/m 0.088 P 68
OAD 21 x 6

UA 3871
4.5mm AQUAPANEL CAP
kg/m 0.115 P 70
OAD 19 x 7.4

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

UA 4405
10mm CAPPING
kg/m 0.117 P 89
OAD 23 x 13.4

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

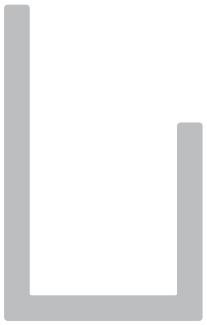
UA 3403
18mm CAPPING
kg/m 0.163 P103
OAD 21.2 x 20.8

AUS **8954**
19mm CAPPING
kg/m 0.680 P173
OAD 40 x 25

UA 1623 **UA 1451** **UA 3871** **UA 1455**

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

AUS **8954**



UA 1627 **UA 3403**

UA 1922 **UA 3404**

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

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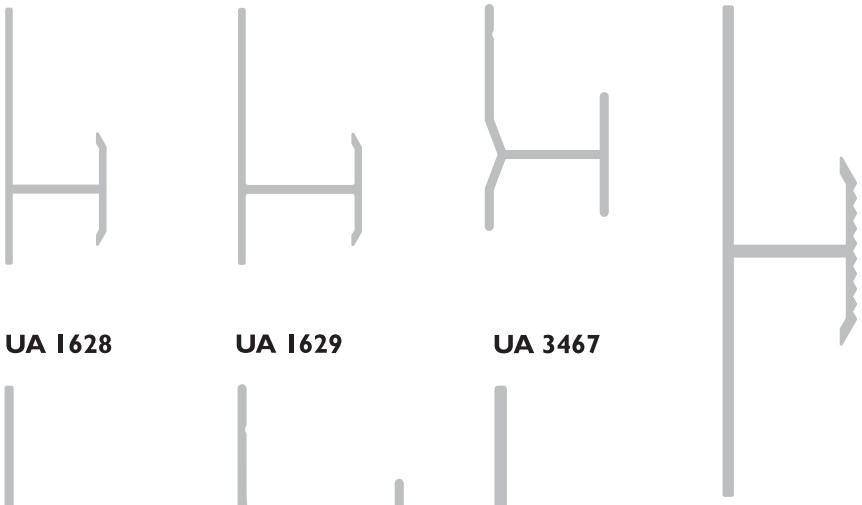
UA 1624 UA 1452 UA 3872 UA 1456 UA 1460

UA 4406 UA 7829 UA 4413 UA 4409



UA 1628 UA 1629 UA 3467

UA 3894 UA 2669

UA 1473 UA 1472

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 2669
16mm JOINTER
kg/m 0.308 P 171
OAD 30 x 22.1

UA 7829
13mm JOINTER
kg/m 0.177 P 127
OAD 34 x 16.4

UA 3894
16mm JOINTER
kg/m 0.444 P 193
OAD 40 x 19.6

UA 4413
13mm JOINTER
kg/m 0.191 P 120
OAD 30 x 16.4

UA 1629
18.5mm JOINTER
kg/m 0.275 P 165
OAD 44 x 22

UA 4409
13mm SERRATED JOINTER
kg/m 0.413 P 212
OAD 65 x 17.49

UA 1472
VARIABLE JOINTER
kg/m 0.099 P 68
OAD 25 x 4.5 Infill 11

UA 1628
14.5mm JOINTER
kg/m 0.276 P 173
OAD 50 x 18

UA 1473
PARTITION JOINTER
kg/m 0.416 P 124
OAD 46 x 9 Infill 633

INFILLS SOLD SEPARATELY

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ULLRICH ALUMINIUM

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UA 1453
3mm INT CORNER
kg/m 0.143 P 108
OAD 23 x 17.5

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

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

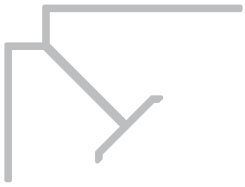
UA 1453

UA 3874

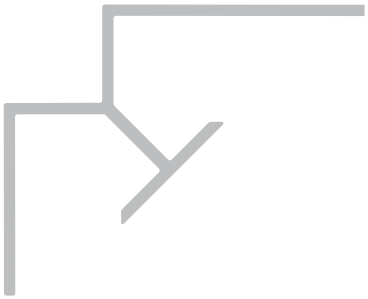
UA 1457

UA 1622

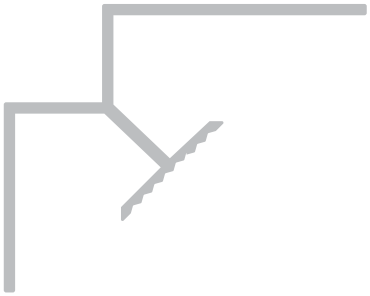
UA 4408



UA 7827



UA 4411



UA 3875

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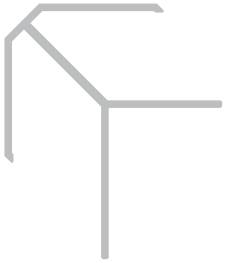
UA 1454

UA 3873

UA 1458

UA 1459

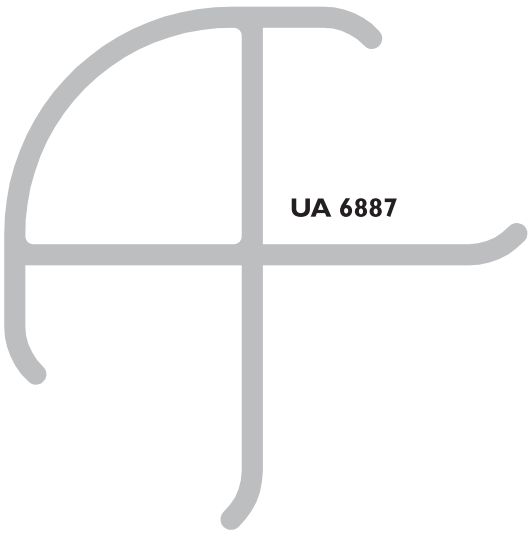
UA 4407



UA 7828

UA 4410

UA 6887



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

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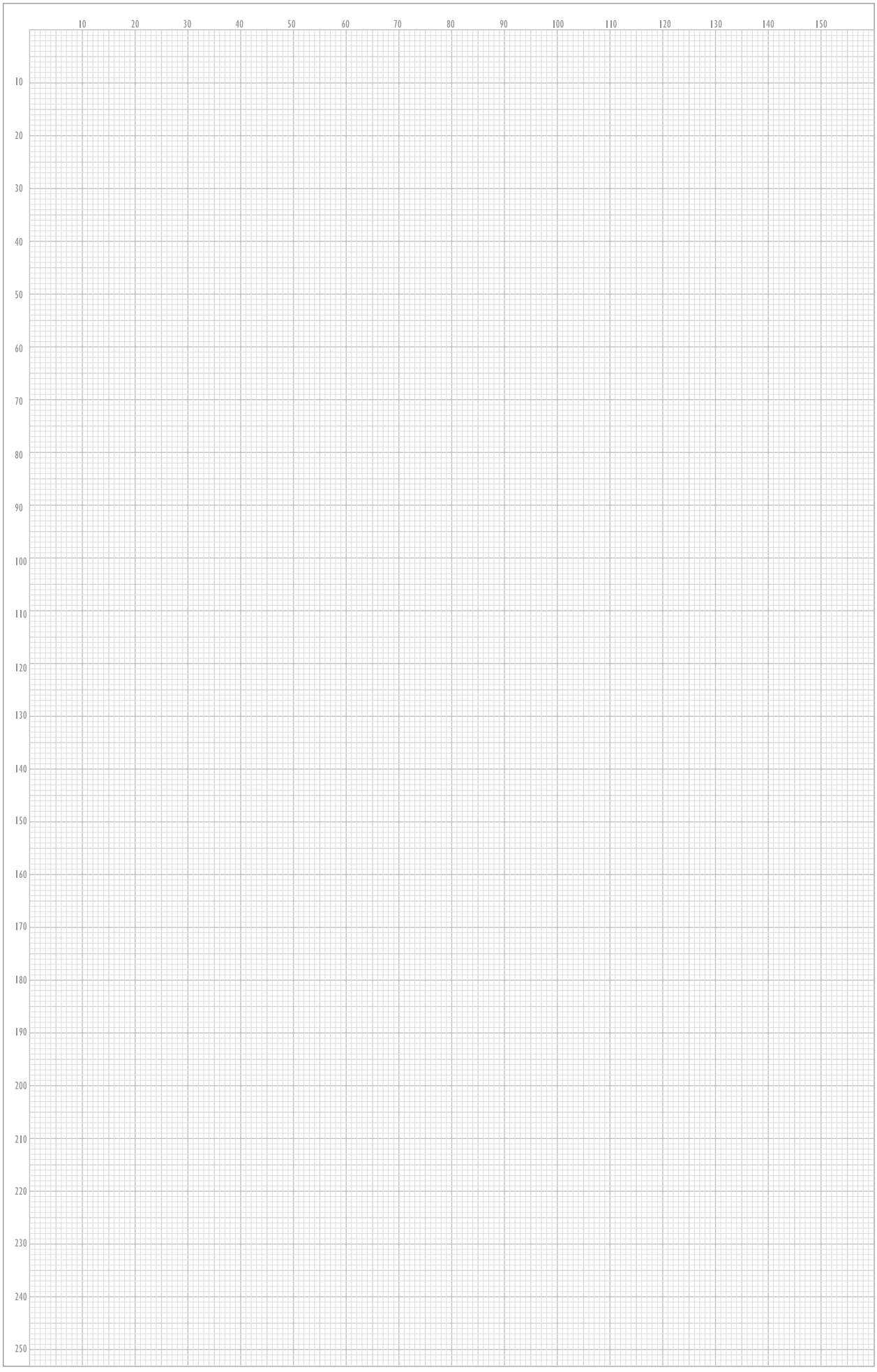
PLANNING GRID AND NOTES



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

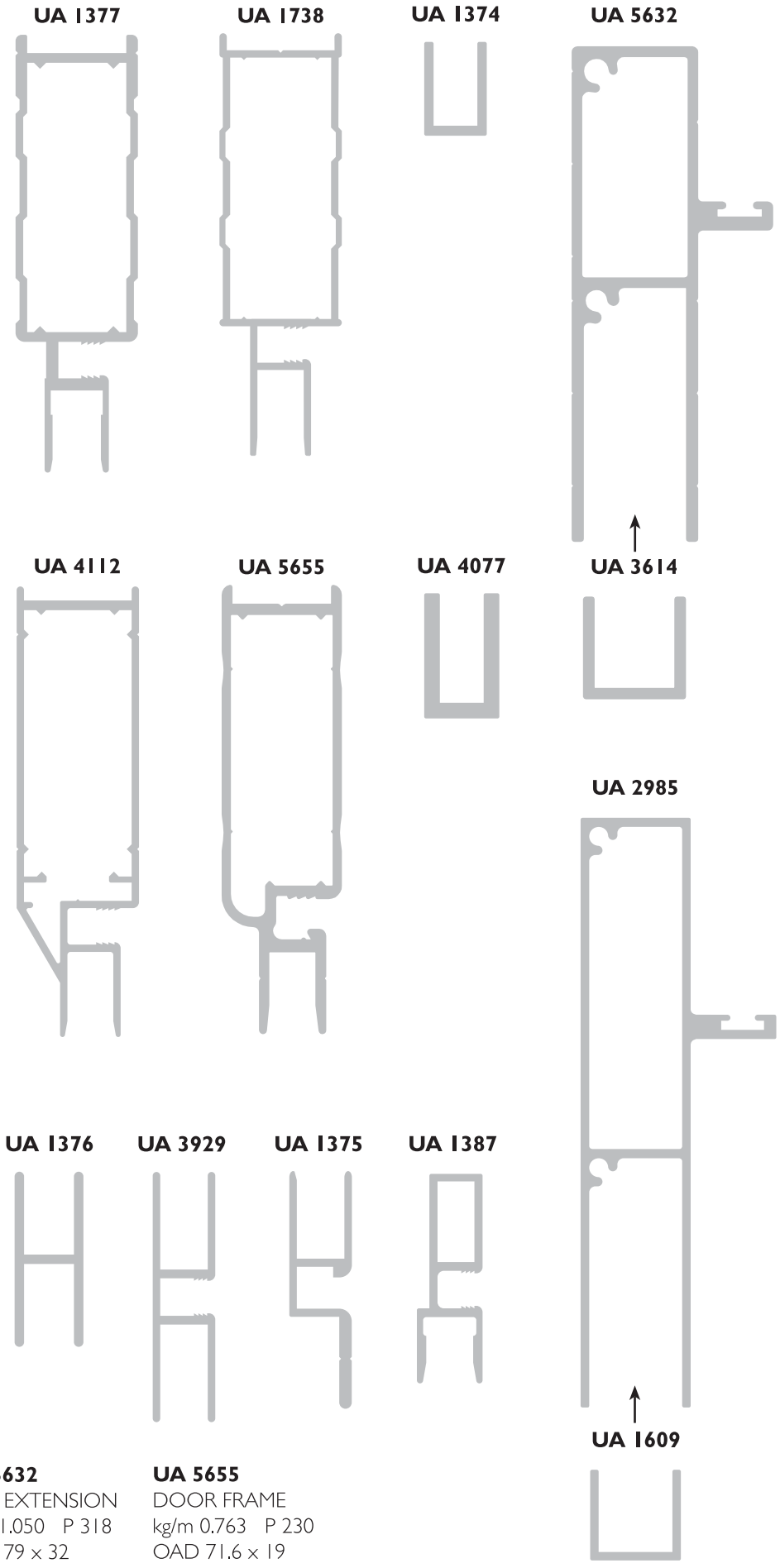
UA 2985
JAMB EXTENSION
kg/m 1.011 P 353
OAD 97 x 32

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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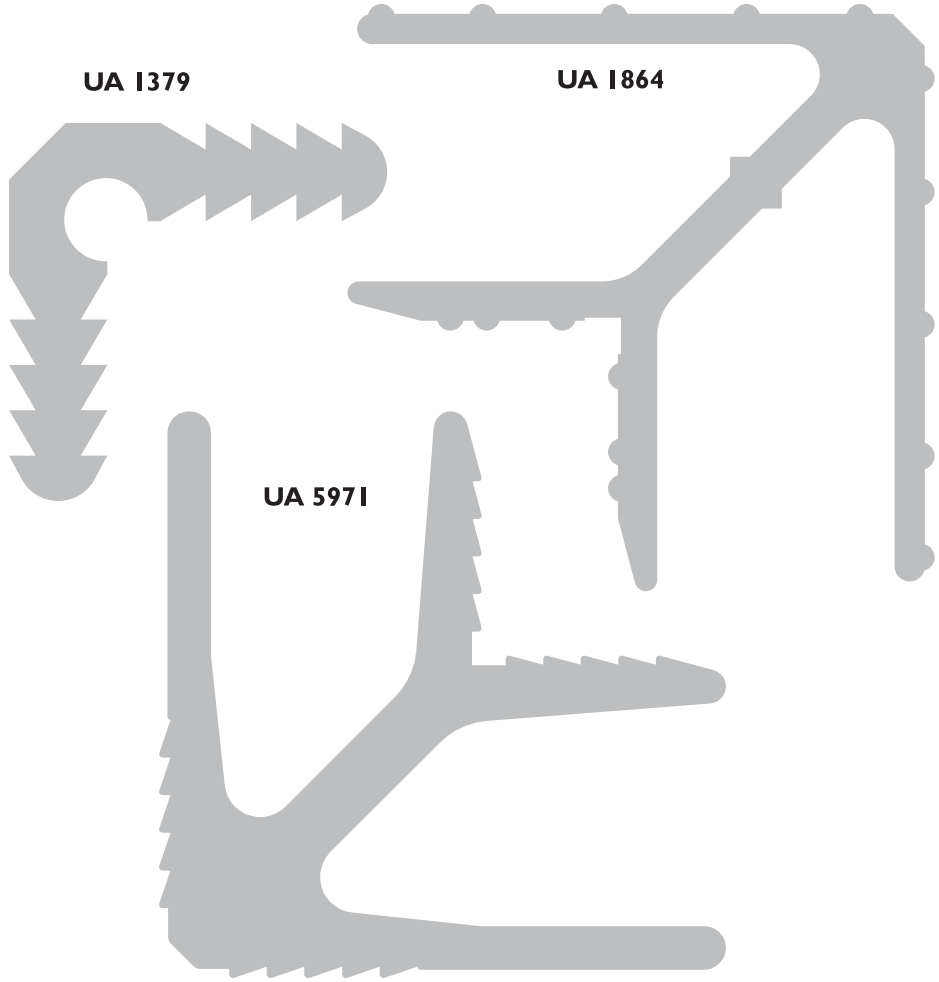

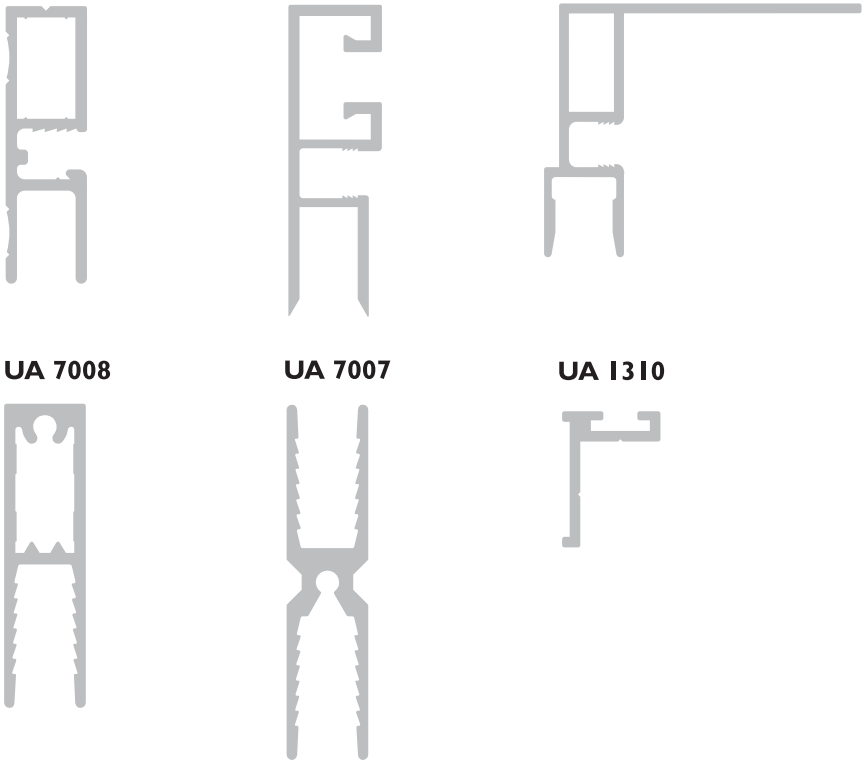

UA 1310
WOOLPILE DOOR STOP
kg/m 0.145 P 75
OAD 18 x 13

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

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UA 1942
SEC SLIDING TRACK
kg/m 0.773 P 298
OAD 41.5 x 41

UA 1943
SEC SLIDING TRACK
kg/m 0.468 P 212
OAD 32 x 31

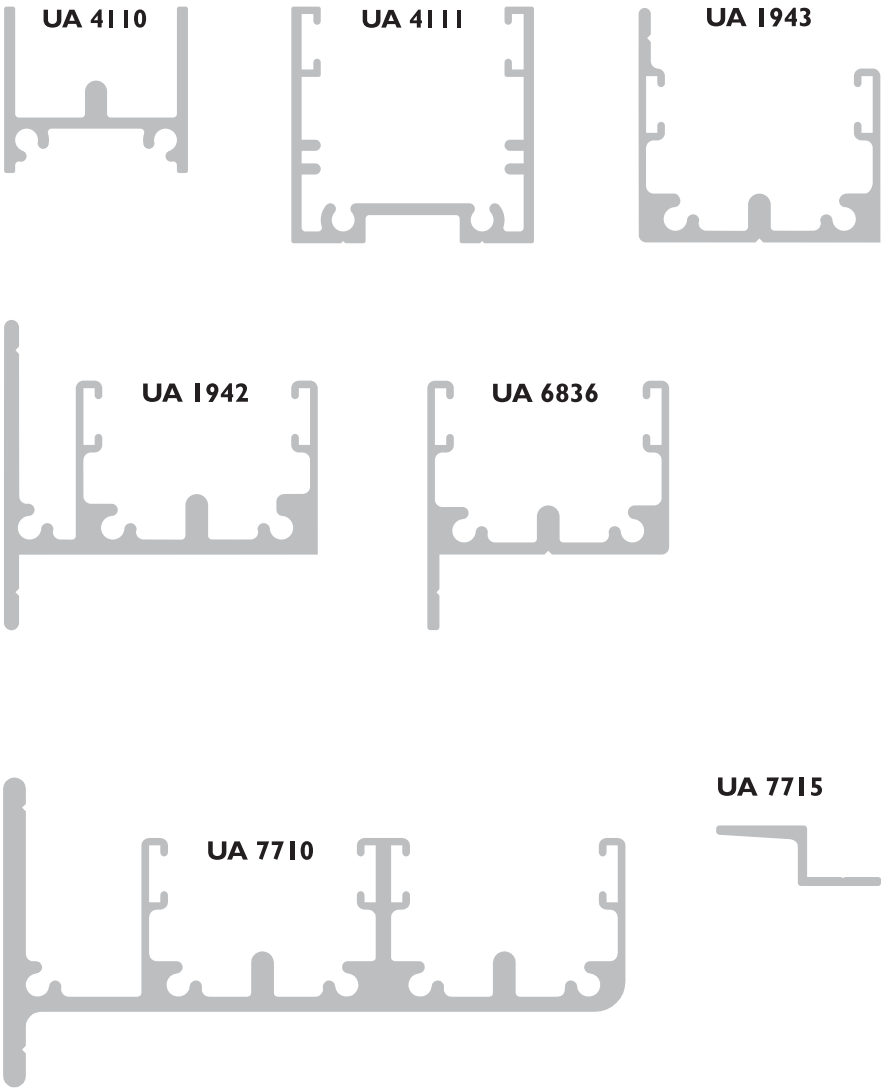
UA 4110
DOOR TRACK
kg/m 0.349 P 155
OAD 25 x 22.5

UA 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 7715
SEC DOUBLE DOOR CATCH
kg/m 0.103 P 58
OAD 21.8 x 8



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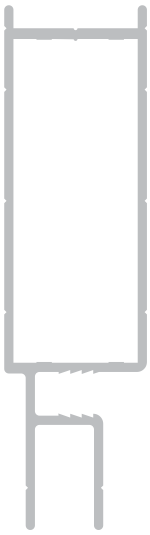
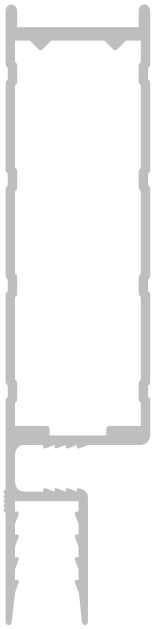
AUS **6546**



AUS **10065**

AUS **10039**



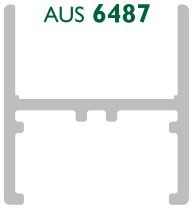
AUS **6518**

AUS **6547**

AUS **10031**

AUS **6463**

AUS **6487**



AUS **4314**

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 **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 **10065**
DOOR FRAME
kg/m 0.716 P 229
OAD 70.4 x 19.3

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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

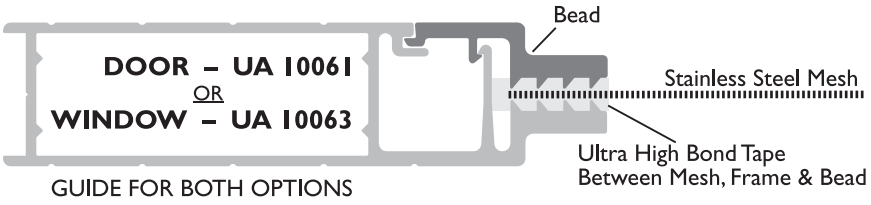
UA 10062

UA 10063

UA 10064

ULTRA HIGH BOND TAPE
Code: 2045-012

FABRICATION GUIDE



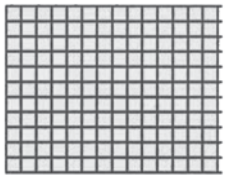
GUIDE FOR BOTH OPTIONS

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

BLACK PLASTIC INTERNAL BEAD CORNERS

DOOR CORNER
Fits 10062
Code: SECUSUA40BLK

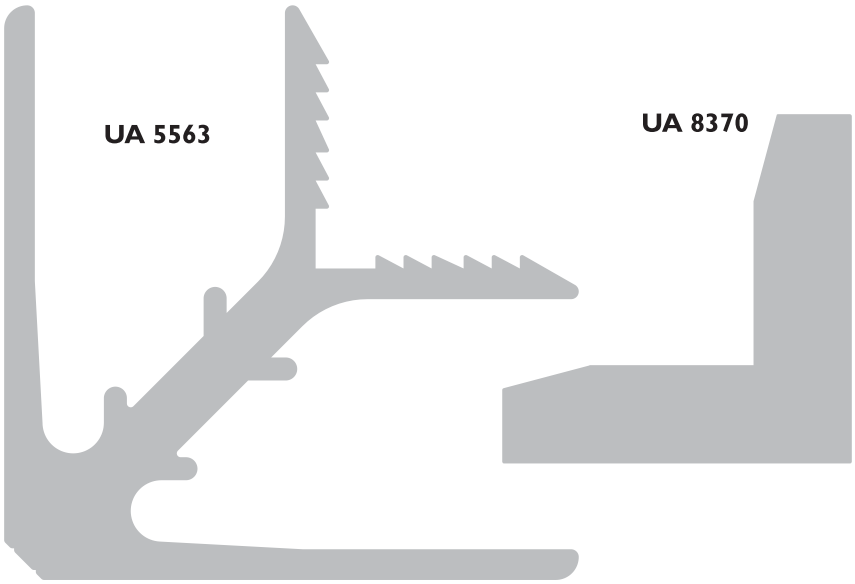
WINDOW CORNER
Fits 10064
Code: SECUSUA20BLK



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	COLOURS	ROLL WIDTHS	MESH SIZES
Aluminium	Black painted Silver treated	810 mm 910 mm 1070 mm 1220 mm 1520 mm 1830 mm	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

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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OAD = OVERALL DIMENSIONS
P = EXT PERIPHERY

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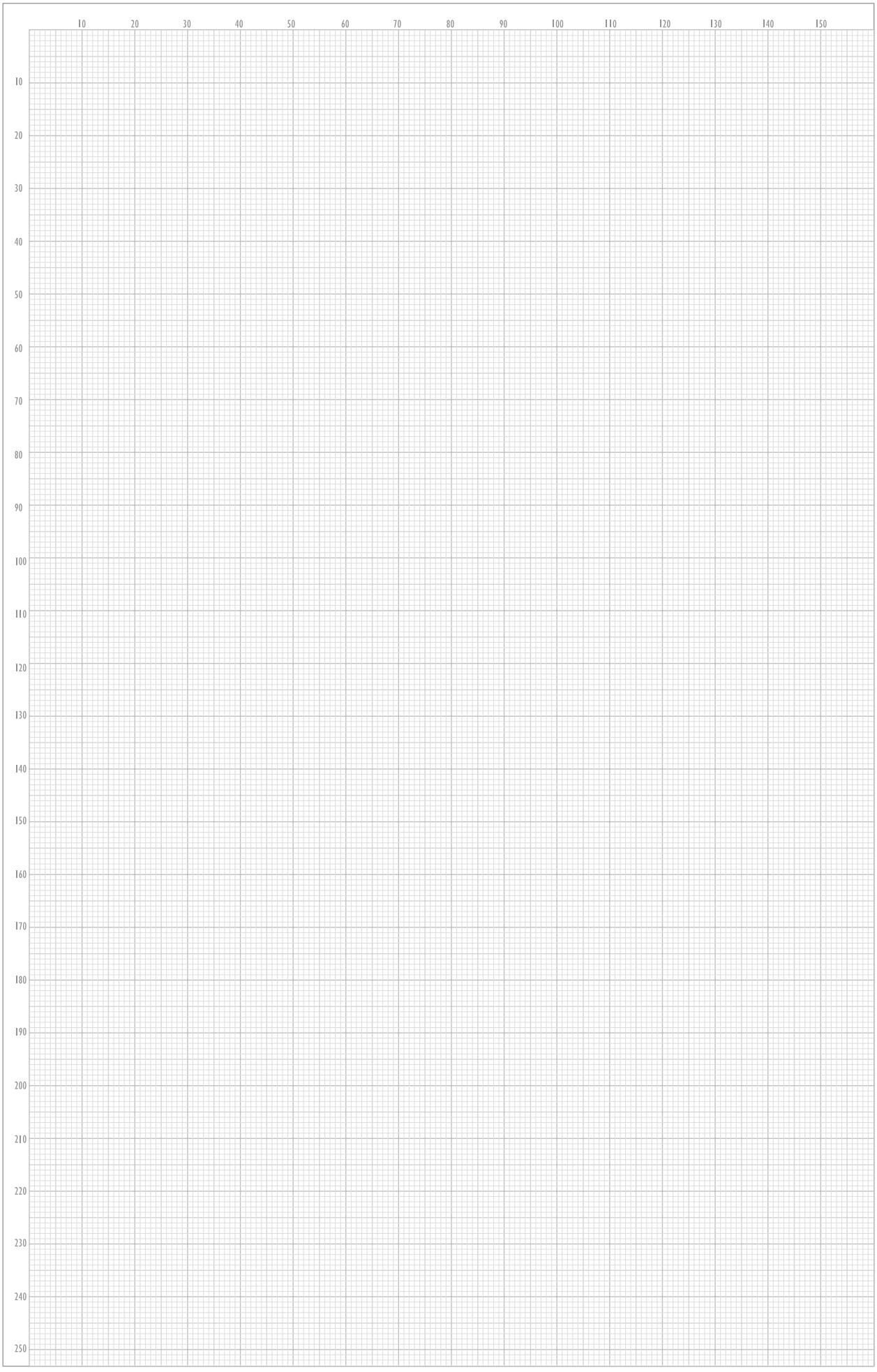
PLANNING GRID AND NOTES



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 1355
11.8mm BOTTOM CHANNEL (old)
kg/m 0.136 P 67
OAD 14.5 x 8.5

UA 1379
STAKE (gold) fits 1385,1386
kg/m 2.227 P 264
OAD 50 x 50

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 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 1513
STAKE (green) fits1054,1389,1610
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 5636
DOOR FRAME
kg/m 0.499 P 142
OAD 40 x 17

UA 5637
WINDOW SECTION
kg/m 0.251 P 96
OAD 25 x 11

UA 5638
WINDOW SECTION
kg/m 0.256 P 103
OAD 27.6 x 11

UA 1385

UA 1386

UA 1389

UA 1610

UA 1611

UA 1388

UA 1054

UA 1609

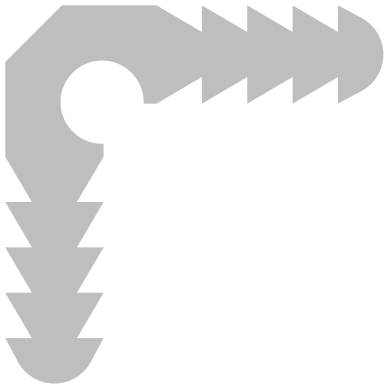
UA 1355

UA 5636

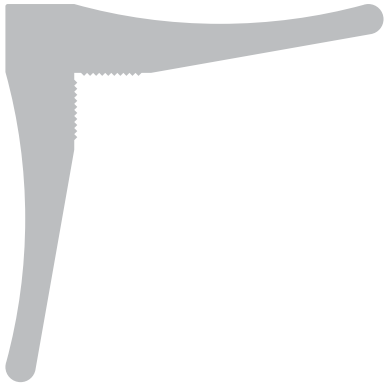
UA 5637

UA 5638

UA 1379



UA 1513



CORNER STAKE - PLASTIC
Fits 1388,1611
Code: FLYSTAKE

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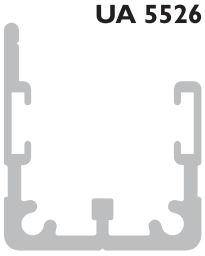
UA 1384

UA 1383

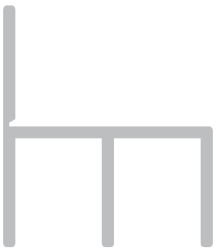
UA 1380

UA 5526



UA 5534

UA 5537

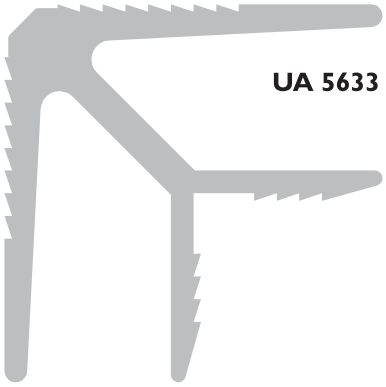


UA 5699

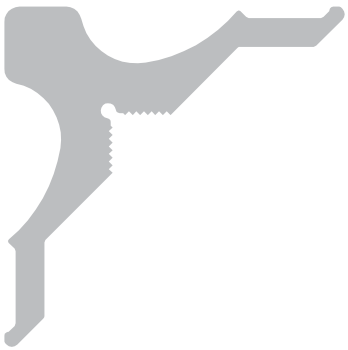
UA 6246

AUS **10558**

UA 5633



UA 5635



CORNER STAKE - PLASTIC

Fits 6246
Code: CS3

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
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 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 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

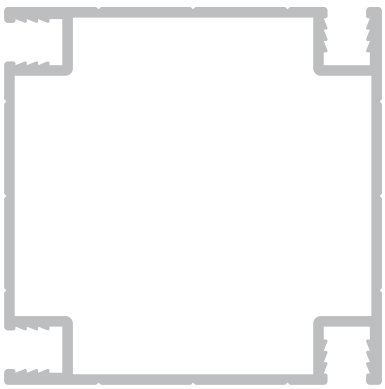
UA 5634

UA 3512

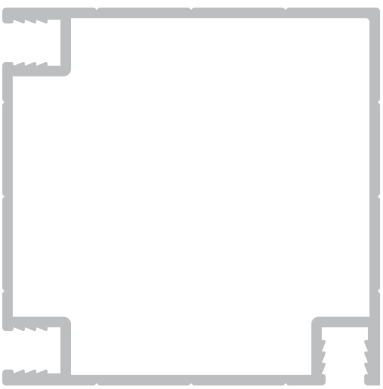
AUS **5492**

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

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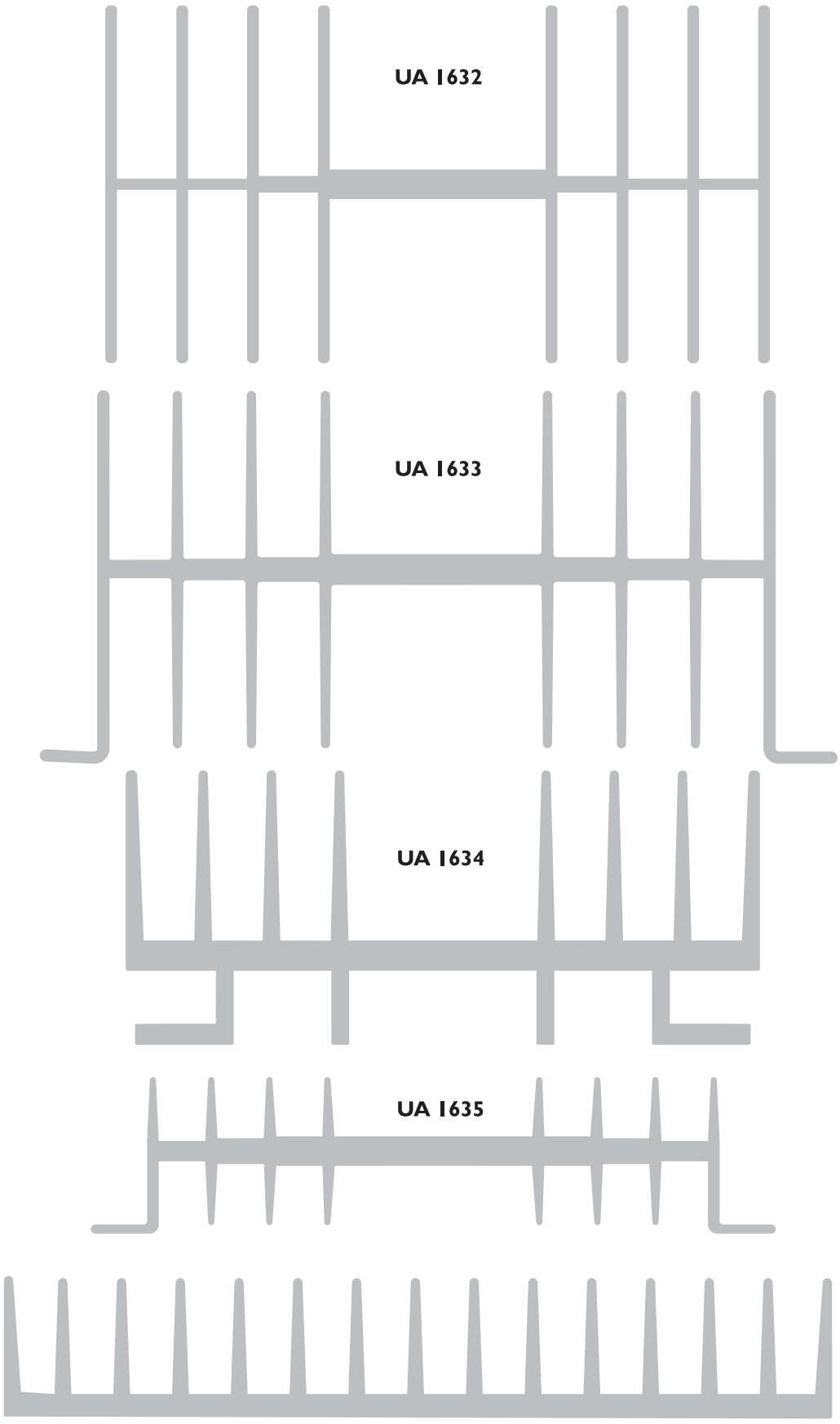
UA 1632
HEATSINK
kg/m 2.905 P 1093
OAD 108 x 58

UA 1633
HEATSINK
kg/m 3.455 P 1130
OAD 134 x 60.5

UA 1634
HEATSINK
kg/m 3.317 P 789
OAD 103 x 44.5

UA 1635
HEATSINK
kg/m 1.821 P 542
OAD 114.3 x 25.4

UA 2238
HEATSINK
kg/m 3.166 P 806
OAD 135 x 22.8



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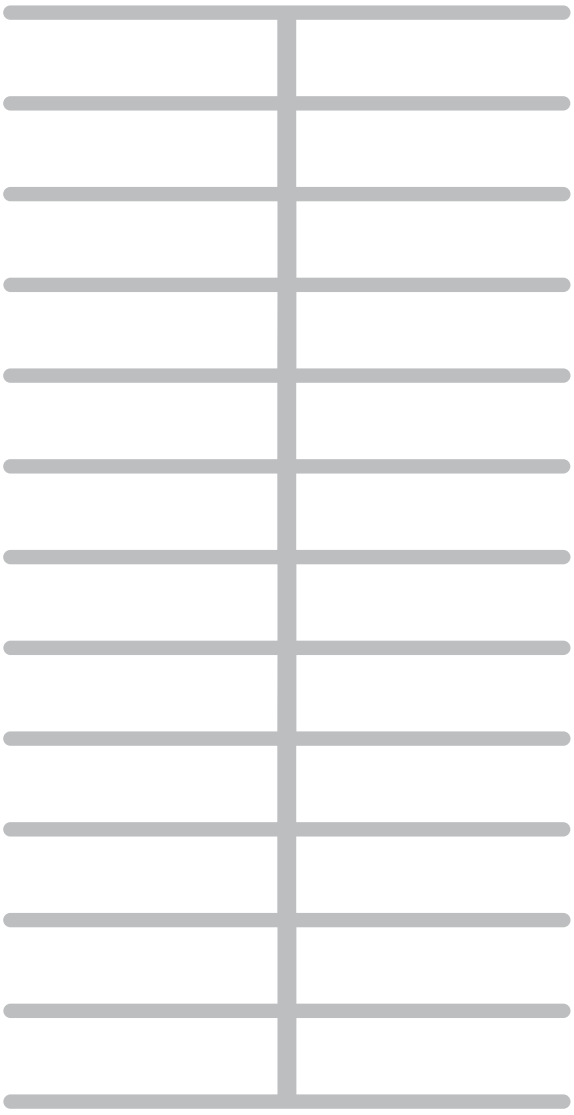
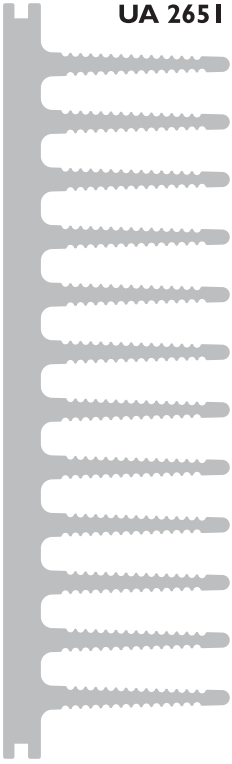
UA3133

UA 4173

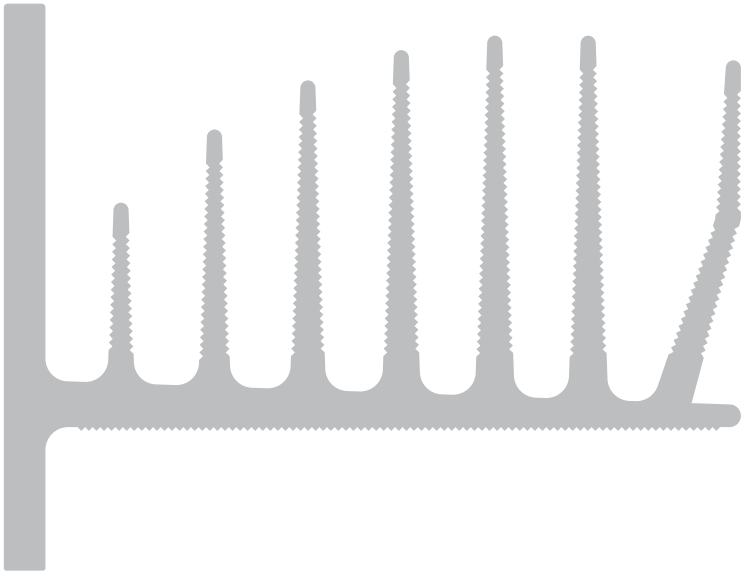


UA 2651



UA 4718

UA 2109



UA 2109
HEATSINK
kg/m 4.699 P 1087
OAD 97.5 x 75

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AUS **2284**
HEATSINK
kg/m 8.006 P 1734
OAD 150 x 48

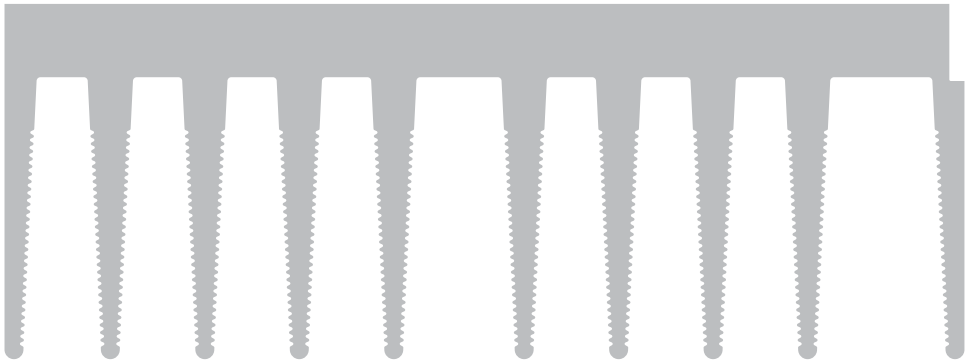
UA 2960
HEATSINK
kg/m 2.086 P 702
OAD 100 x 40

UA 3295
HEATSINK
kg/m 6.951 P 1385
OAD 150 x 40

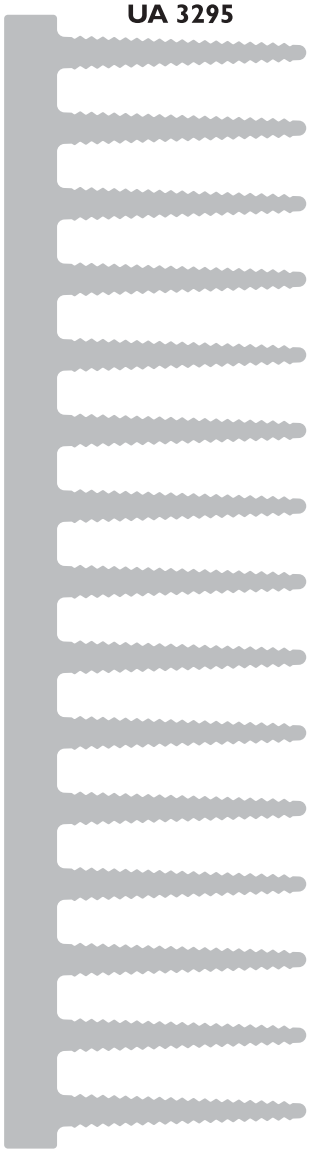
UA 4248
HEATSINK
kg/m 6.968 P 1242
OAD 127 x 47

UA 2960

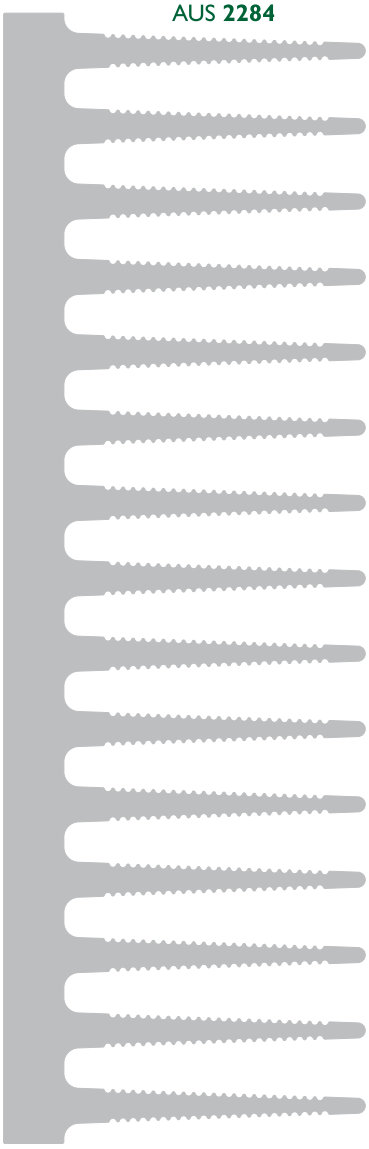
UA 4248



UA 3295



AUS **2284**



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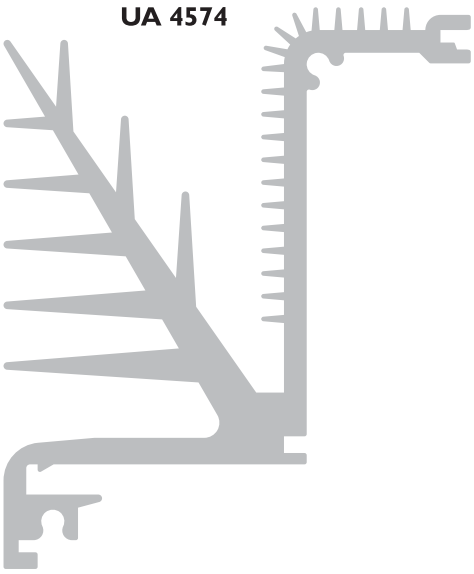
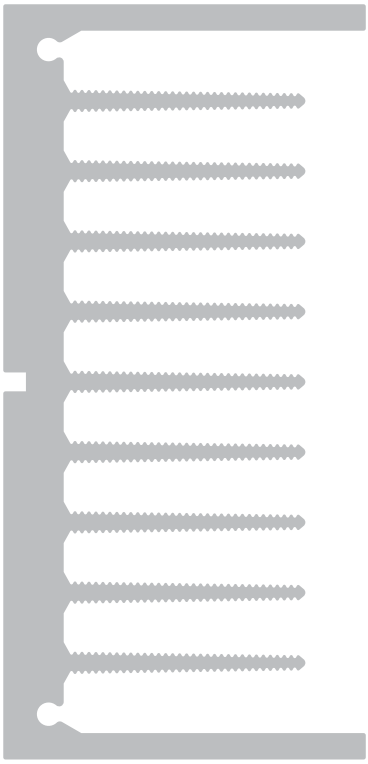
UA 4574



UA 4979



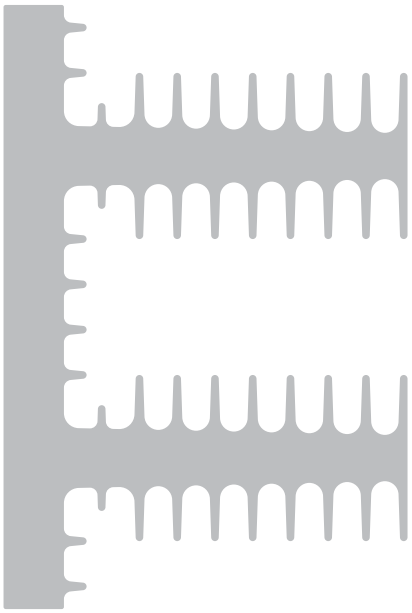
UA 2880
HEATSINK
kg/m 3.017 P 1062
OAD 133.5 x 60.5

UA 4574
HEATSINK
kg/m 2.594 P 722
OAD 74.1 x 61.65

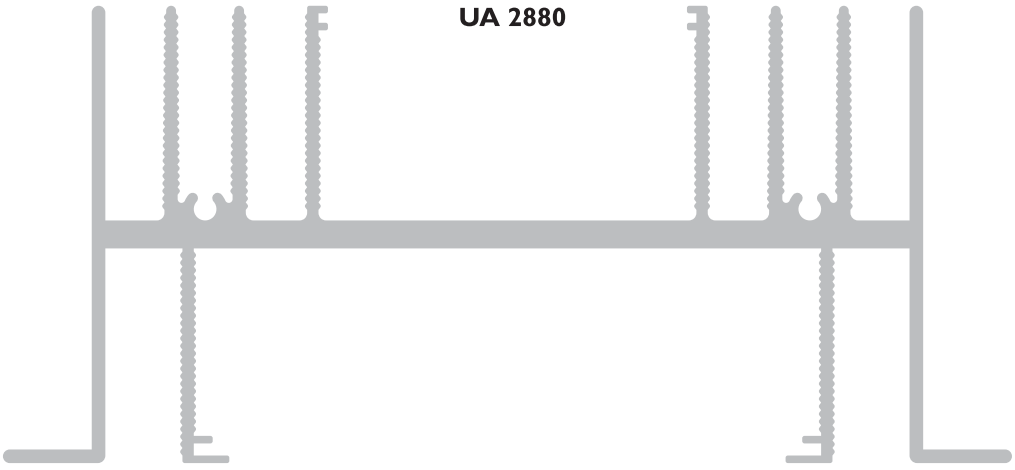
UA 4956
HEATSINK
kg/m 4.471 P 820
OAD 80 x 53.5

UA 4979
HEATSINK
kg/m 4.509 P 1166
OAD 100 x 48

UA 4956



UA 2880



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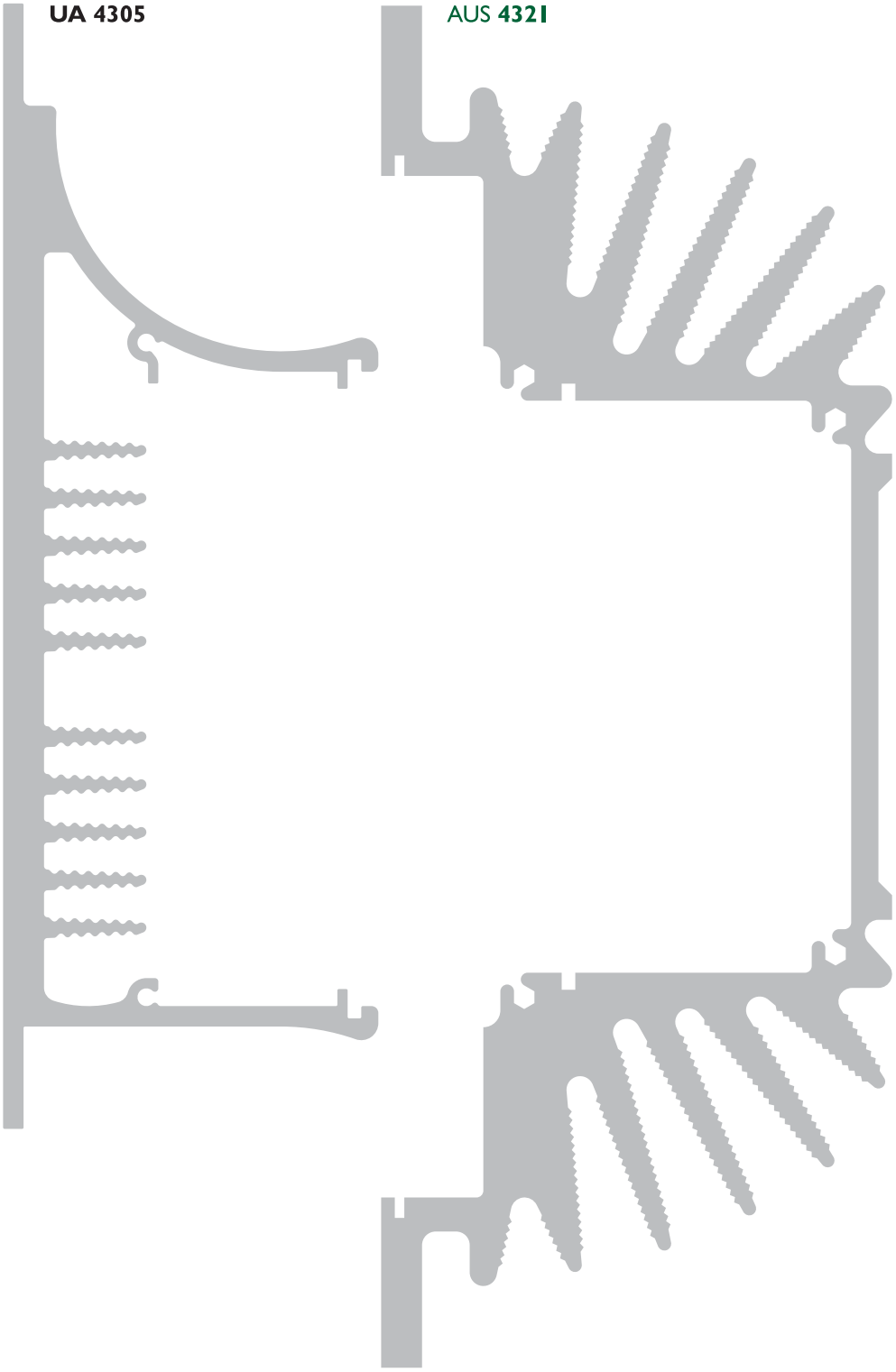
UA 4305
HEATSINK
kg/m 4.381 P 919
OAD 165 x 55

AUS **4321**
HEATSINK
kg/m 8.675 P 1292
OAD 200 x 75

UA 4305

AUS **4321**



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DIE No	DESCRIPTION
UA 1063	FRAME
UA 1064	FRAME
UA 1065	BLADE
UA 1089	BLADE
UA 1368	BLADE
UA 1572	BLADE
UA 1661	BLADE
UA 1902	BLADE
UA 1903	FRAME
UA 1904	FRAME
UA 1913	FRAME
UA 2879	BLADE
UA 2885	FRAME
UA 3101	BLADE
UA 3102	BLADE
UA 3164	BLADE
UA 3414	BLADE
UA 3431	FRAME
UA 3442	WEATHER BAR
UA 3653	BLADE
UA 4085	BLADE
UA 4133	CHANNEL
UA 4134	CHANNEL LID
UA 4202	JOINTER
UA 4203	SILL WEATHER BAR
UA 4204	HEAD WEATHER BAR
UA 4205	EXTENSION
UA 4206	FINNED JOINTER
UA 4230	TORSION BAR
UA 4231	BLADE
UA 4609	BLADE
UA 5018	BLADE
UA 5022	FIXED BLADE
UA 5032	BRACKET
UA 5033	SUN BLADE
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

DIE No	DESCRIPTION
AUS 5800	BEAD
AUS 5801	MULLION
AUS 5802	HEAD JAMB
AUS 5803	SILL
AUS 5804	HEAD ADAPTOR
AUS 5805	BEAD
UA 6401	BLADE
UA 6430	65mm 2-PIECE SQUARE
AUS 6445	120mm SNAP IN
AUS 6446	120mm HEAD
AUS 6447	120mm JAMB
AUS 6448	120mm JAMB
AUS 6449	50mm FRAME No.2
AUS 6450	50mm FRAME No.1
AUS 6485	MULLION
AUS 6488	SCREEN STAND OUT
UA 6526	BLADE
UA 6758	BLADE
UA 6856	BLADE PANEL
UA 6860	BLADE
UA 6876	BLADE
UA 7198	BLADE
UA 7425	BLADE
UA 7452	BLADE
UA 7461	BRACKET
UA 7613	BLADE PANEL
UA 7694	BLADE PANEL
UA 7773	BLADE PANEL
UA 7774	BLADE CHANNEL
UA 7788	BLADE PANEL
AUS 8029	BLADE
AUS 8422	LOUVRE CHANNEL
AUS 10018	BLADE
AUS 10102	BLADE
AUS 10523	BRACKET

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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.

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

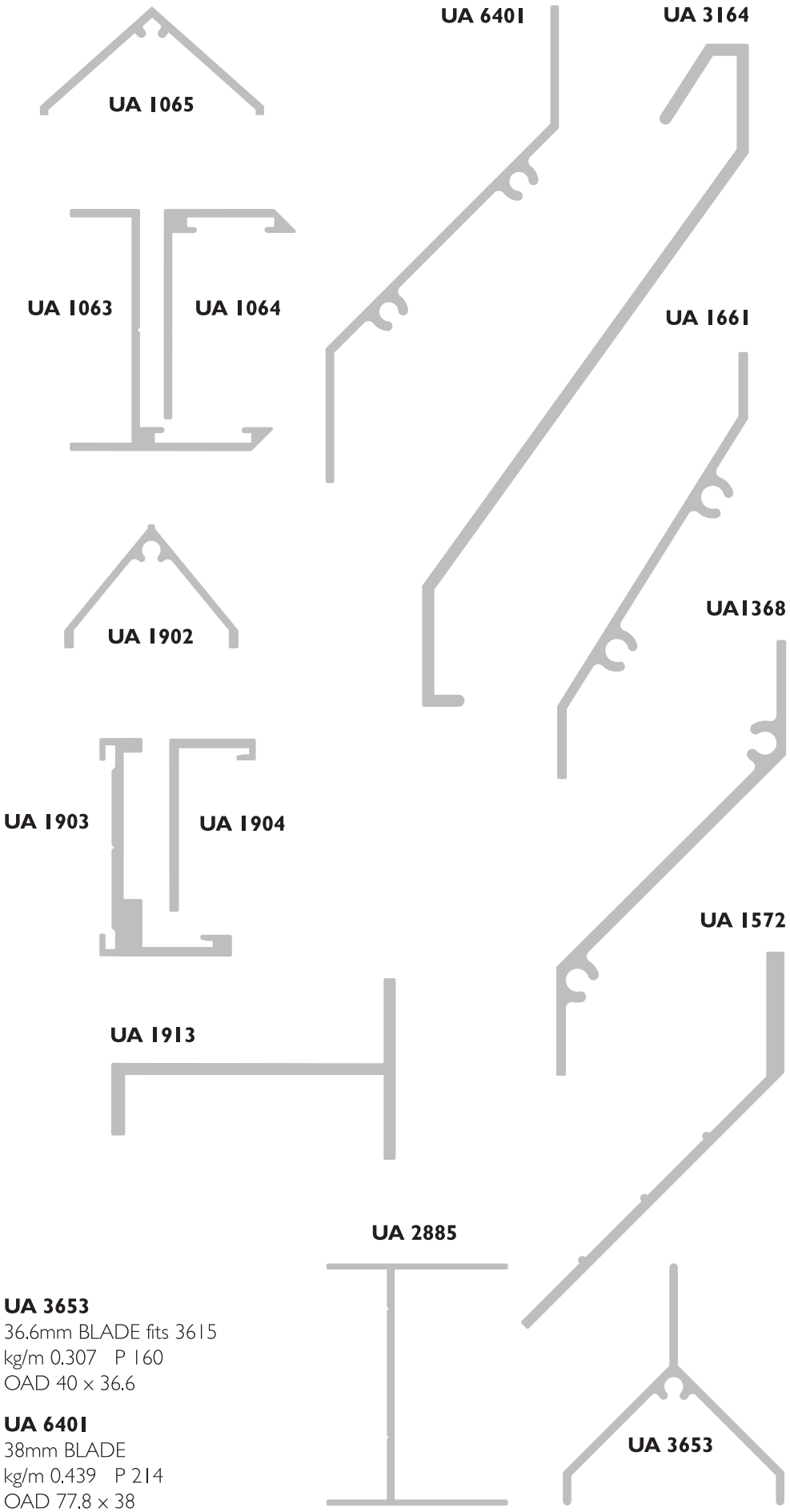
UA 1913
42mm FRAME
kg/m 0.467 P 174
OAD 47 x 30

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 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



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OAD = OVERALL DIMENSIONS
P = EXT PERIPHERY

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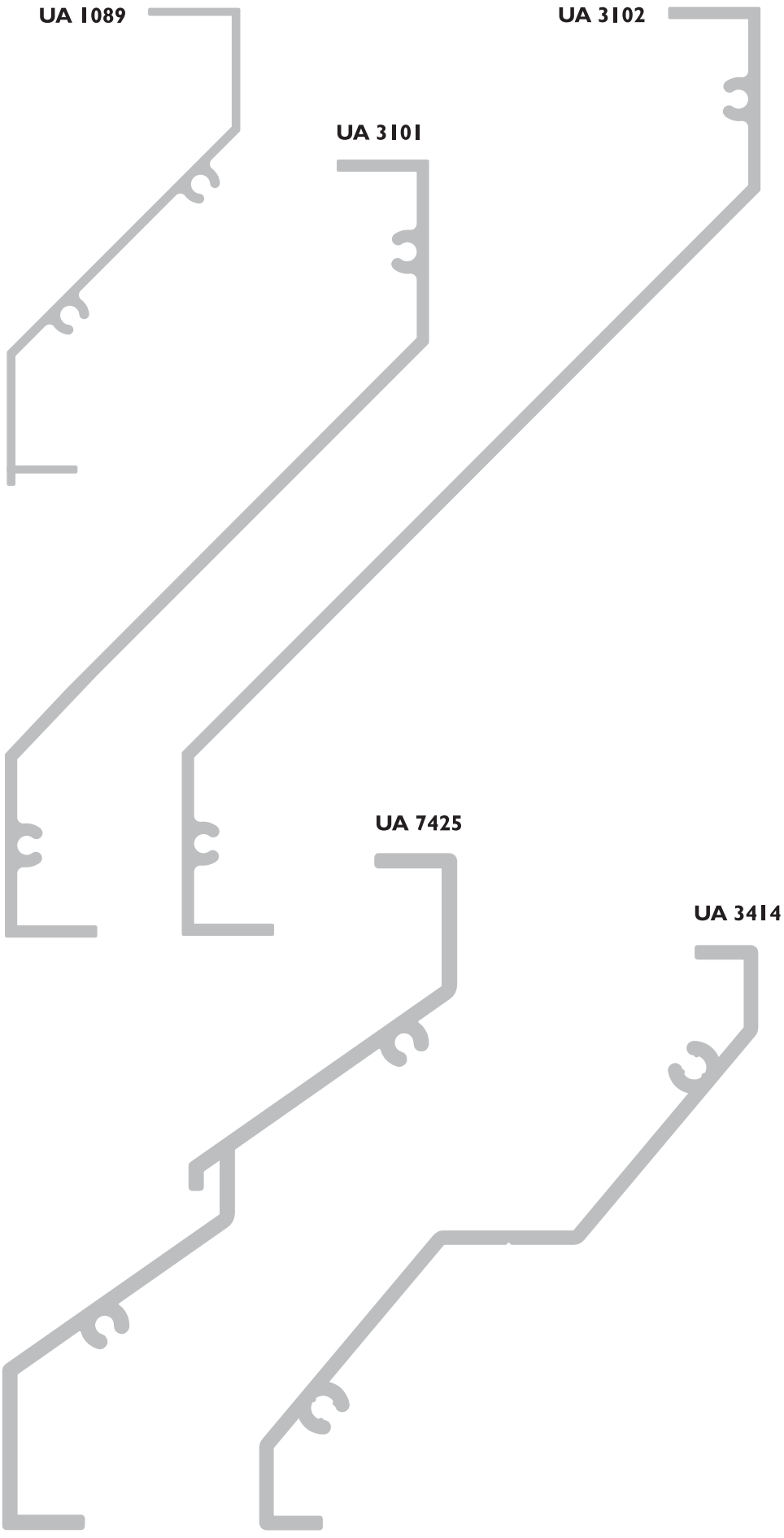

UA 1089
38mm BLADE fits 2885
kg/m 0.522 P 261
OAD 78 x 38

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

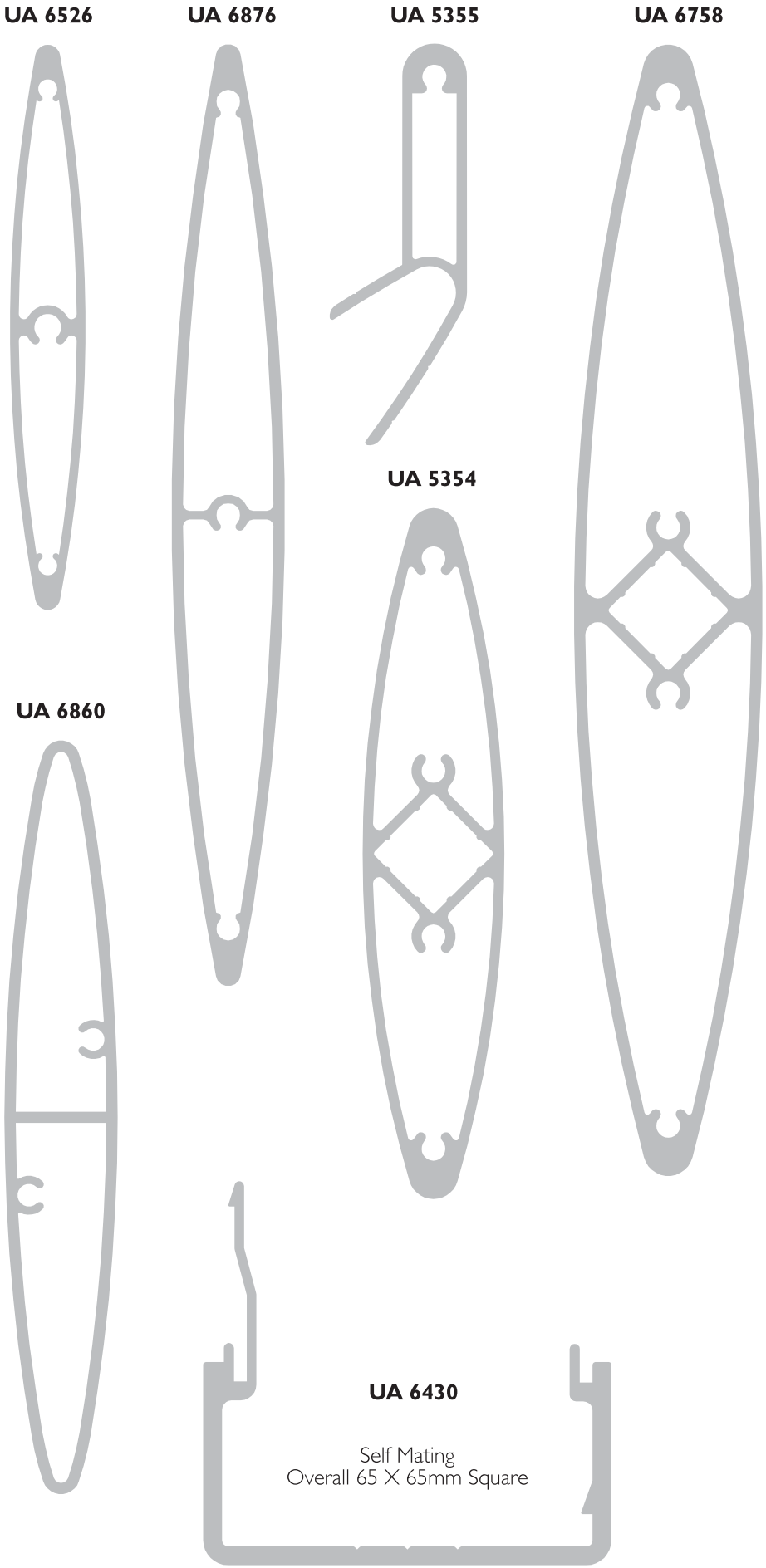
UA 6430
65 x 65mm 2-PIECE SQUARE
kg/m 1.257 P 349
OAD 65 x 61.15

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



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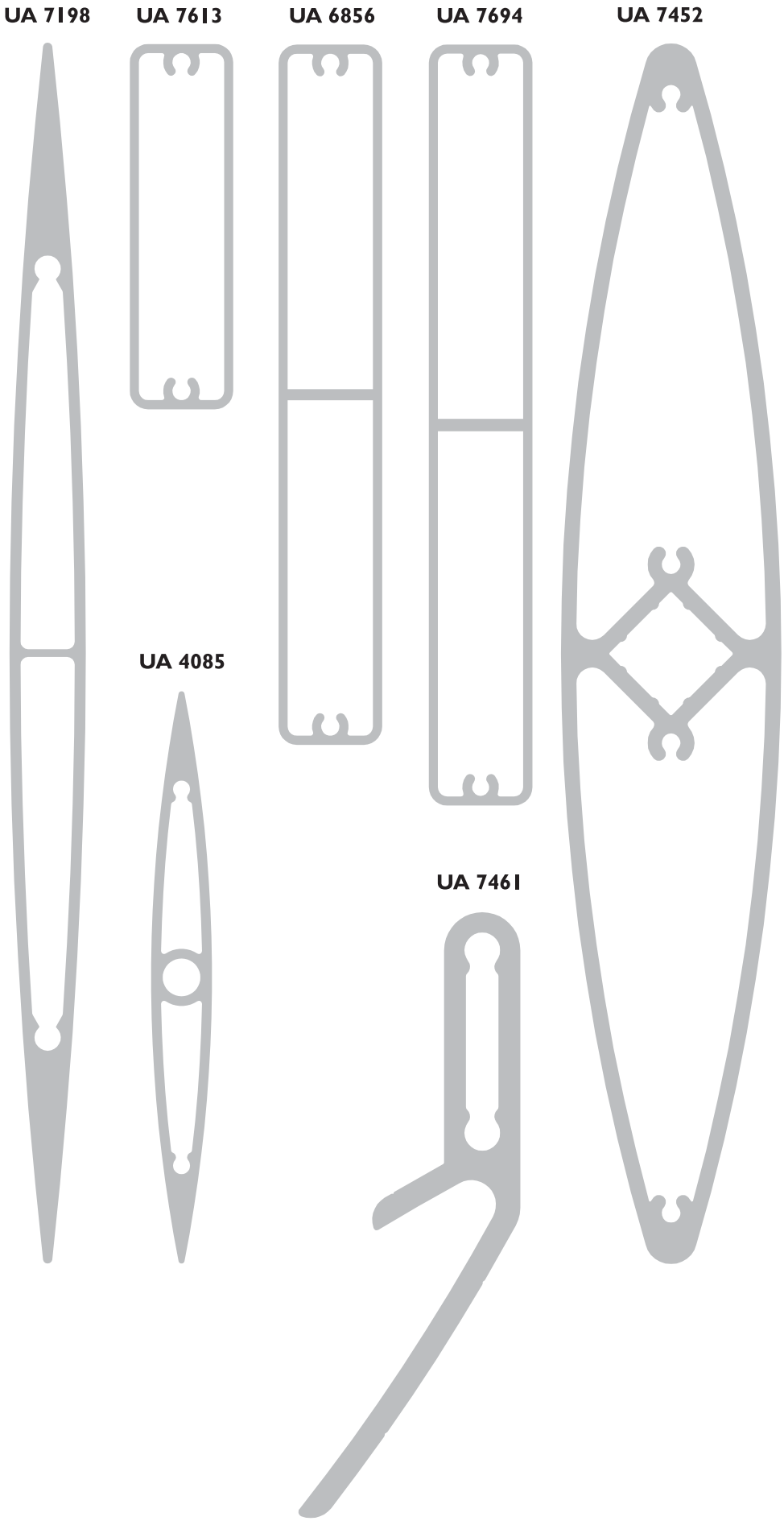

UA 4085
BLADE
kg/m 0.920 P 191
OAD 94 x 10

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

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UA 5032
BRACKET
kg/m 1.556 P 334
OAD 73.57 x 60

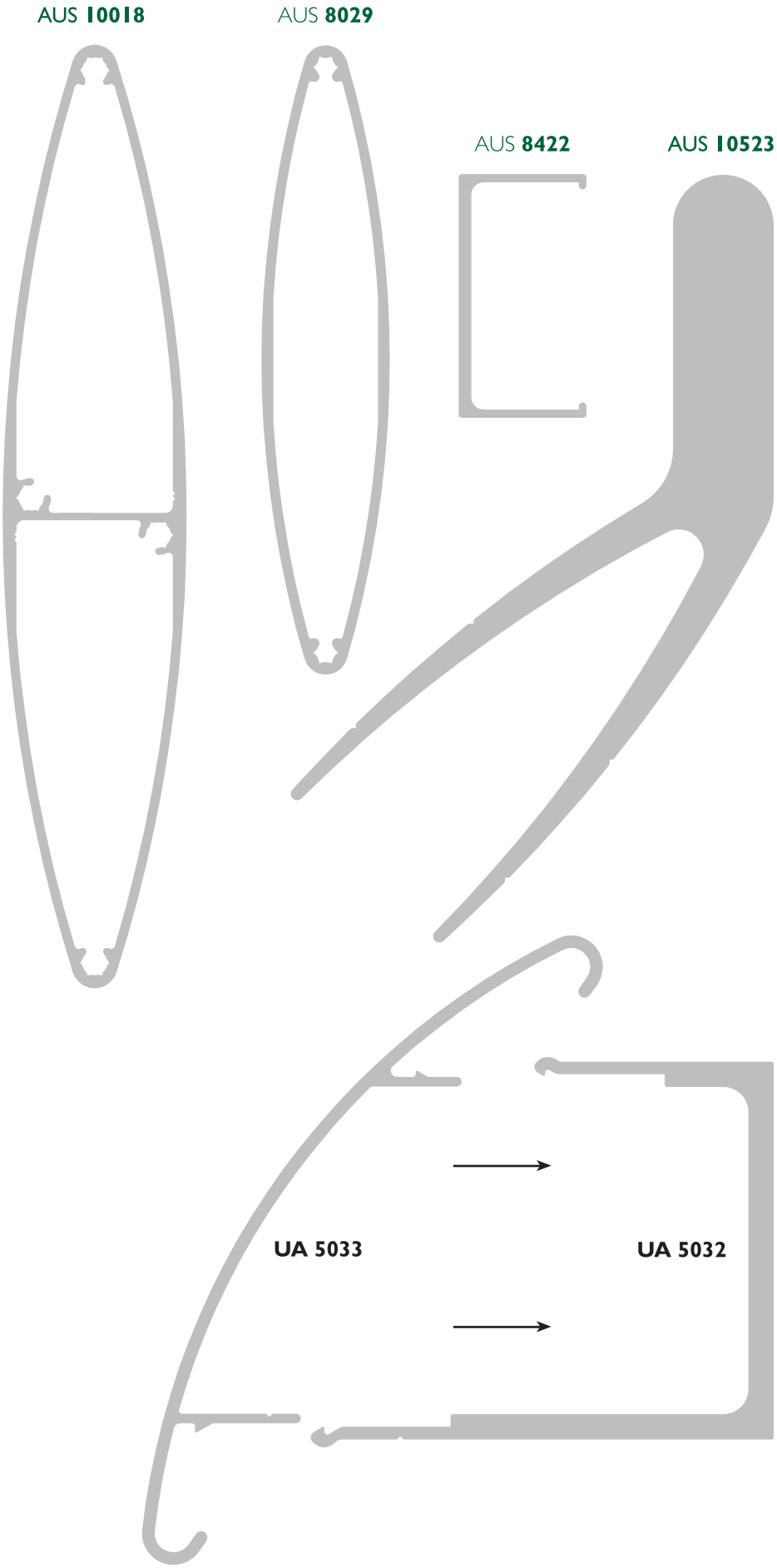
UA 5033
SUN BLADE
kg/m 0.932 P 359
OAD 100 x 73.25

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



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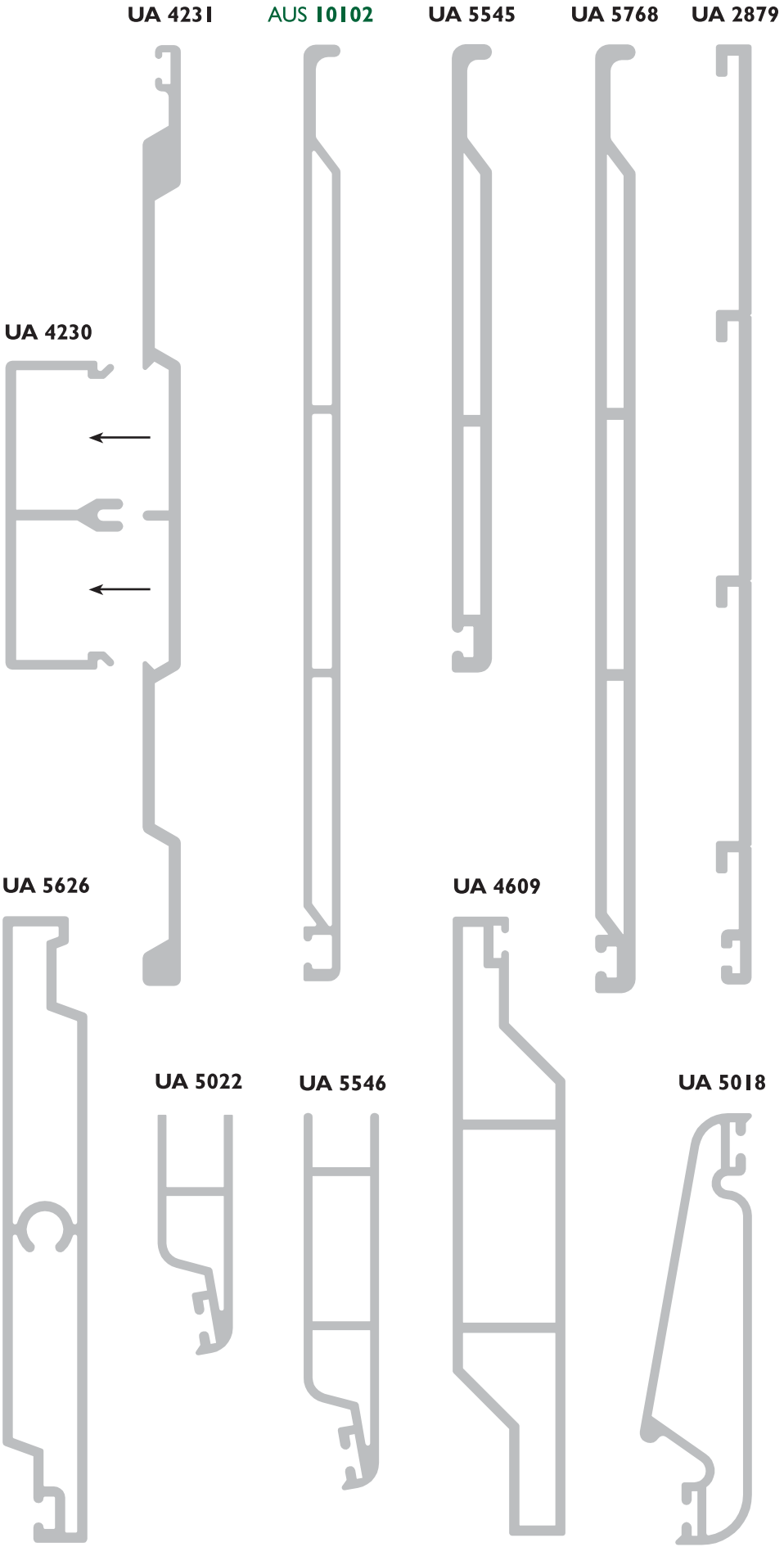

UA 2879
BLADE
kg/m 0.891 P 379
OAD 152 x 5.5

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

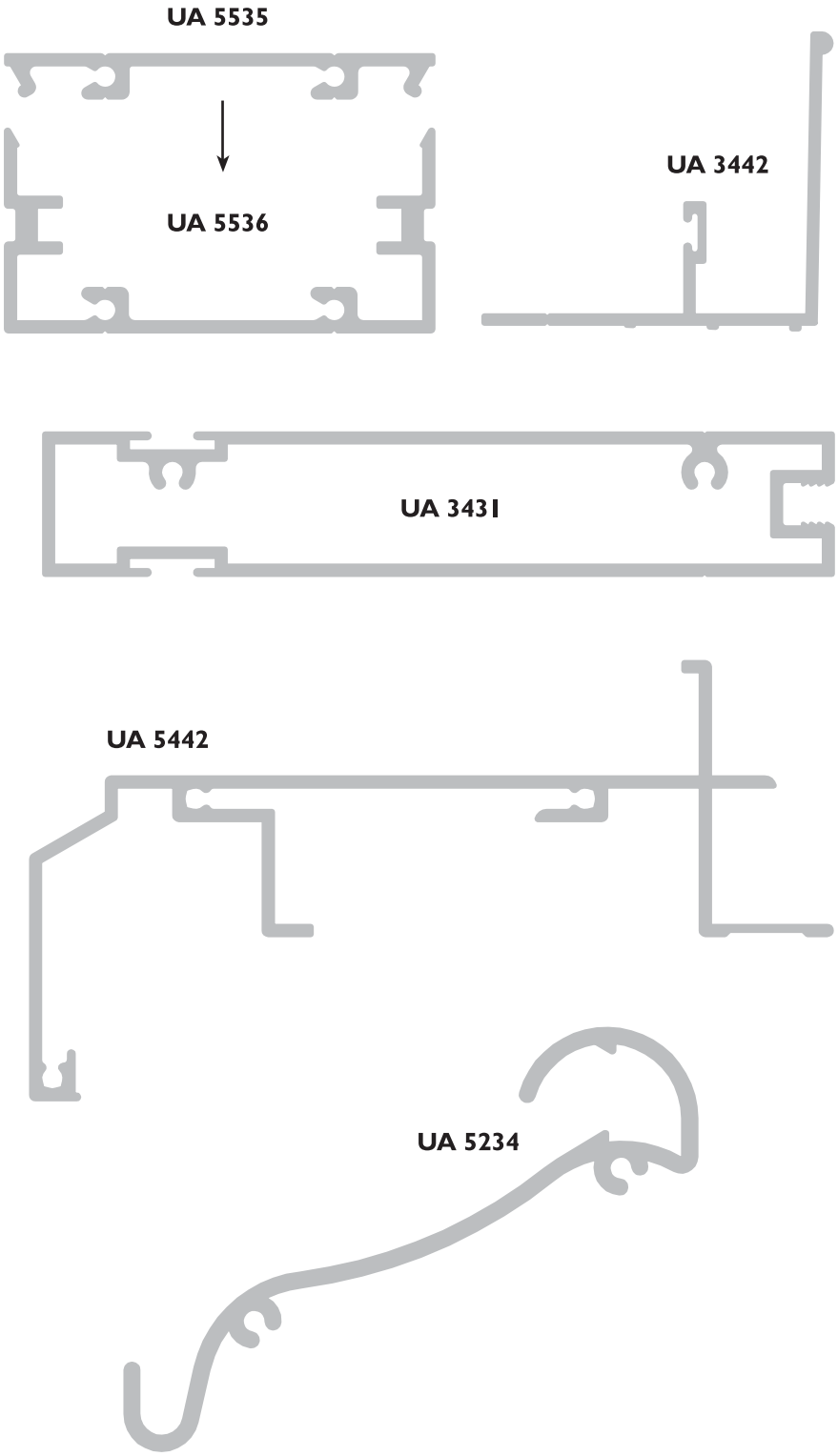
UA 3442
WEATHER BAR
kg/m 0.437 P 220
OAD 48.74 x 41.49

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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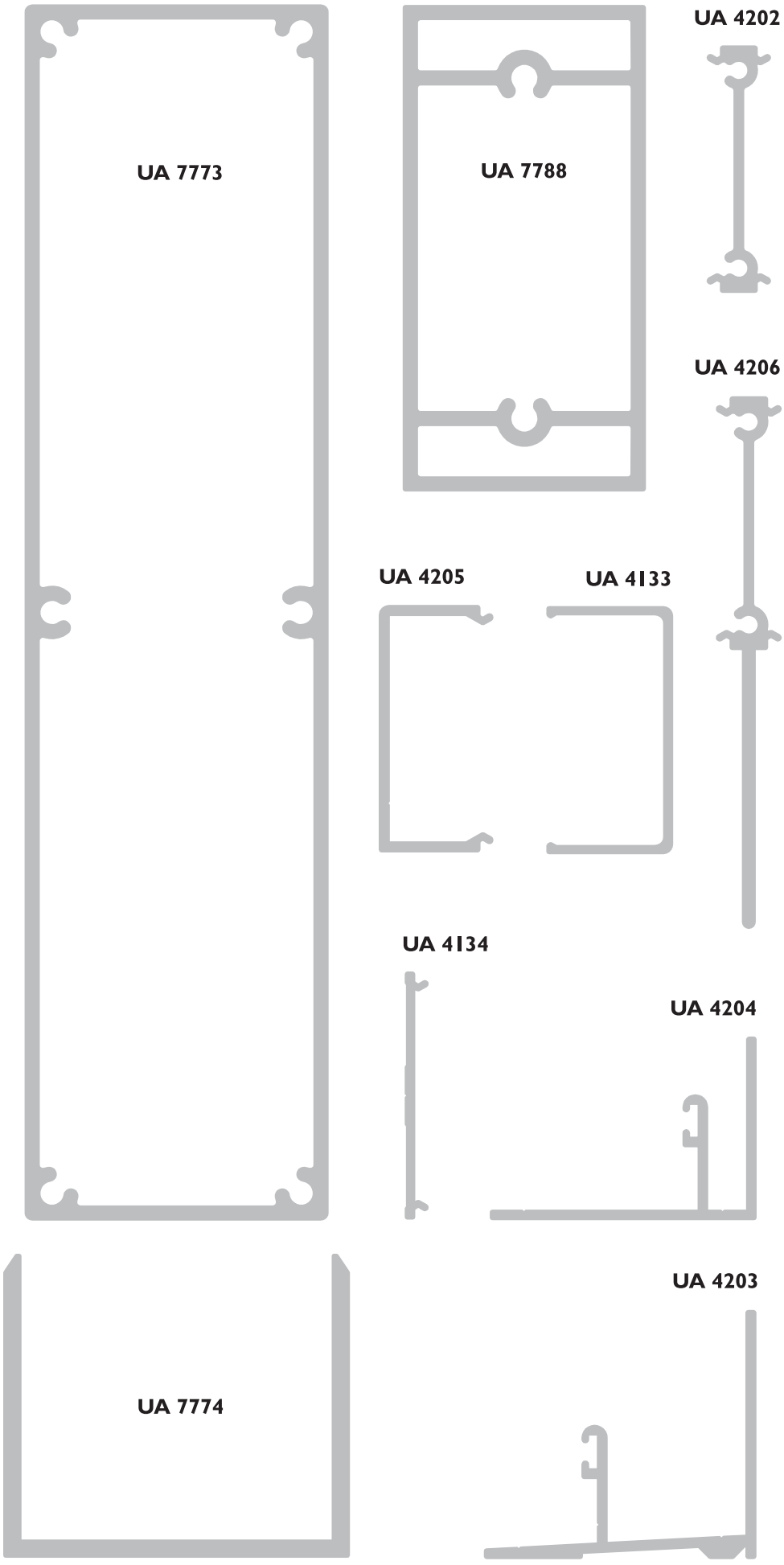

UA 4133
CHANNEL
kg/m 0.292 P 160
OAD 40.75 x 20.7

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 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
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 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

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AUS 6445
120mm SNAP IN
kg/m 0.159 P 100
OAD 19 x 16.3

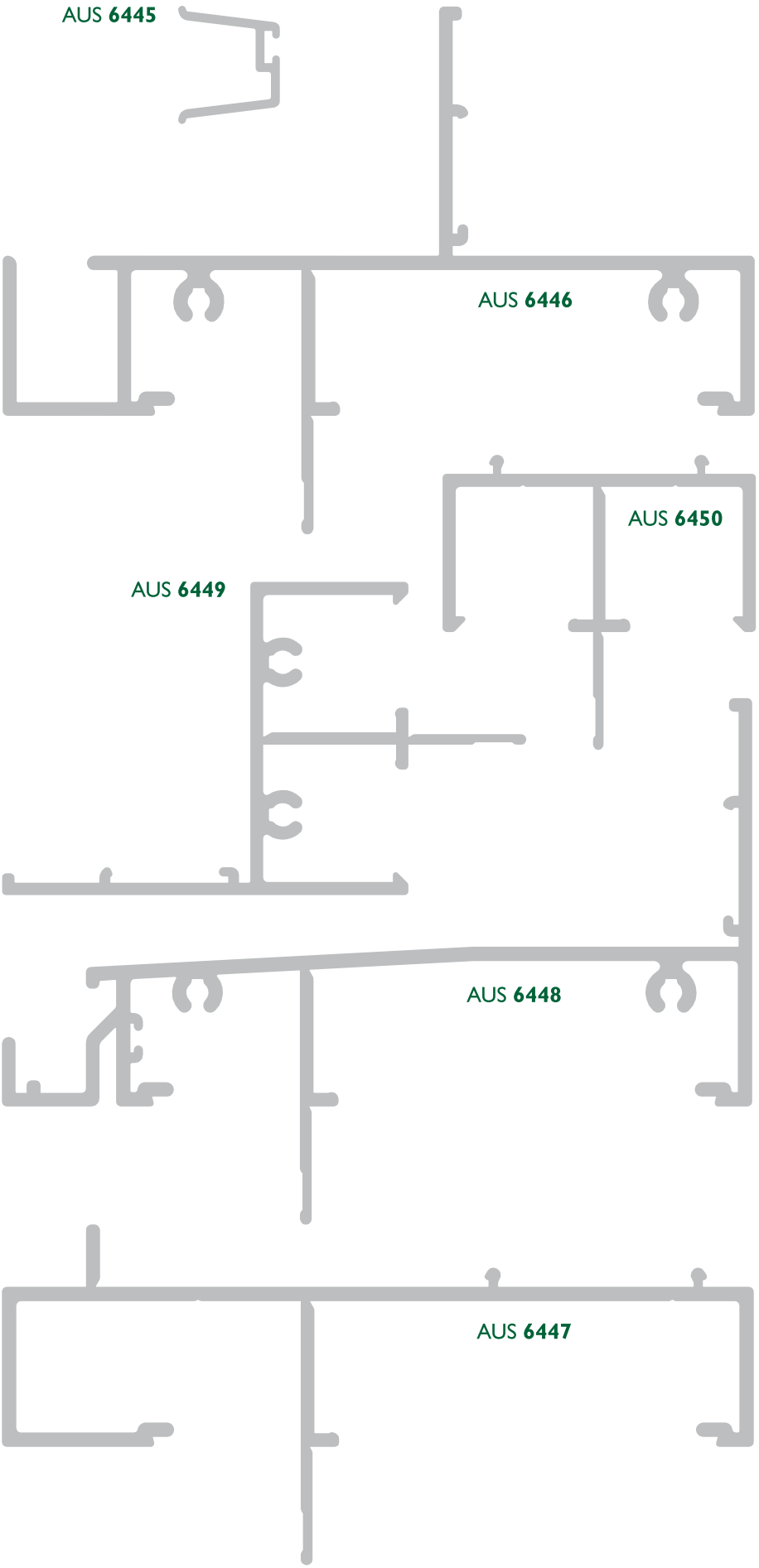
AUS 6446
120mm HEAD
kg/m 1.406 P 671
OAD 120 x 84

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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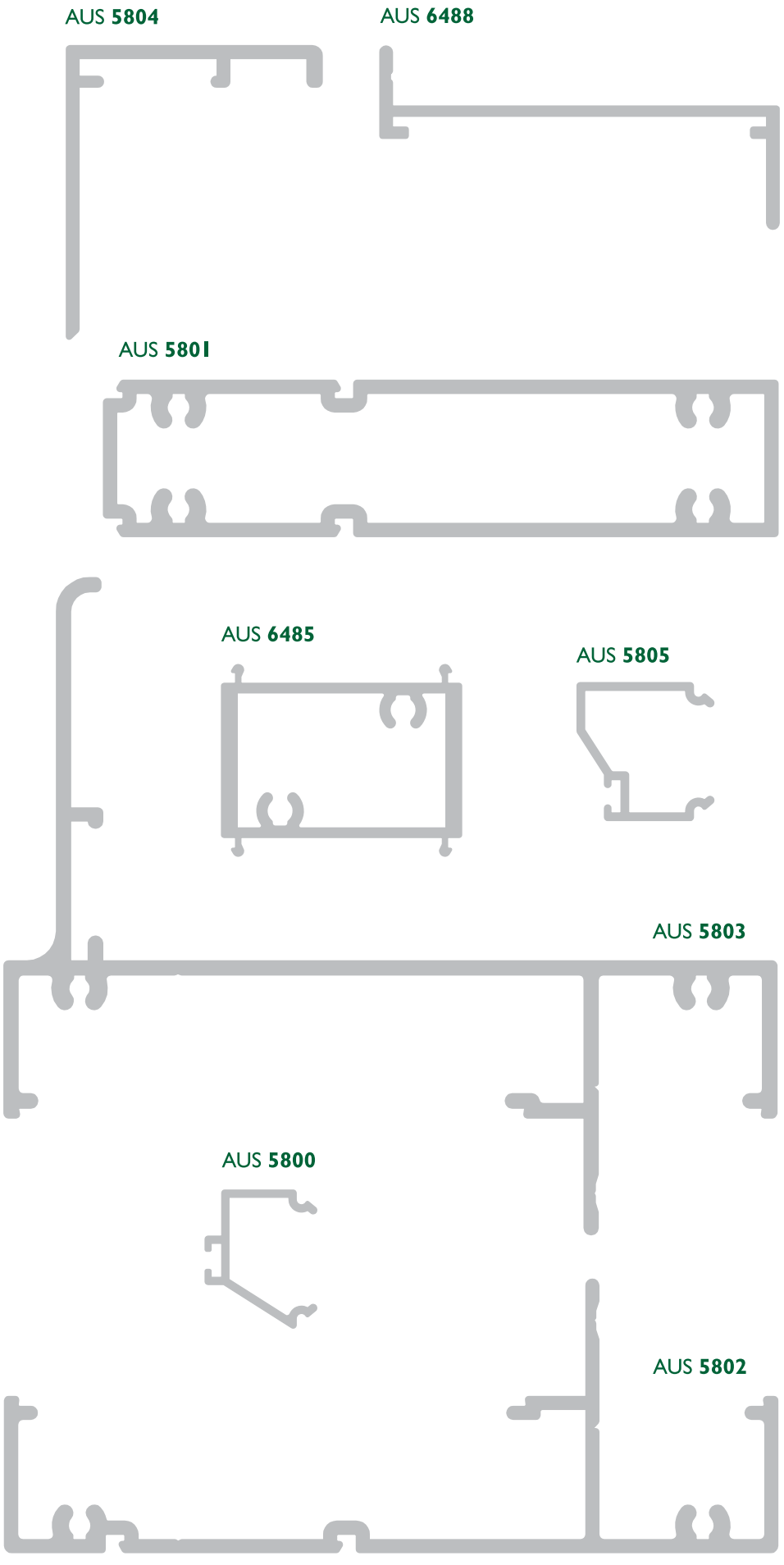

AUS 5800
BEAD
kg/m 0.186 P 116
OAD 22.5 x 18.2

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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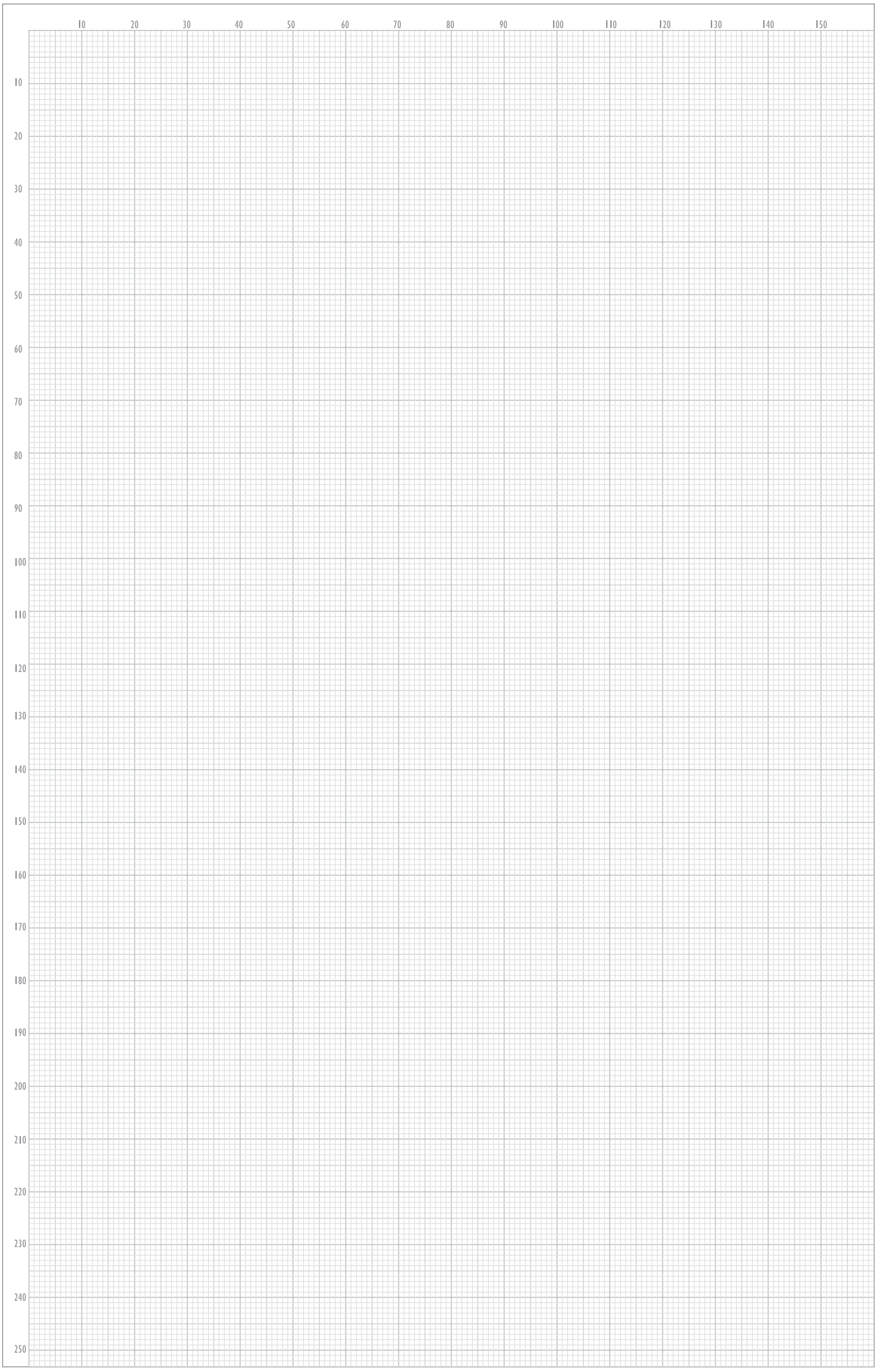
PLANNING GRID AND NOTES



DIE No	DESCRIPTION
UA 1063	FRAME
UA 1064	FRAME
UA 1065	BLADE
UA 1089	BLADE
UA 1368	BLADE
UA 1572	BLADE
UA 1661	BLADE
UA 1902	BLADE
UA 1903	FRAME
UA 1904	FRAME
UA 1913	FRAME
UA 2879	BLADE
UA 2885	FRAME
UA 3101	BLADE
UA 3102	BLADE
UA 3164	BLADE
UA 3414	BLADE
UA 3431	FRAME
UA 3442	WEATHER BAR
UA 3653	BLADE
UA 4085	BLADE
UA 4133	CHANNEL
UA 4134	CHANNEL LID
UA 4202	JOINTER
UA 4203	SILL WEATHER BAR
UA 4204	HEAD WEATHER BAR
UA 4205	EXTENSION
UA 4206	FINNED JOINTER
UA 4230	TORSION BAR
UA 4231	BLADE
UA 4609	BLADE
UA 5018	BLADE
UA 5022	FIXED BLADE
UA 5032	BRACKET
UA 5033	SUN BLADE
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

DIE No	DESCRIPTION
AUS 5800	BEAD
AUS 5801	MULLION
AUS 5802	HEAD JAMB
AUS 5803	SILL
AUS 5804	HEAD ADAPTOR
AUS 5805	BEAD
UA 6401	BLADE
UA 6430	65mm 2-PIECE SQUARE
AUS 6445	120mm SNAP IN
AUS 6446	120mm HEAD
AUS 6447	120mm JAMB
AUS 6448	120mm JAMB
AUS 6449	50mm FRAME No.2
AUS 6450	50mm FRAME No.1
AUS 6485	MULLION
AUS 6488	SCREEN STAND OUT
UA 6526	BLADE
UA 6758	BLADE
UA 6856	BLADE PANEL
UA 6860	BLADE
UA 6876	BLADE
UA 7198	BLADE
UA 7425	BLADE
UA 7452	BLADE
UA 7461	BRACKET
UA 7613	BLADE PANEL
UA 7694	BLADE PANEL
UA 7773	BLADE PANEL
UA 7774	BLADE CHANNEL
UA 7788	BLADE PANEL
AUS 8029	BLADE
AUS 8422	LOUVRE CHANNEL
AUS 10018	BLADE
AUS 10102	BLADE
AUS 10523	BRACKET

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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

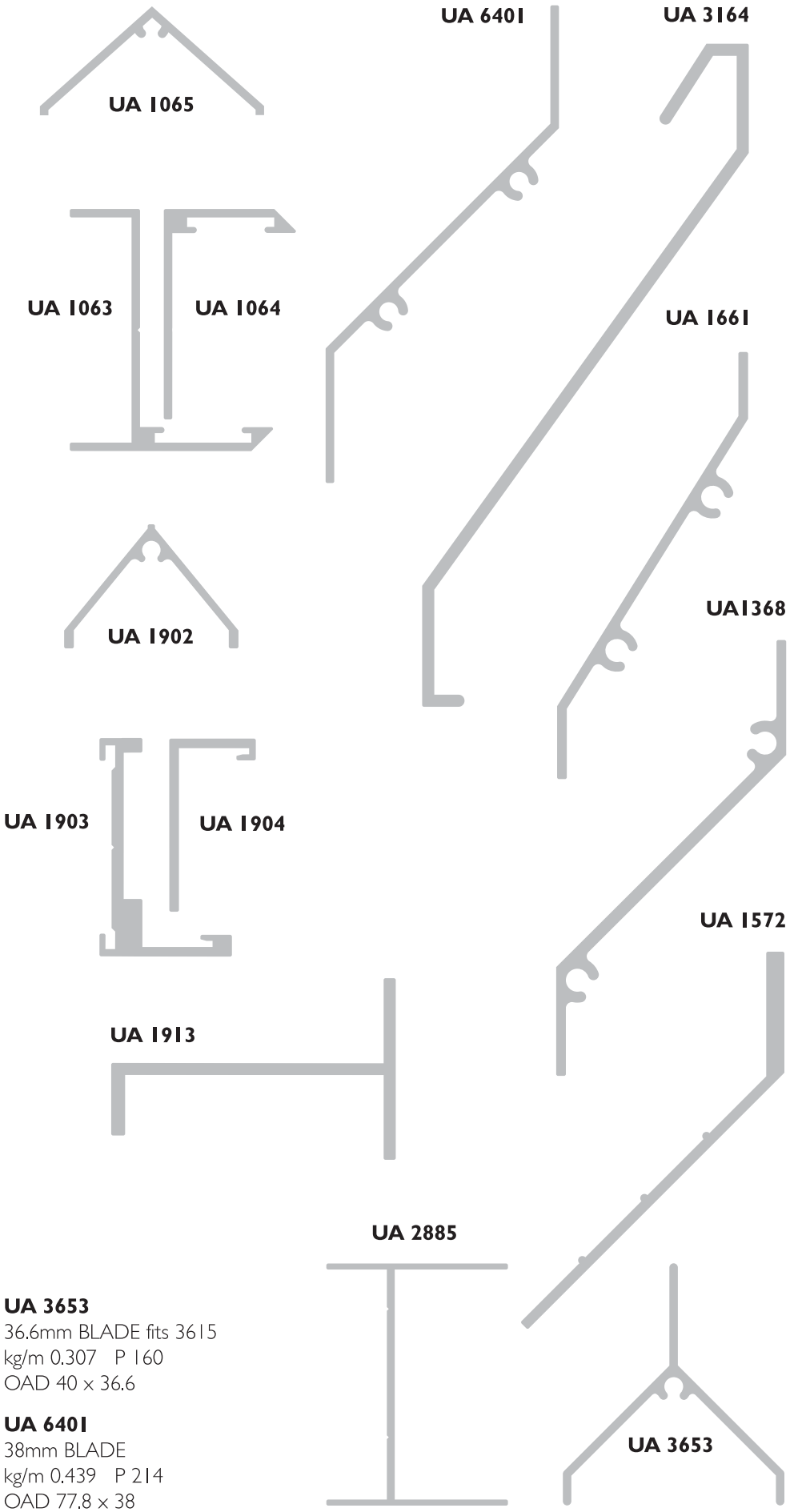
UA 1913
42mm FRAME
kg/m 0.467 P 174
OAD 47 x 30

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 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



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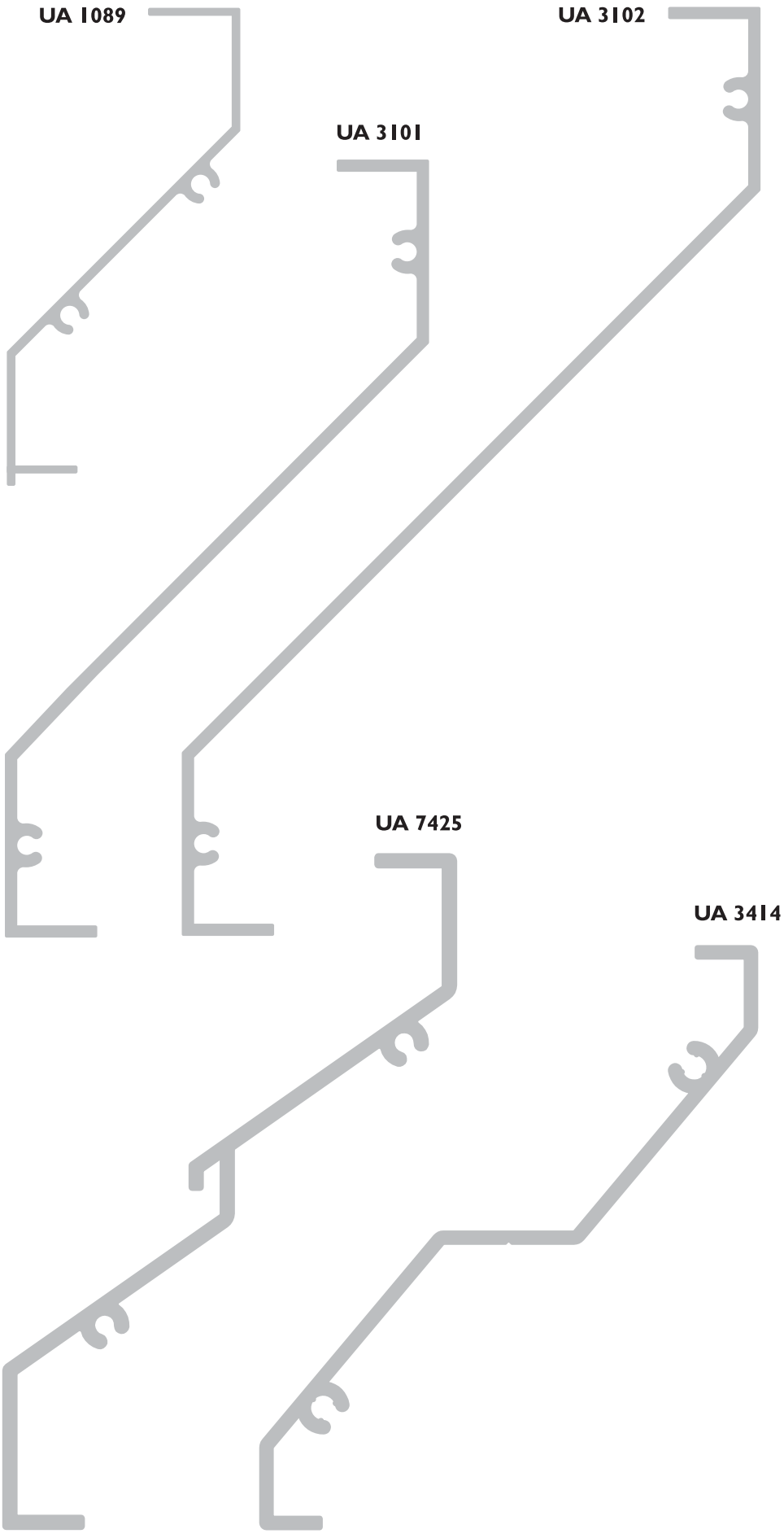

UA 1089
38mm BLADE fits 2885
kg/m 0.522 P 261
OAD 78 x 38

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

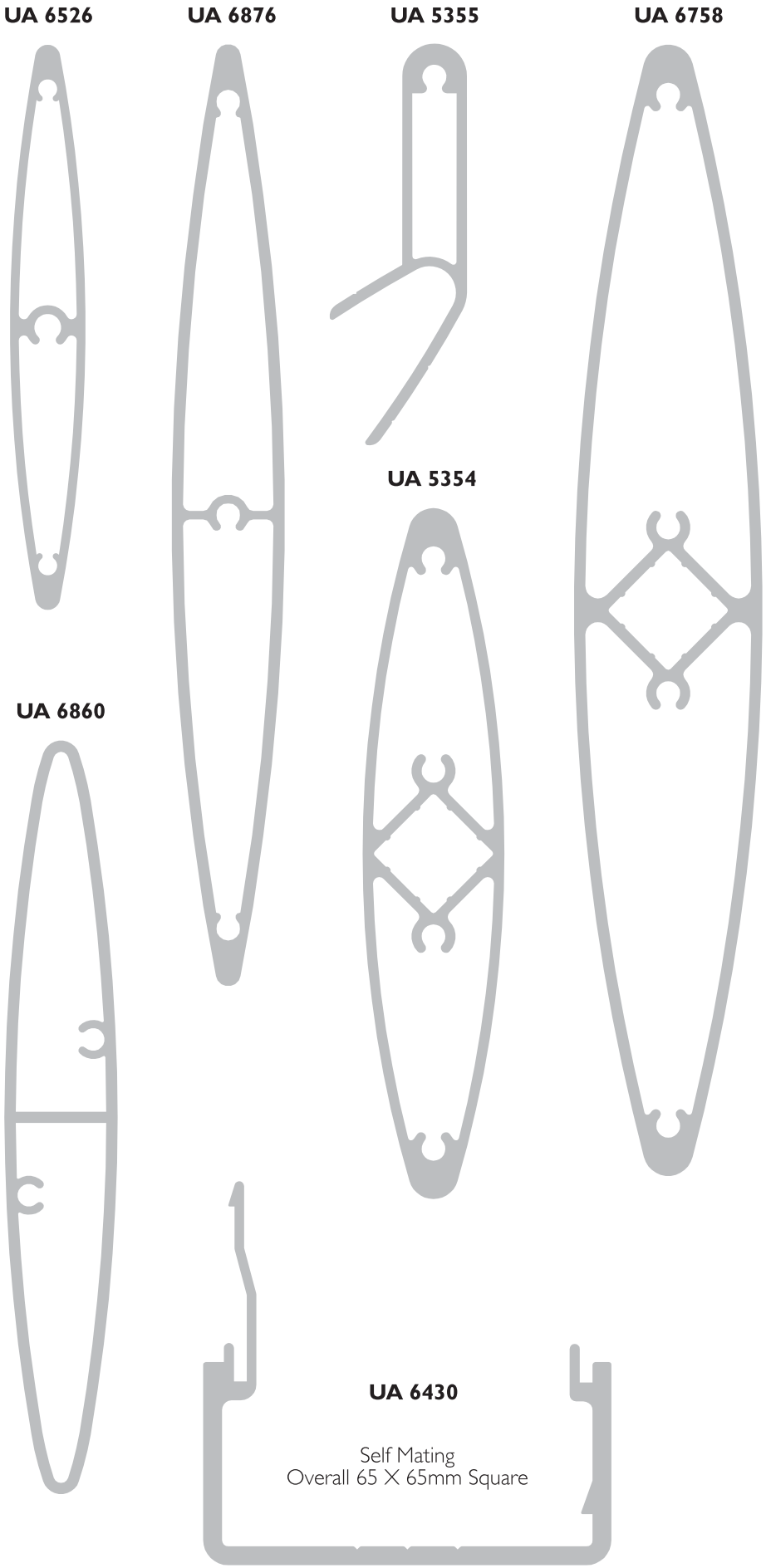
UA 6430
65 x 65mm 2-PIECE SQUARE
kg/m 1.257 P 349
OAD 65 x 61.15

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



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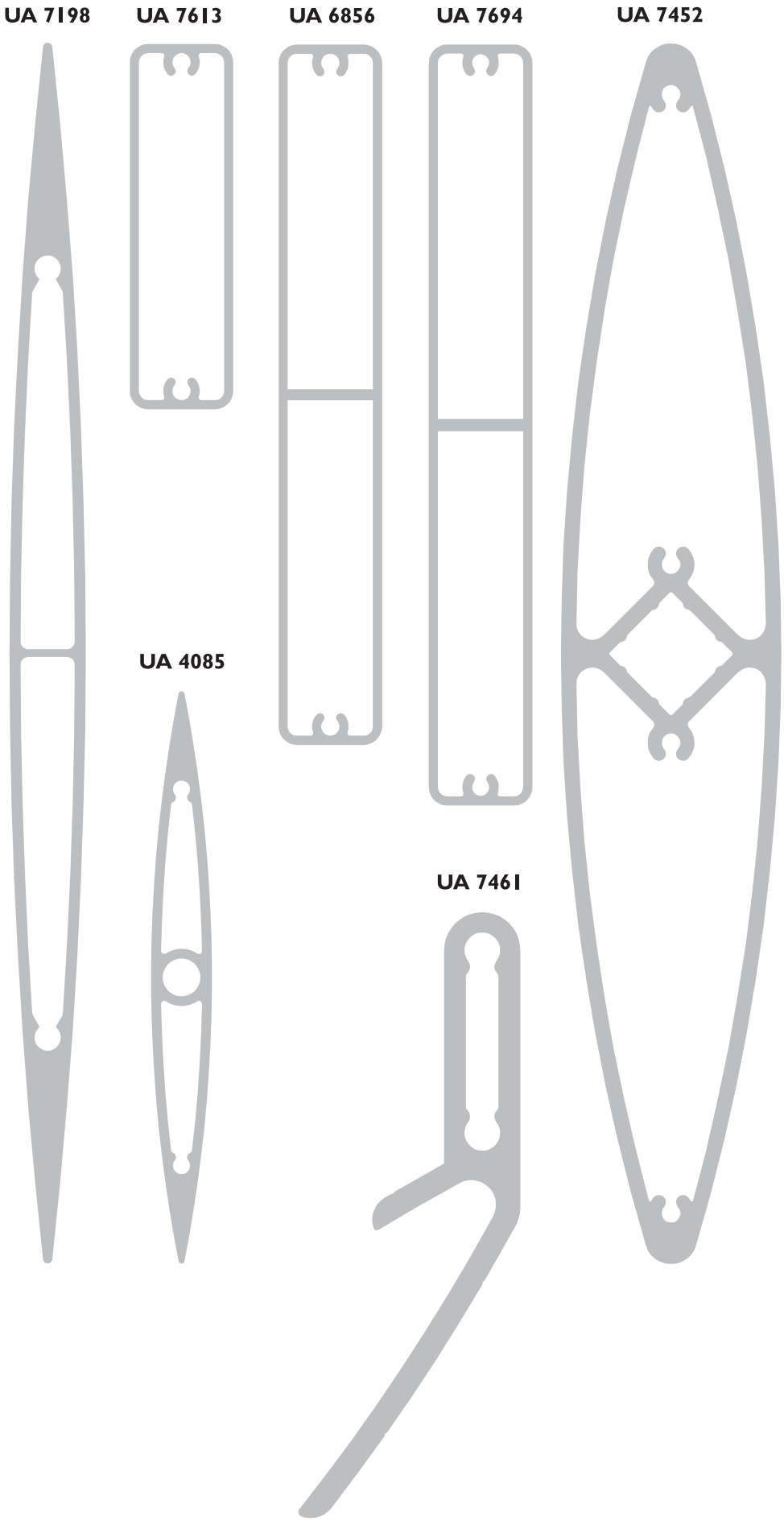

UA 4085
BLADE
kg/m 0.920 P 191
OAD 94 x 10

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

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UA 5032
BRACKET
kg/m 1.556 P 334
OAD 73.57 x 60

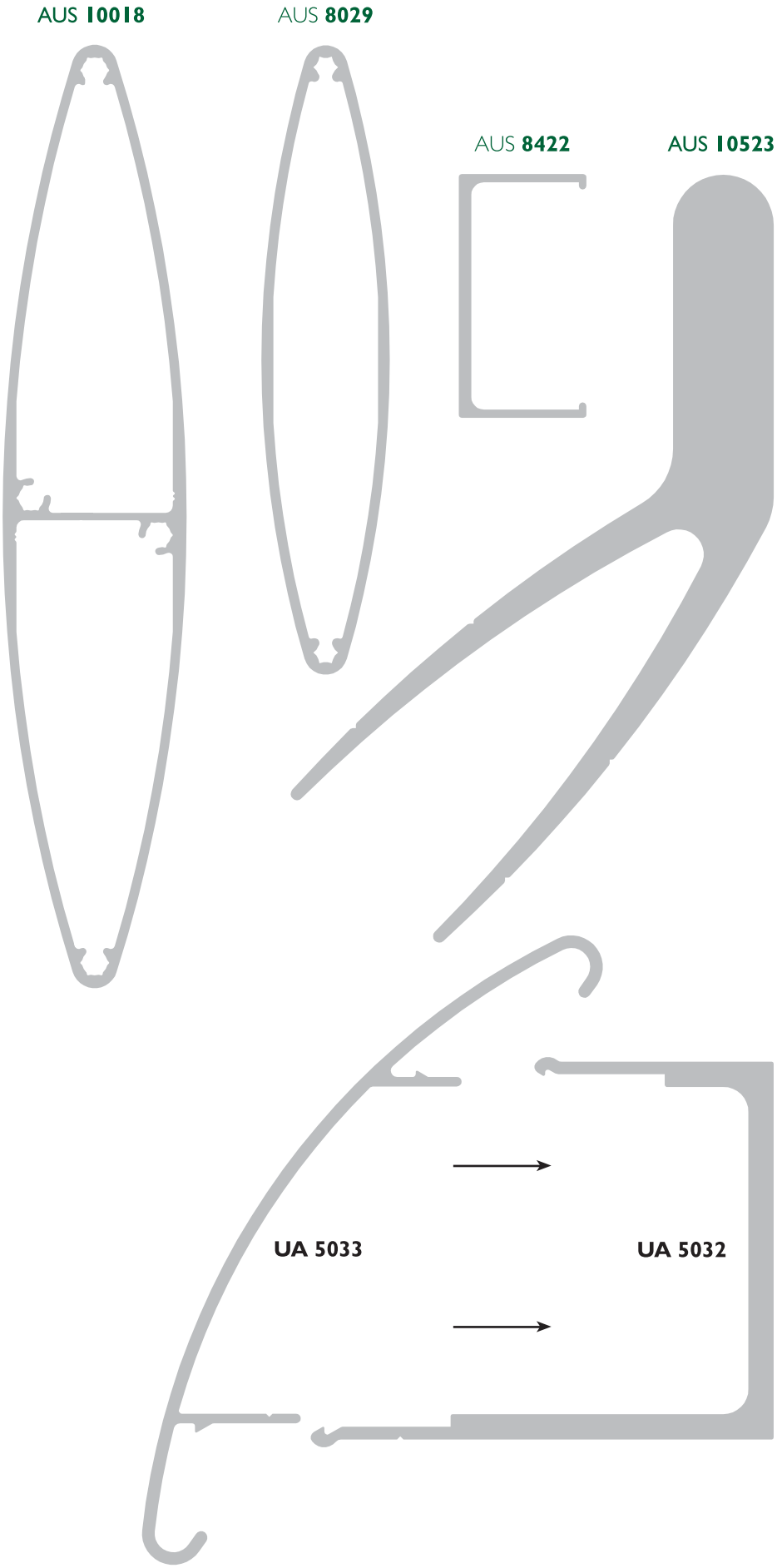
UA 5033
SUN BLADE
kg/m 0.932 P 359
OAD 100 x 73.25

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



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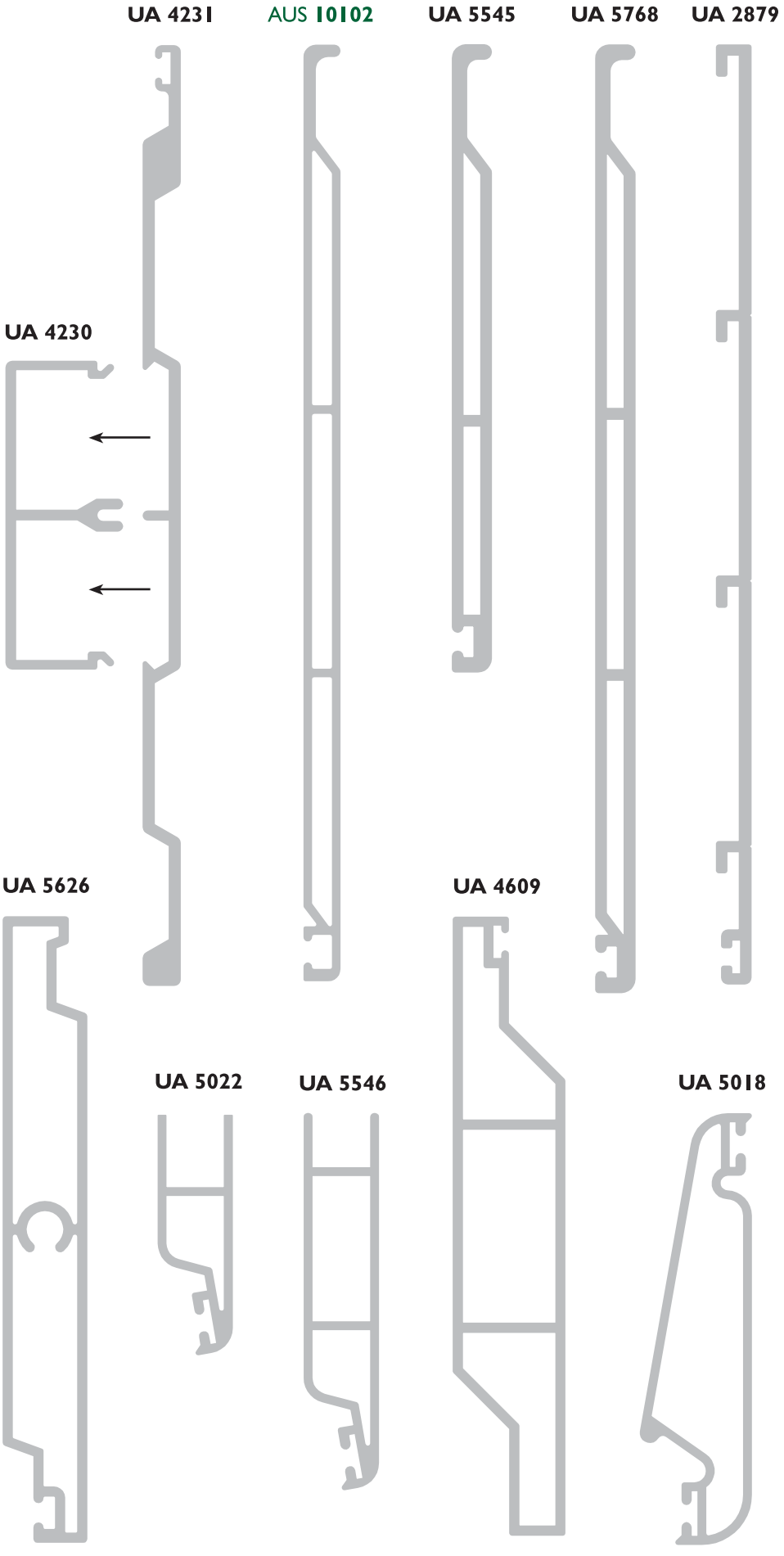

UA 2879
BLADE
kg/m 0.891 P 379
OAD 152 x 5.5

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

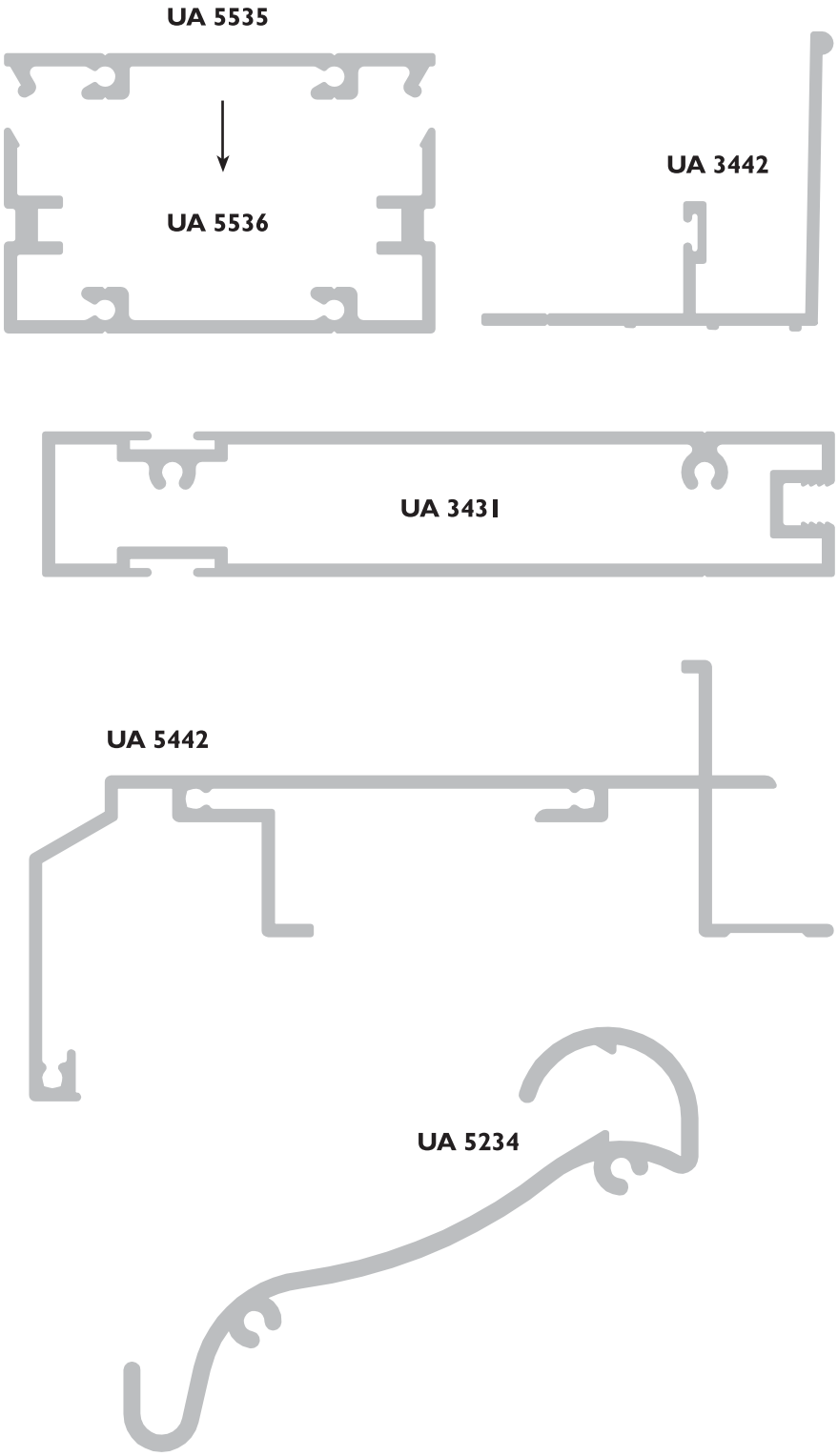
UA 3442
WEATHER BAR
kg/m 0.437 P 220
OAD 48.74 x 41.49

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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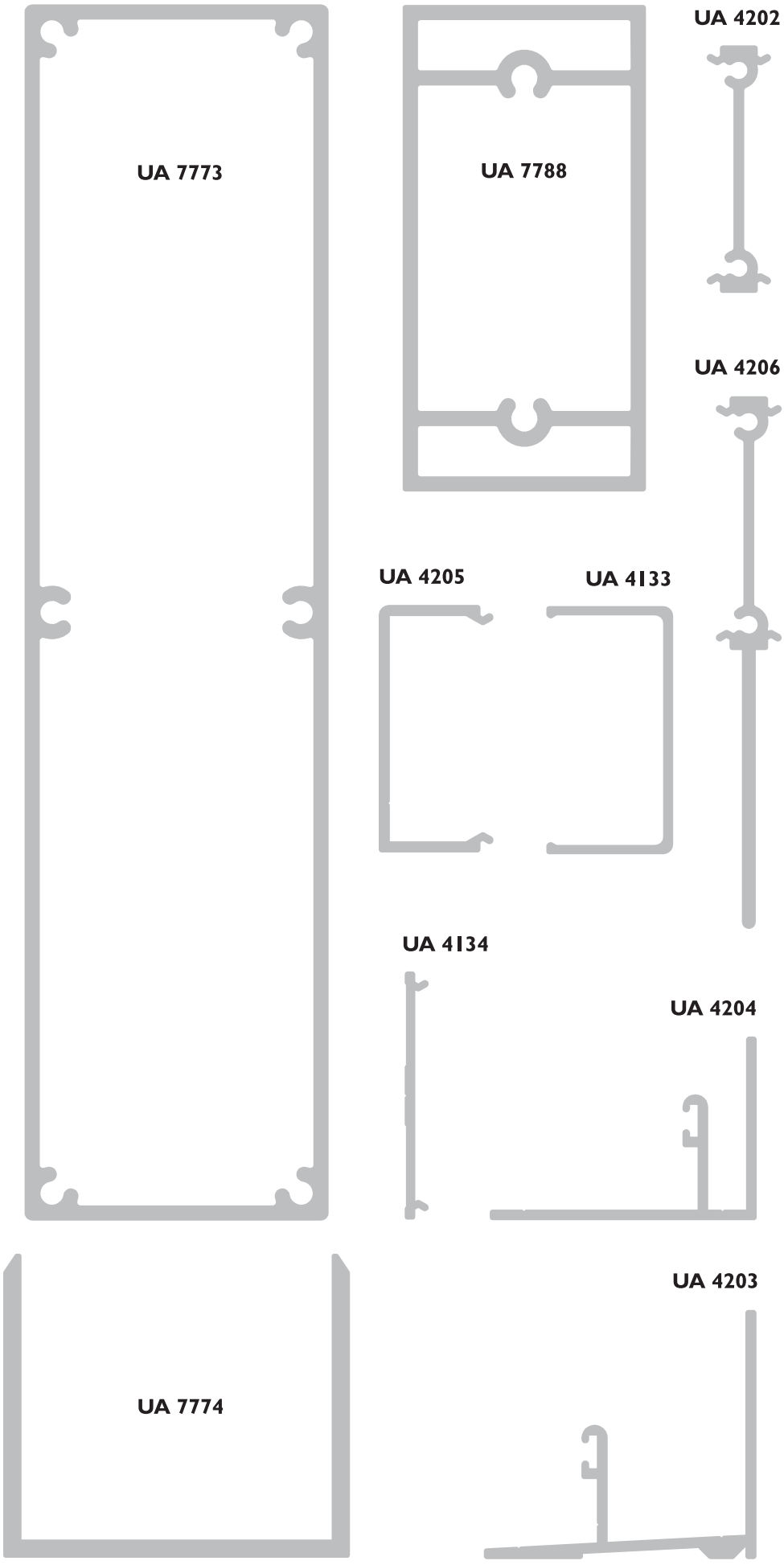

UA 4133
CHANNEL
kg/m 0.292 P 160
OAD 40.75 x 20.7

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 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
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 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

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AUS 6445
120mm SNAP IN
kg/m 0.159 P 100
OAD 19 x 16.3

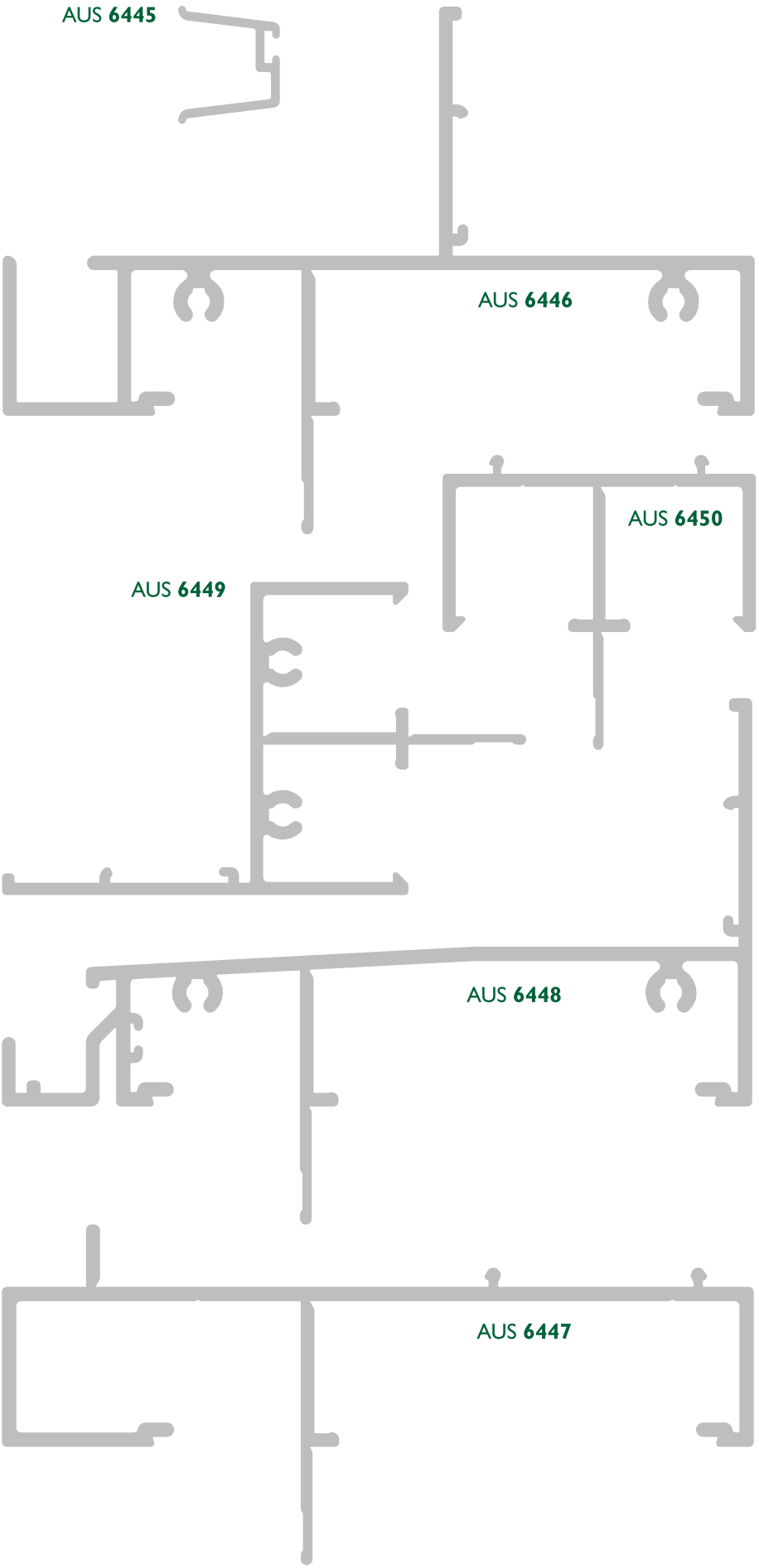
AUS 6446
120mm HEAD
kg/m 1.406 P 671
OAD 120 x 84

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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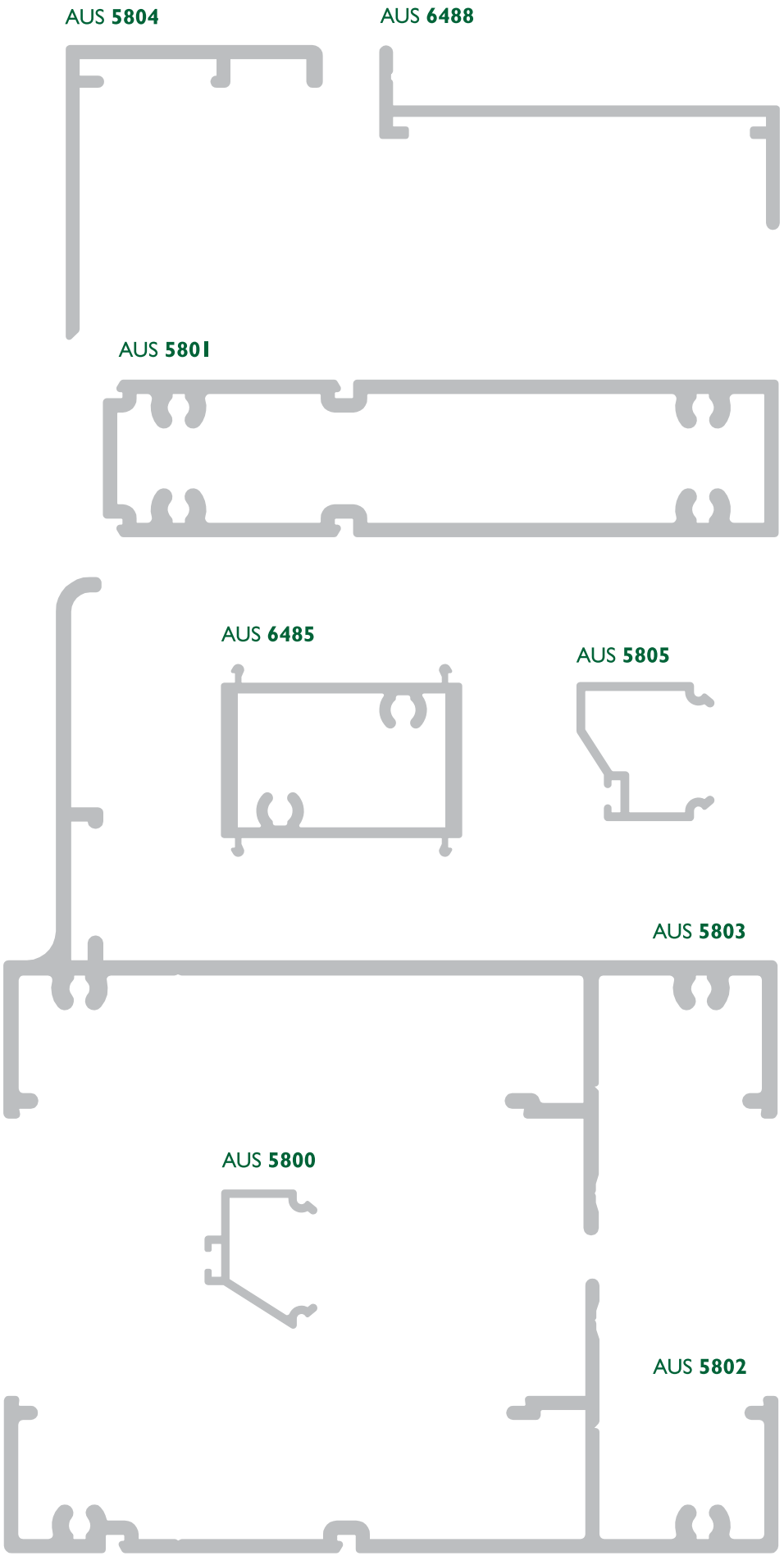

AUS 5800
BEAD
kg/m 0.186 P 116
OAD 22.5 x 18.2

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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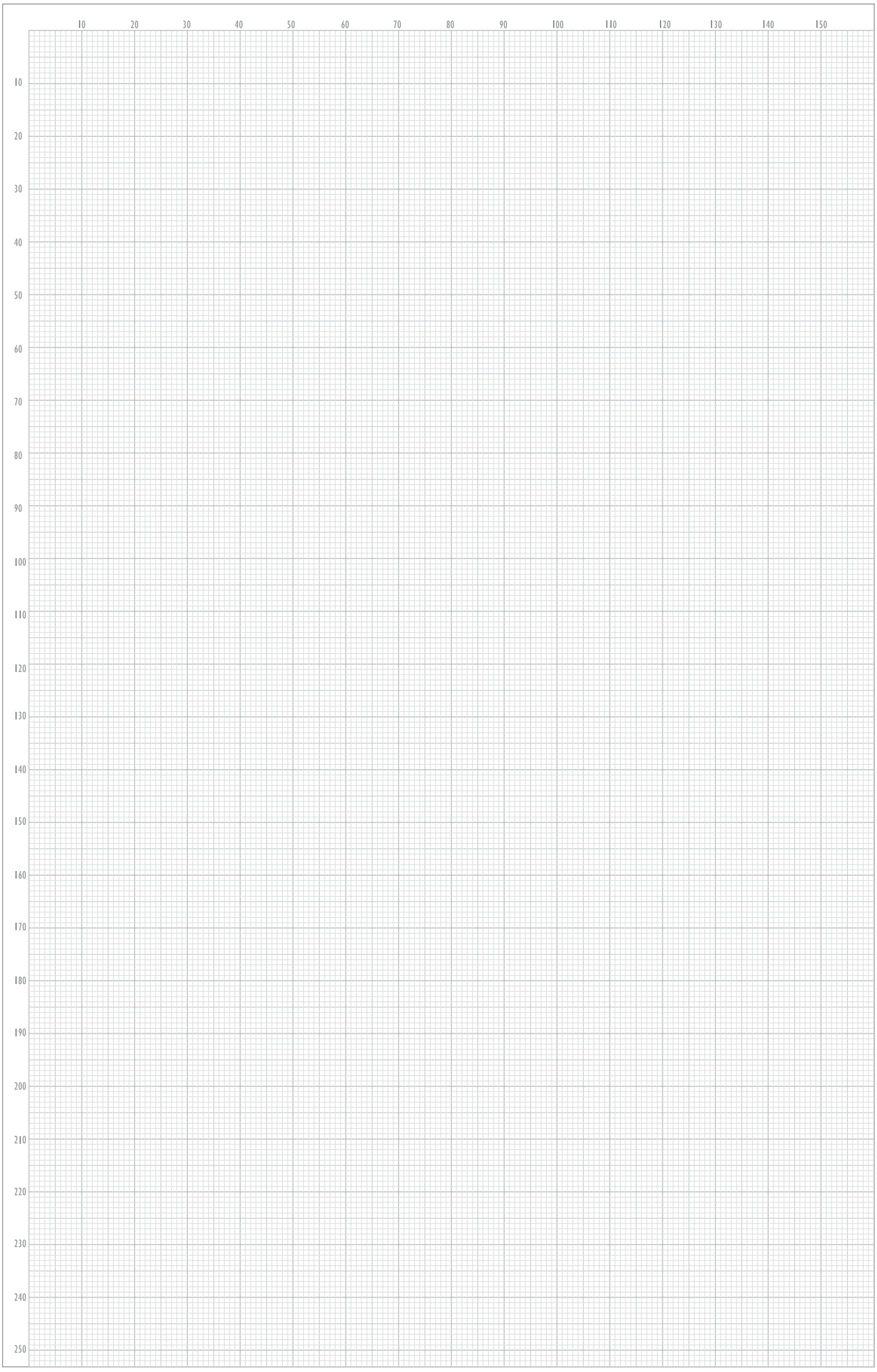
PLANNING GRID AND NOTES



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 1037
EASY DUCT LID (2C, 3C)
kg/m 0.868 P 329
OAD 136 x 10

UA 1038
EASY DUCT BASE (2C)
kg/m 1.449 P 559
OAD 136 x 41

UA 1039
EASY DUCT BASE (3C)
kg/m 1.668 P 645
OAD 136 x 41

UA 1040
CAVITY DUCT BASE
kg/m 0.949 P 432
OAD 84 x 44

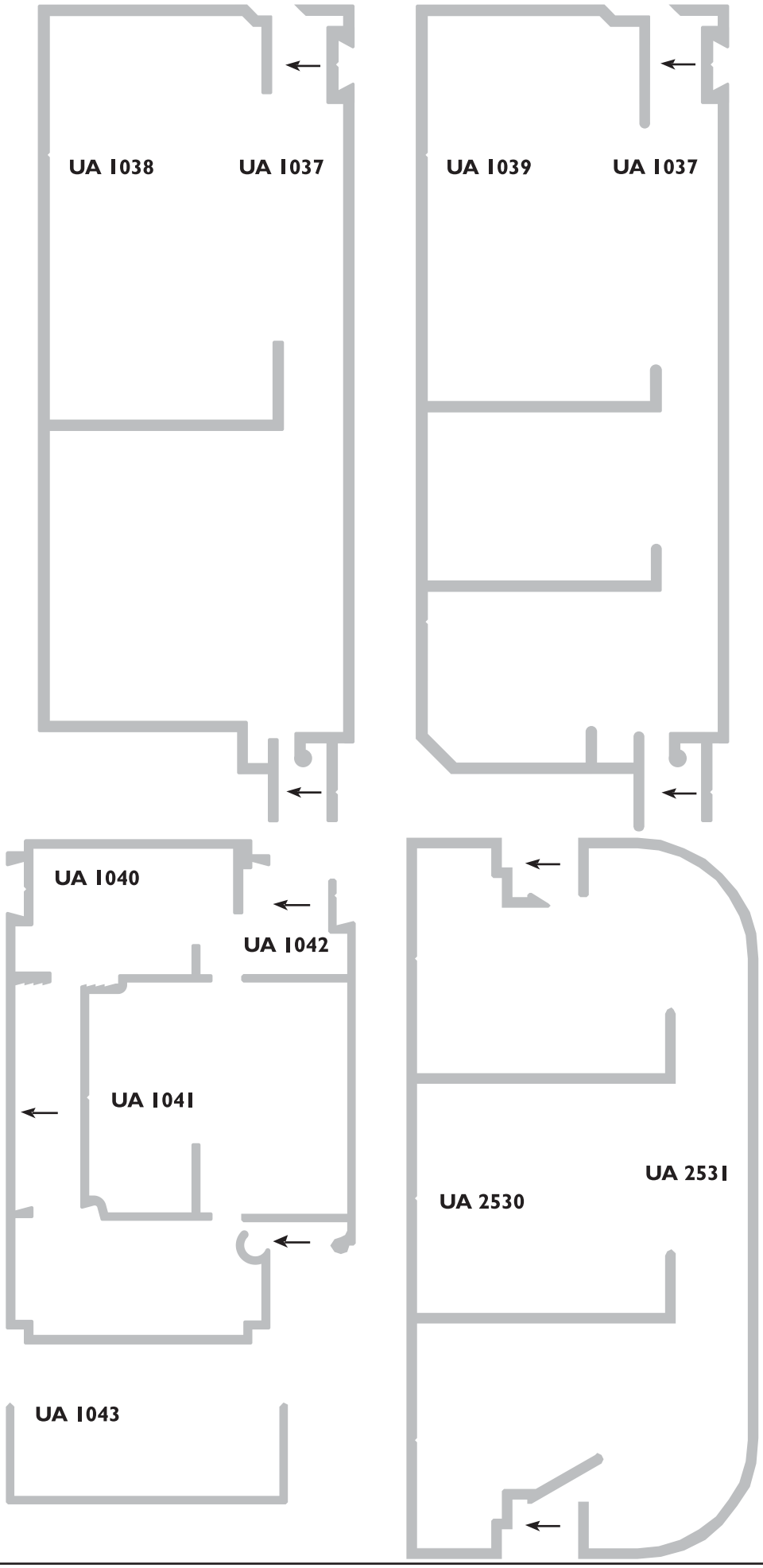
UA 1041
DUCT DIVIDER
kg/m 0.400 P 196
OAD 46 x 22

UA 1042
DUCT LID
kg/m 0.412 P 207
OAD 62.5 x 19

UA 1043
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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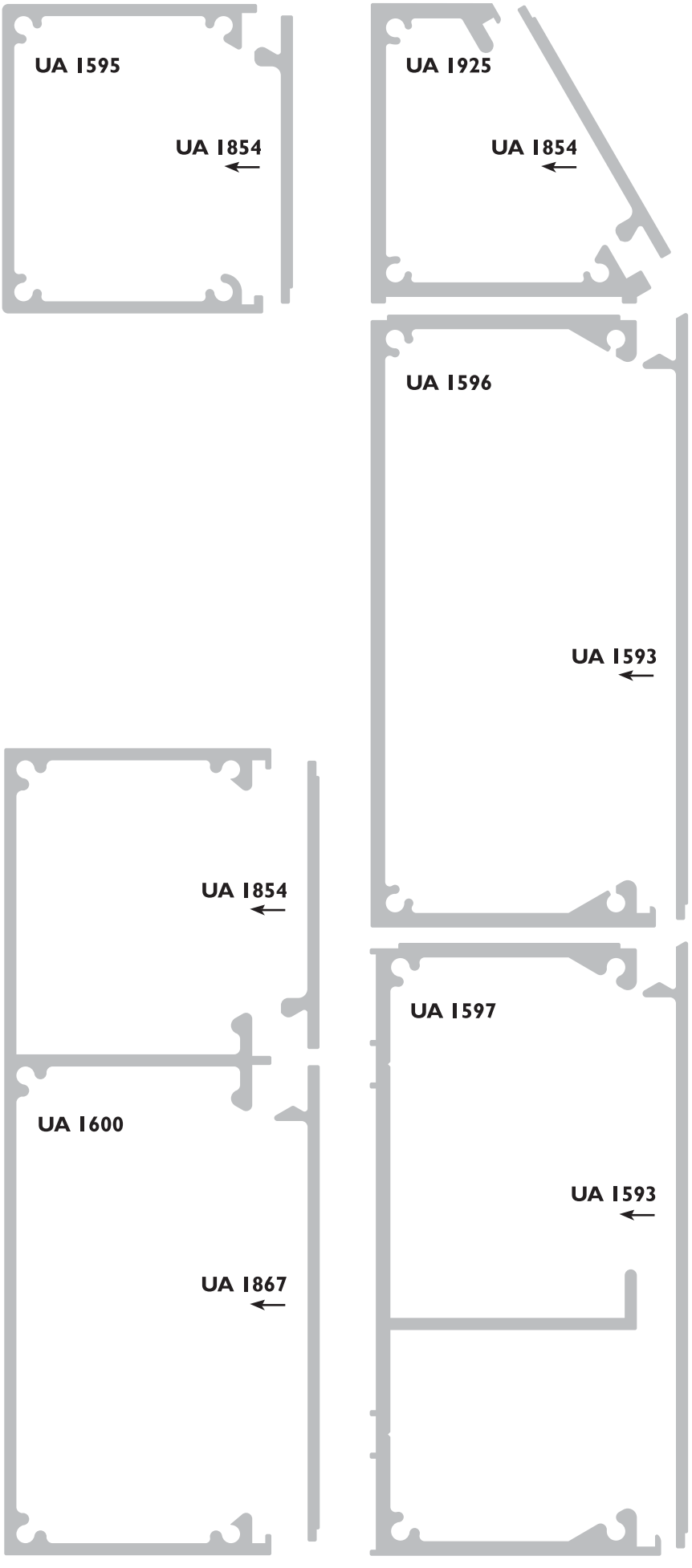

UA 1593
DUCT LID (KSD18, 18/2)
kg/m .564 P 214
OAD 100 x 7.5

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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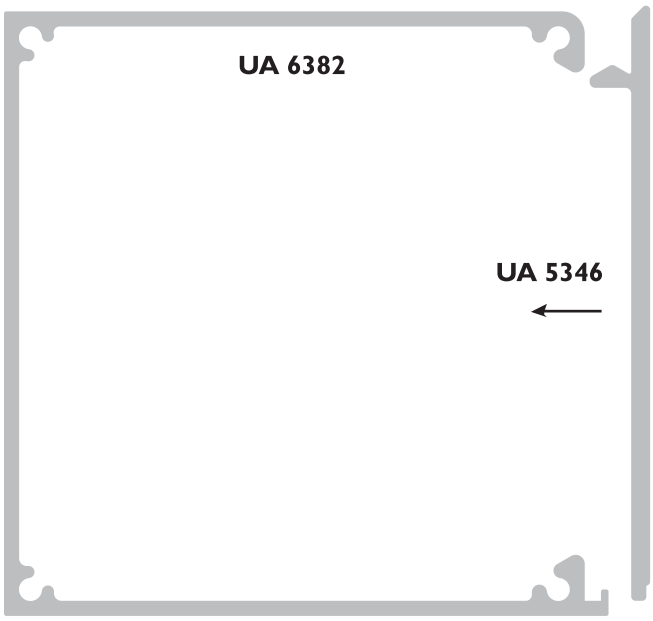
UA 5346
DUCT LID
kg/m 0.442 P 169
OAD 77.9 x 7.5

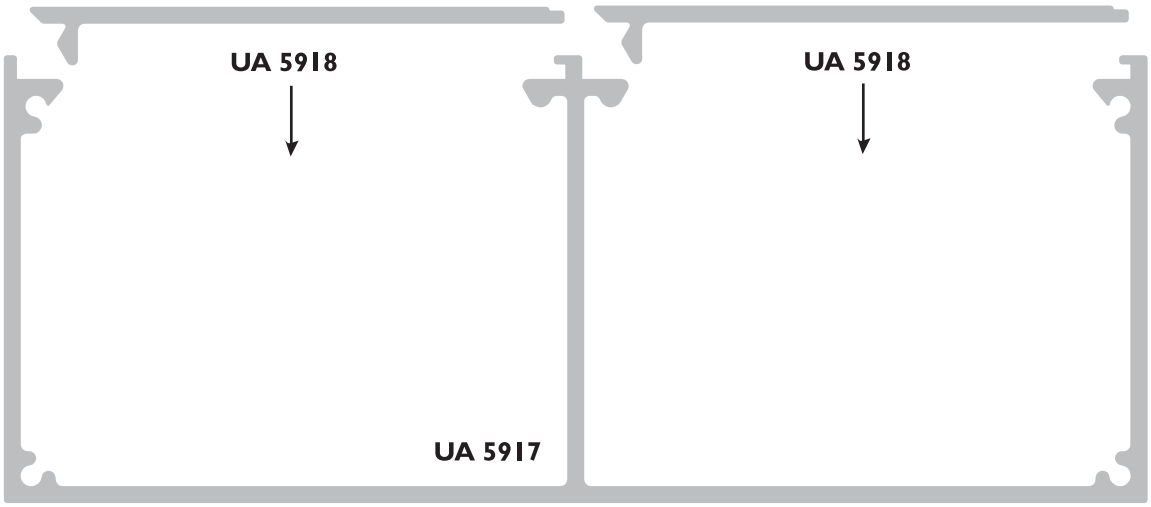
UA 5917
DOUBLE DUCT CHANNEL
kg/m 1.963 P 710
OAD 151 x 59

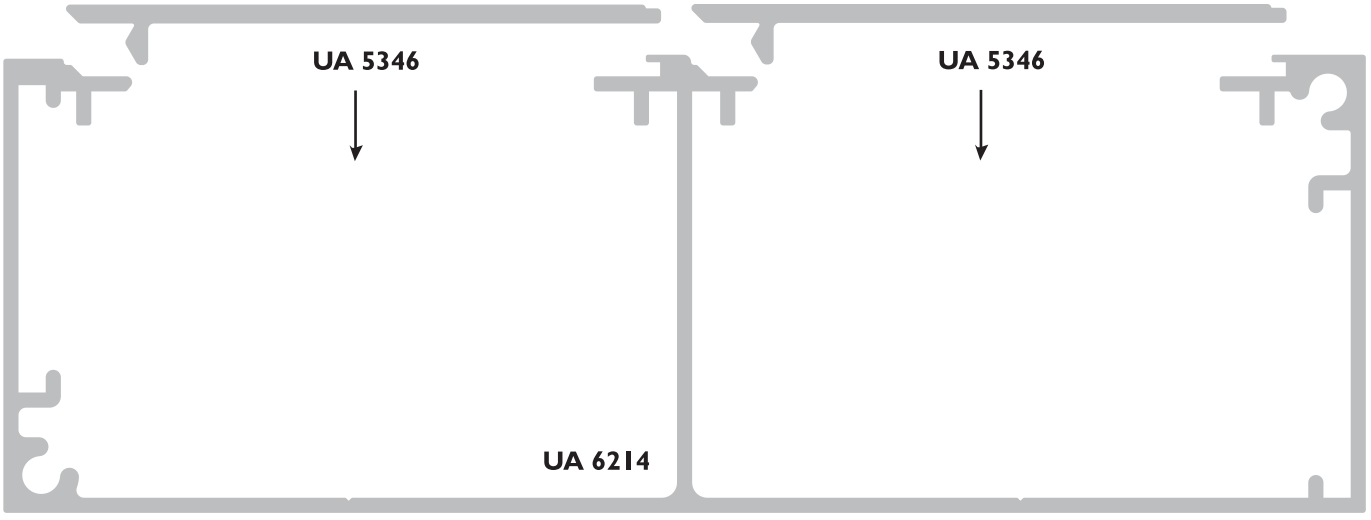
UA 5918
DOUBLE DUCT LID
kg/m 0.402 P 154
OAD 70.5 x 7.5

UA 6214
DOUBLE DUCT CHANNEL
kg/m 2.632 P 910
OAD 180 x 60

UA 6382
DUCT CHANNEL
kg/m 1.413 P 511
OAD 80 x 80







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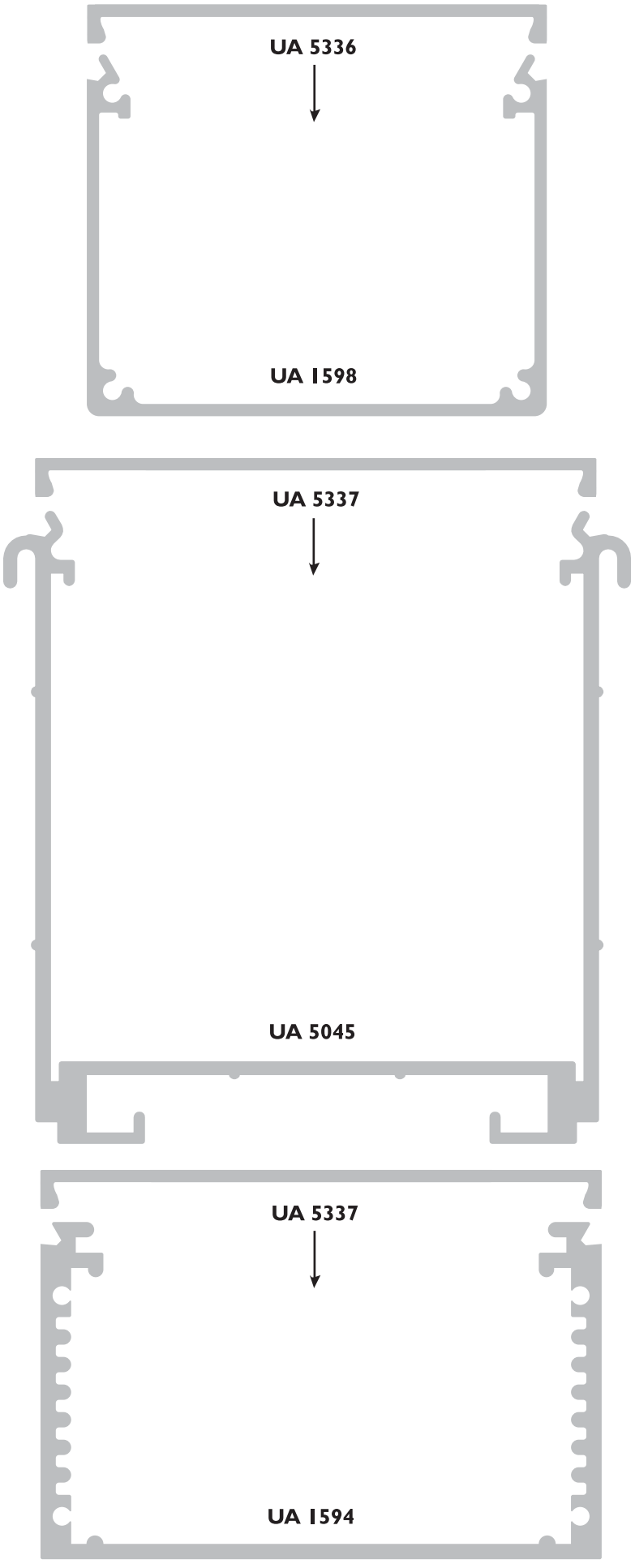

UA 1594
DUCT CHANNEL (KMP13)
kg/m 1.856 P 512
OAD 91.5 x 55

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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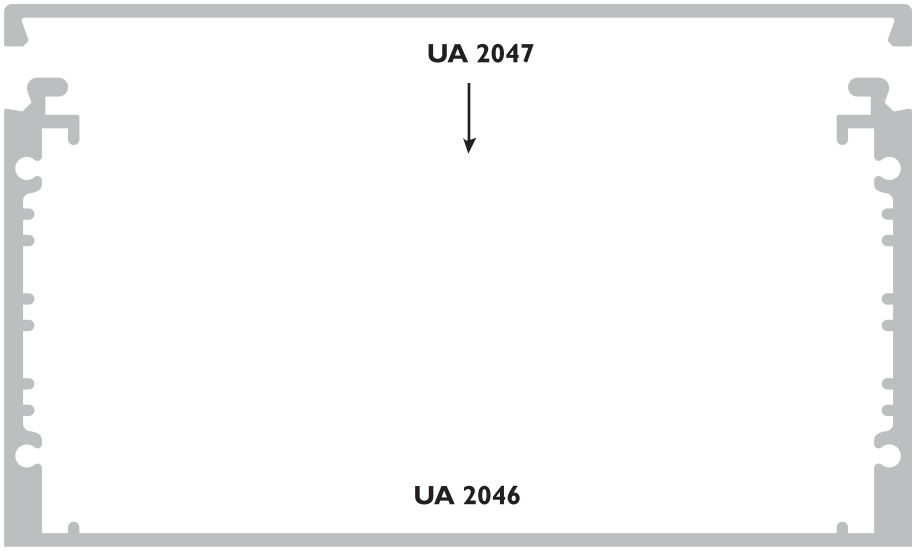
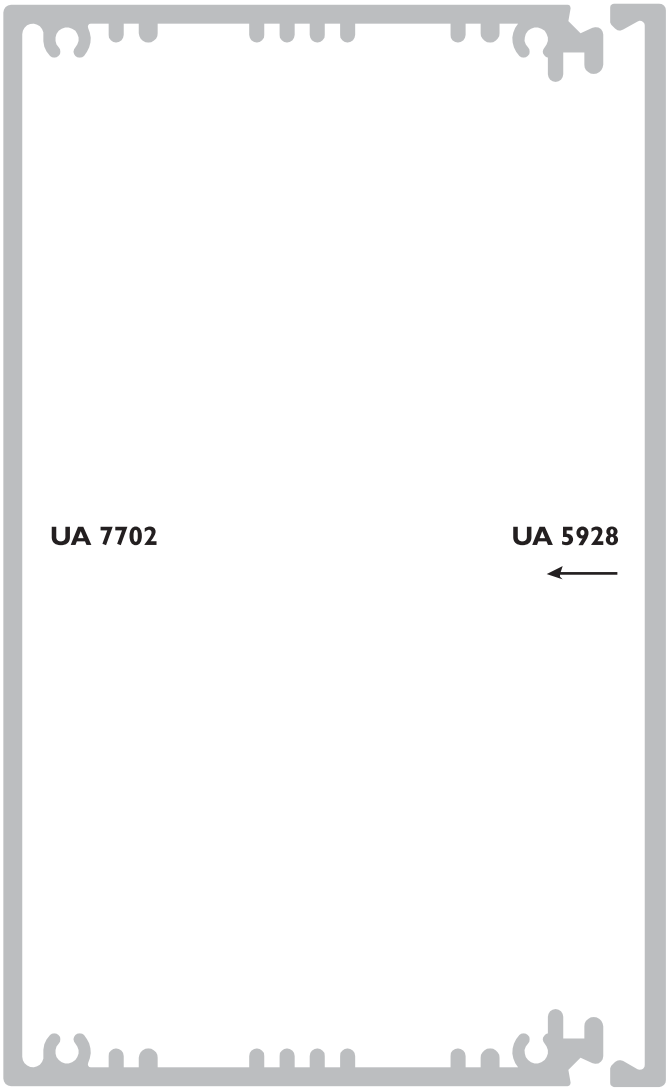
UA 2046
DUCT CHANNEL (KMP26)
kg/m 1.802 P 586
OAD 120 x 62

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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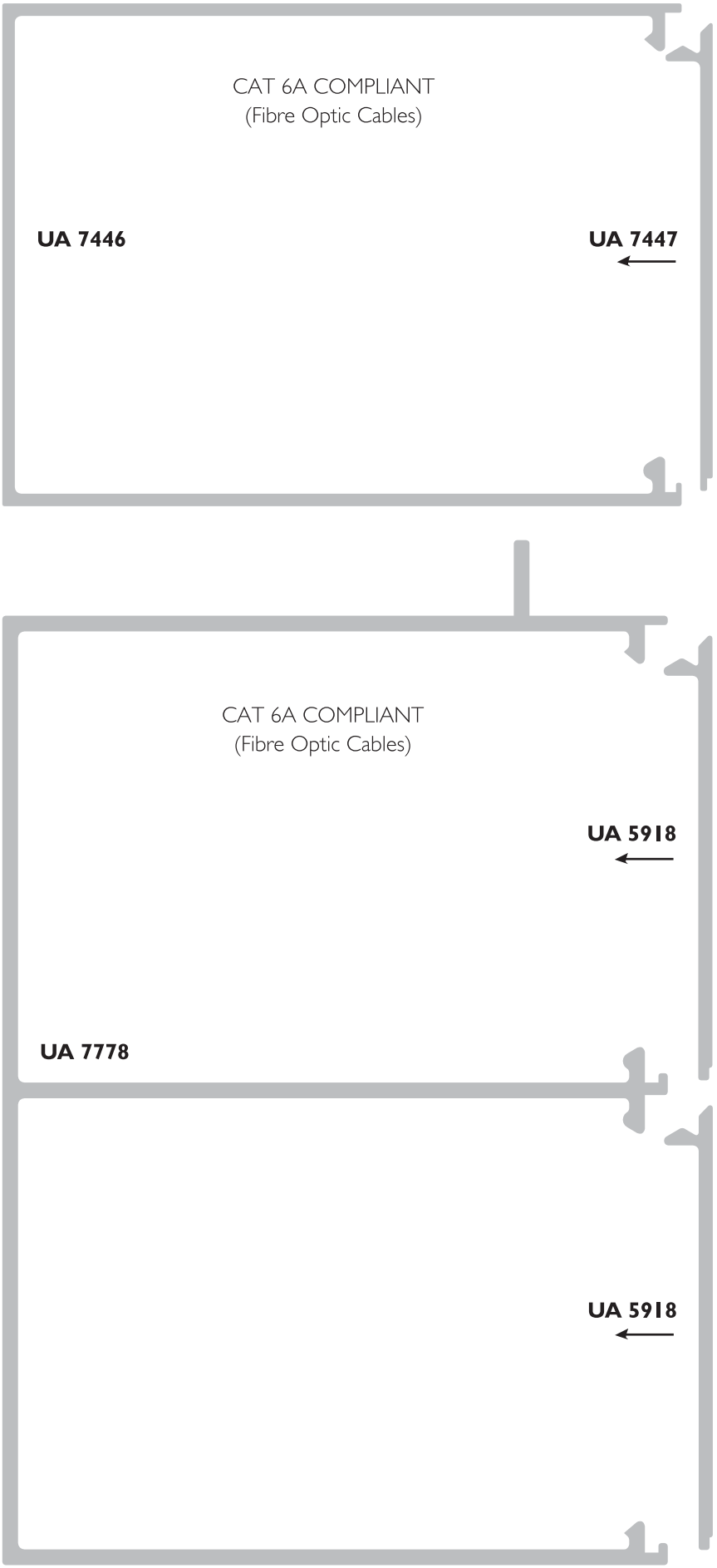

UA 5918
DOUBLE DUCT LID
kg/m 0.402 P 154
OAD 70.5 x 7.5

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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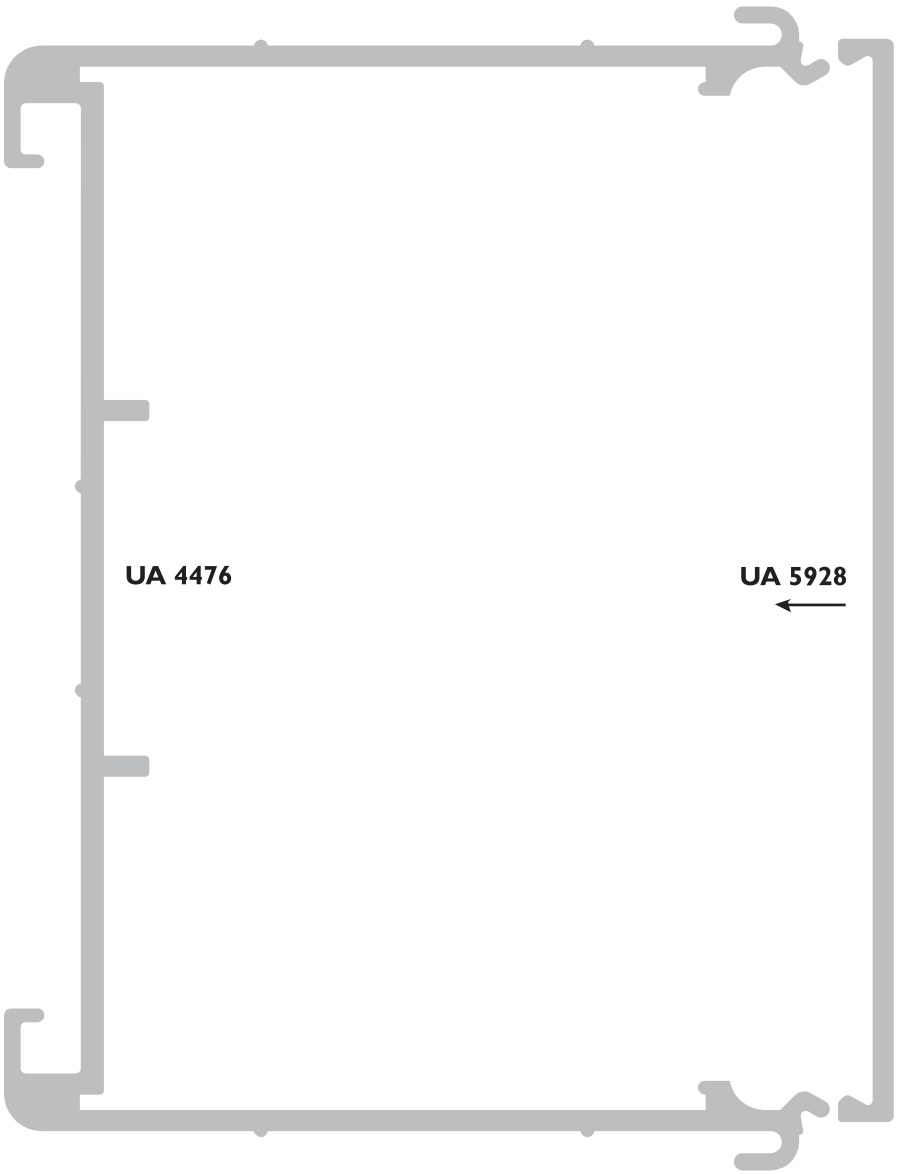
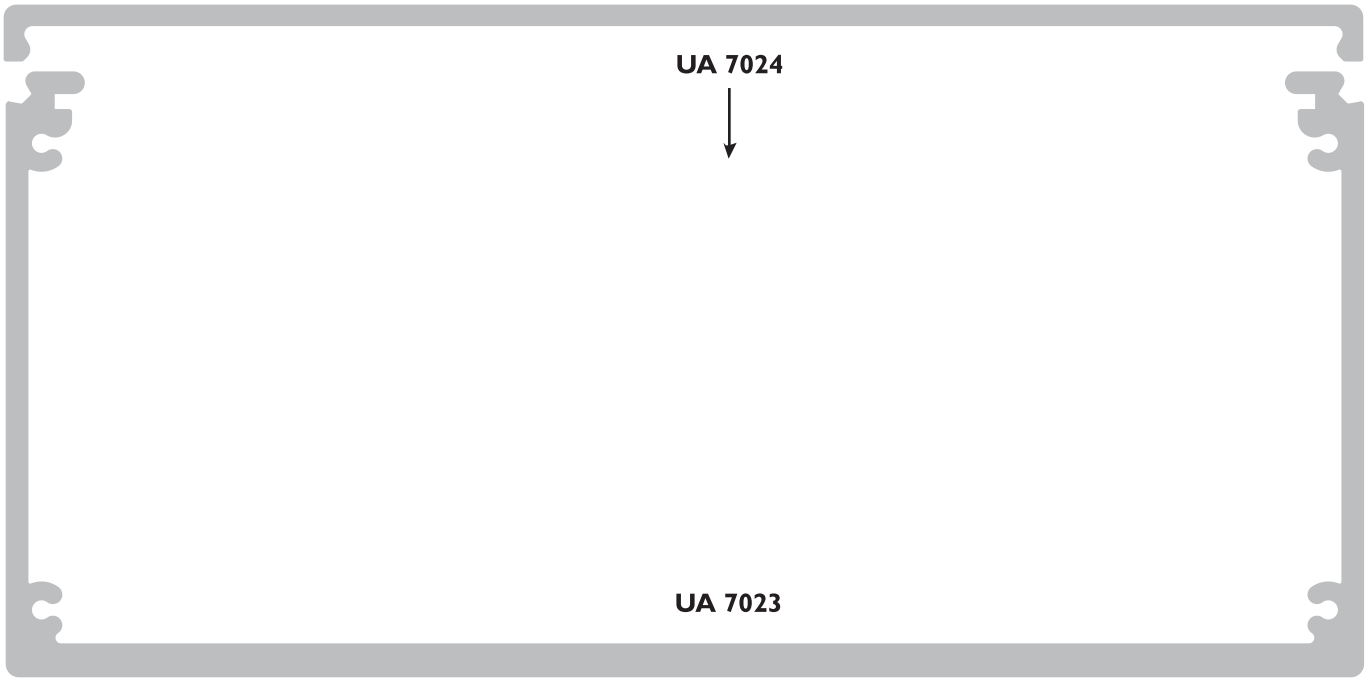
UA 4476
DUCT CHANNEL (KPL05)
kg/m 3.169 P 855
OAD 153.67 x 108.96

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





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

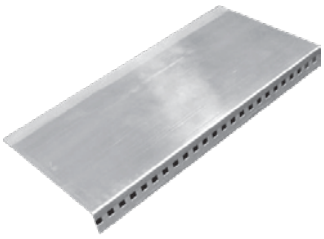
UA 4528 UlltraClad
STANDARD BOARD
kg/m 1.003 P 501
OAD 190.5 x 15

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

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

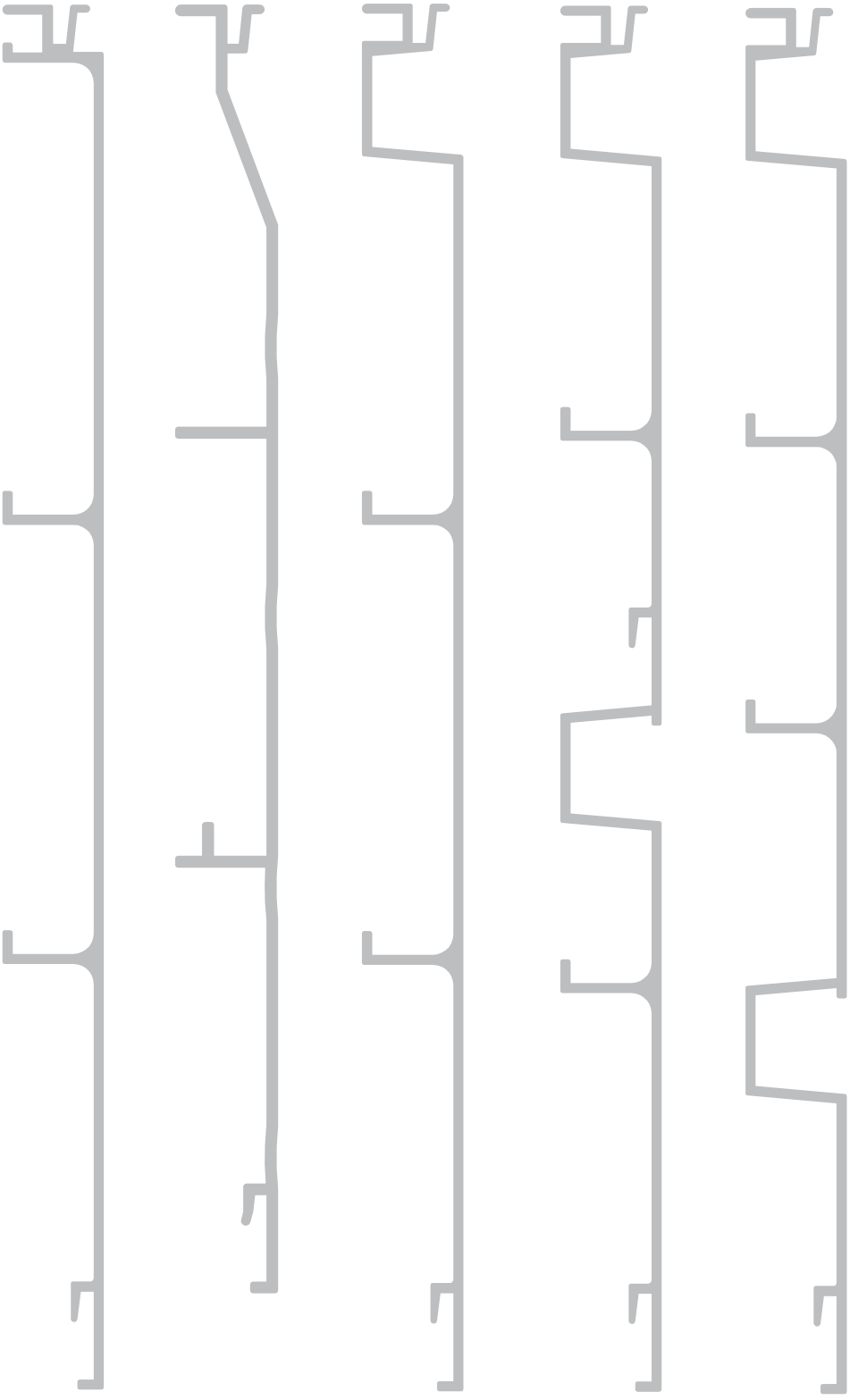
UA 7726 UlltraClad
SHADO 100 BOARD
kg/m 1.303 P 629
OAD 205.16 x 15
Can be fitted VERTICALLY

UA 7868 UlltraClad
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**



DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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OAD = OVERALL DIMENSIONS
P = EXT PERIPHERY

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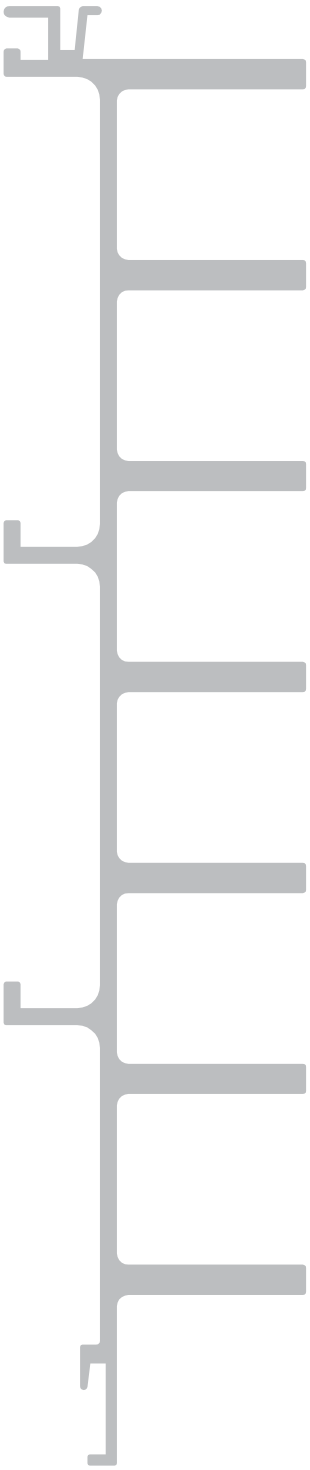
UA 5104

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 UlltraClad
WINDOW FLASHING
kg/m 0.420 P 214
OAD 65 x 18.5

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

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

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

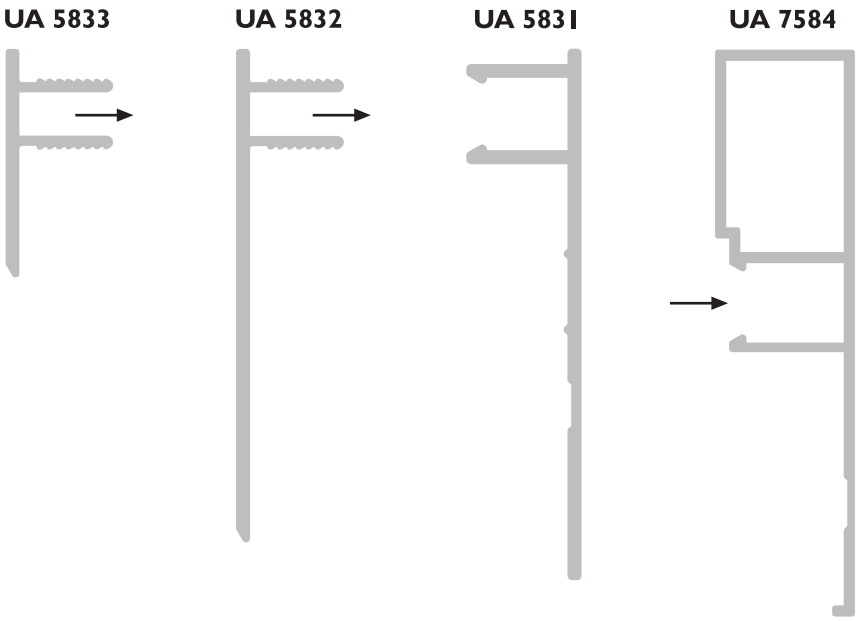
UA 4863 UlltraClad
VERTICAL BOARD STARTER
kg/m 0.554 P 280
OAD 95 x 18.5

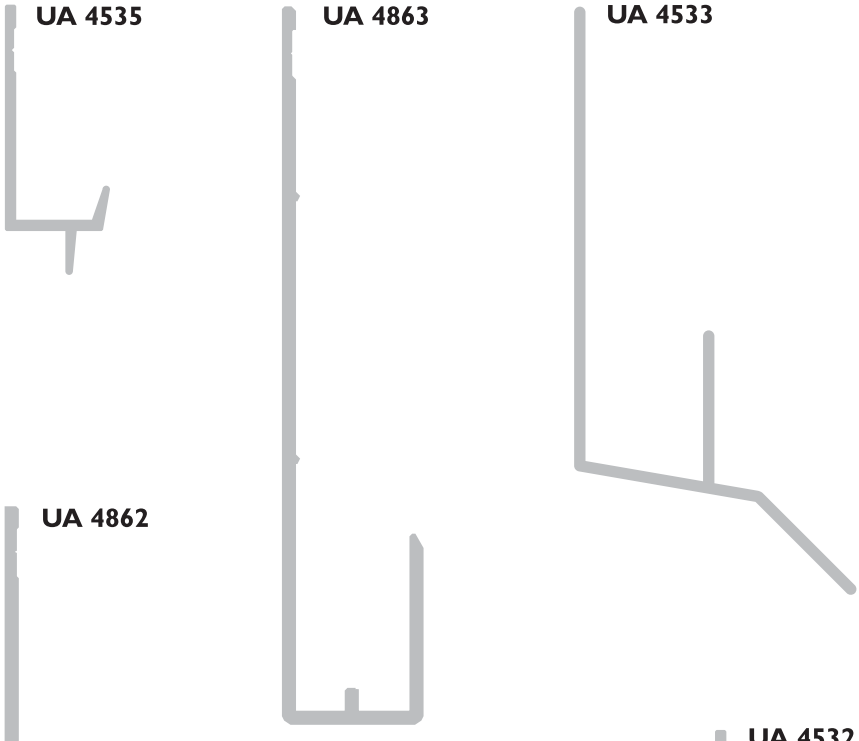
UA 5831 UlltraClad
SOFFIT CLIP BASE
kg/m 0.416 P 198
OAD 70 x 15

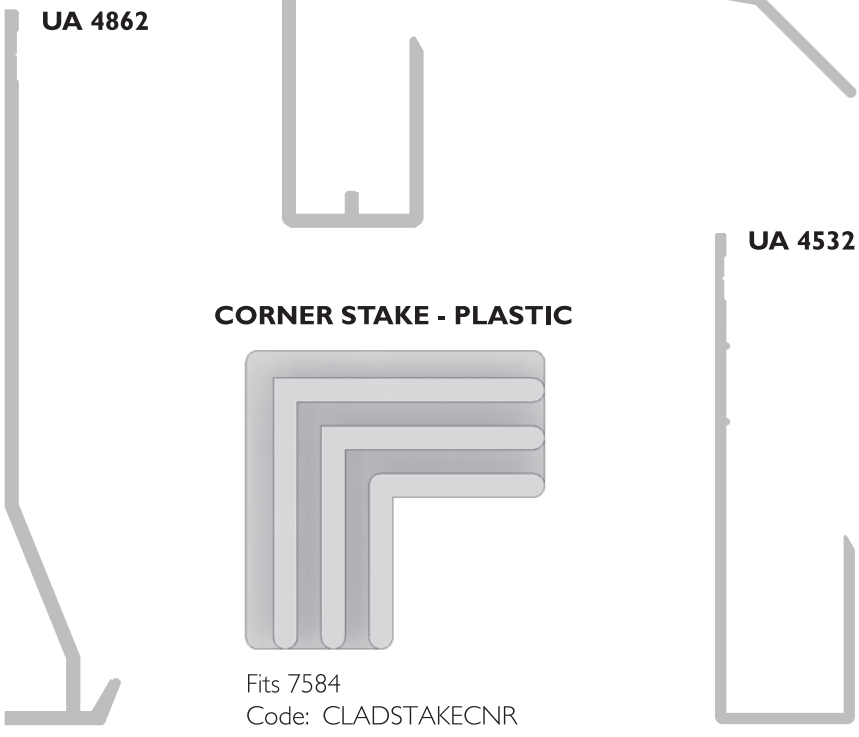
UA 5832 UlltraClad
SOFFIT 65mm CLIP TOP
kg/m 0.367 P 189
OAD 65 x 14

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

UA 7584 UlltraClad
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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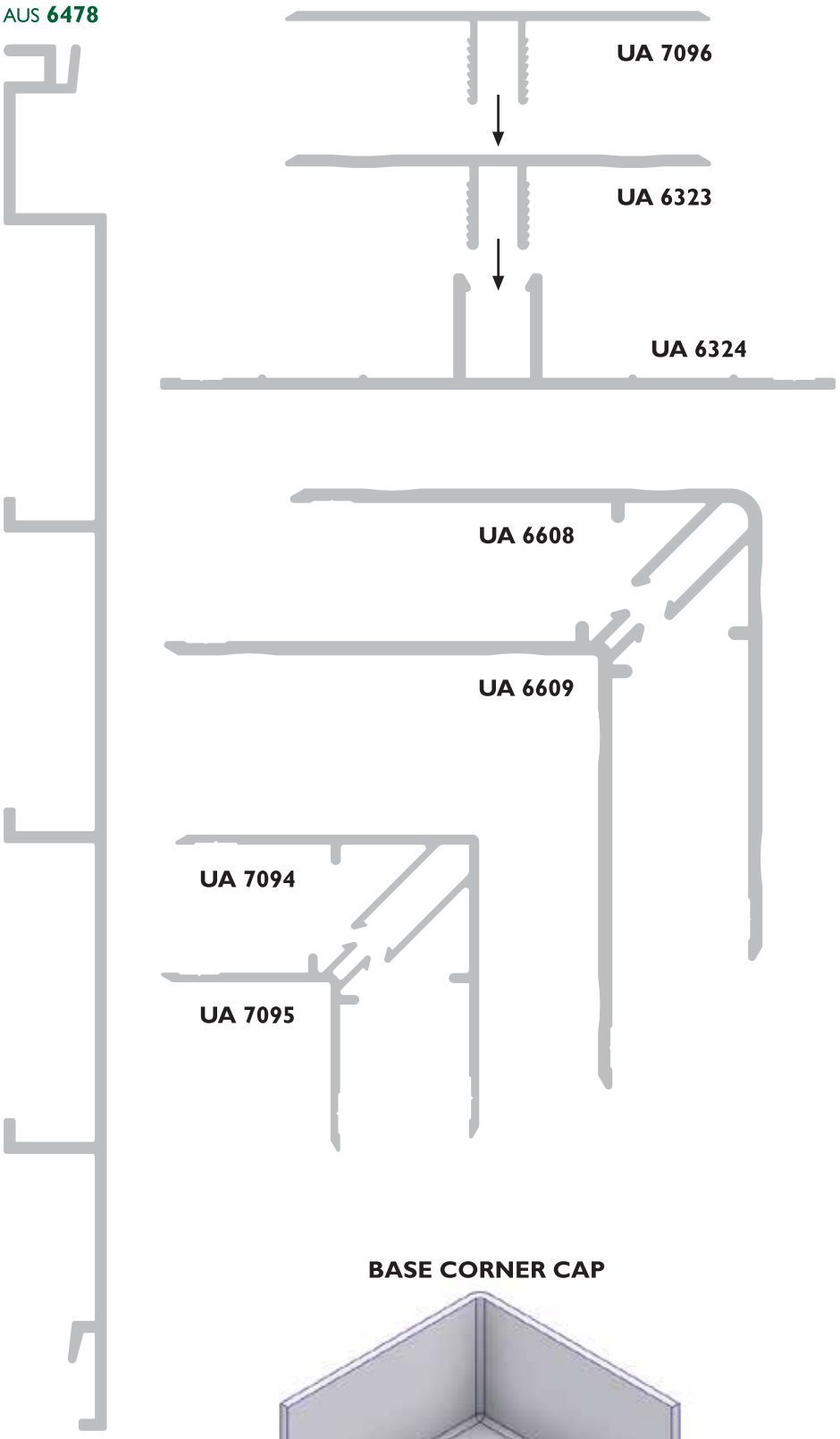


UA 6323 UlltraClad
SCALLOPED JOINTER TOP
kg/m 0.338 P 184
OAD 63 x 13.9

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

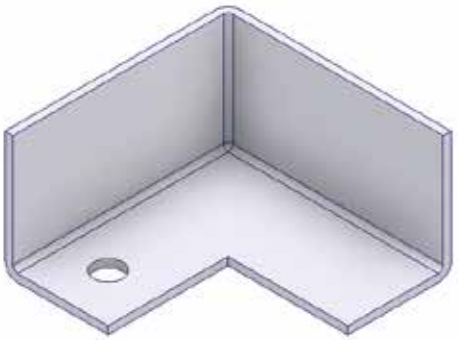
UA 6609 UlltraClad
MALE SCALLOPED CORNER
kg/m 0.594 P 300
OAD 71.3 x 71.3

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

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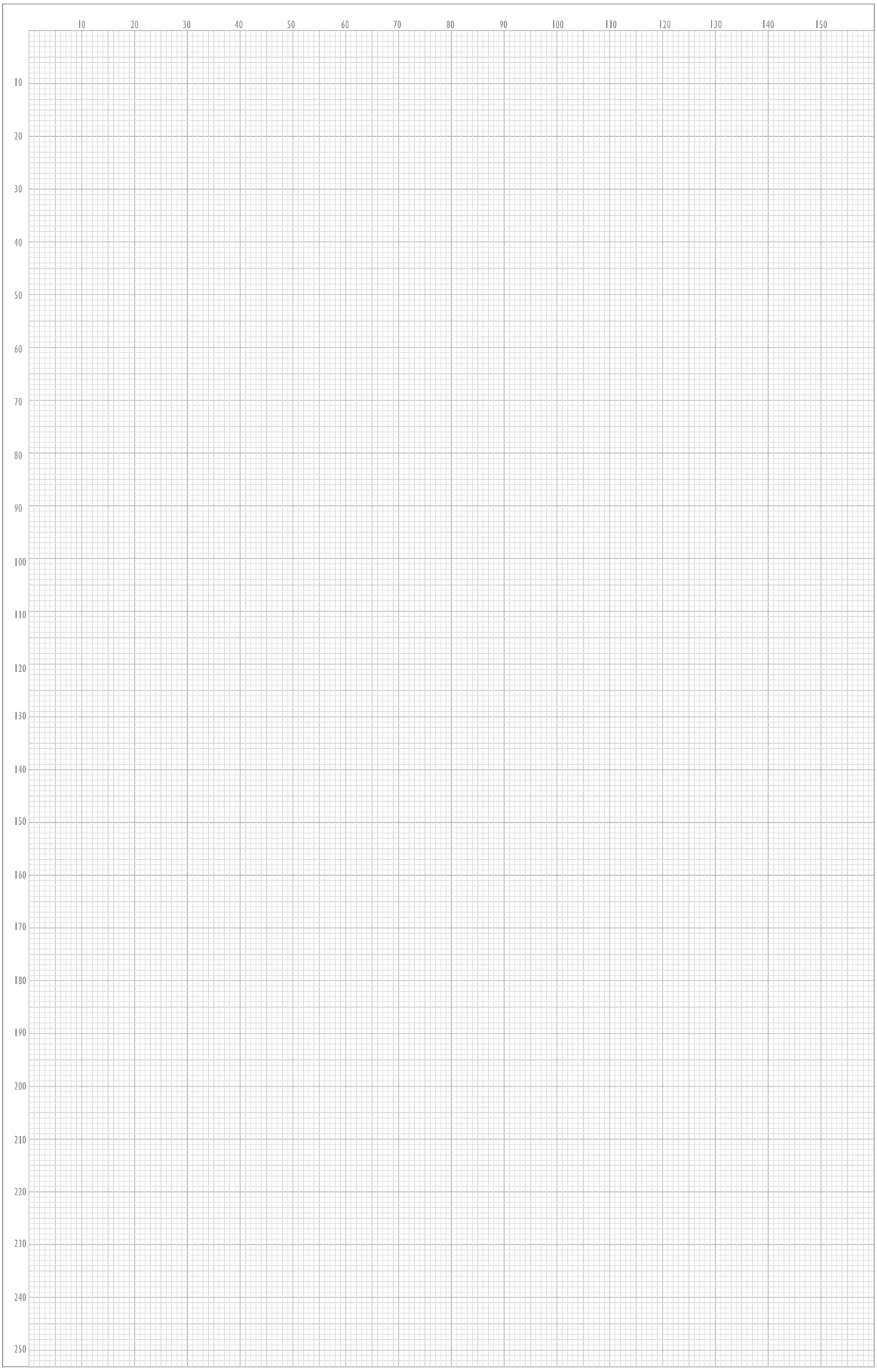
PLANNING GRID AND NOTES



DIE No	DESCRIPTION

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

DIE No	DESCRIPTION

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

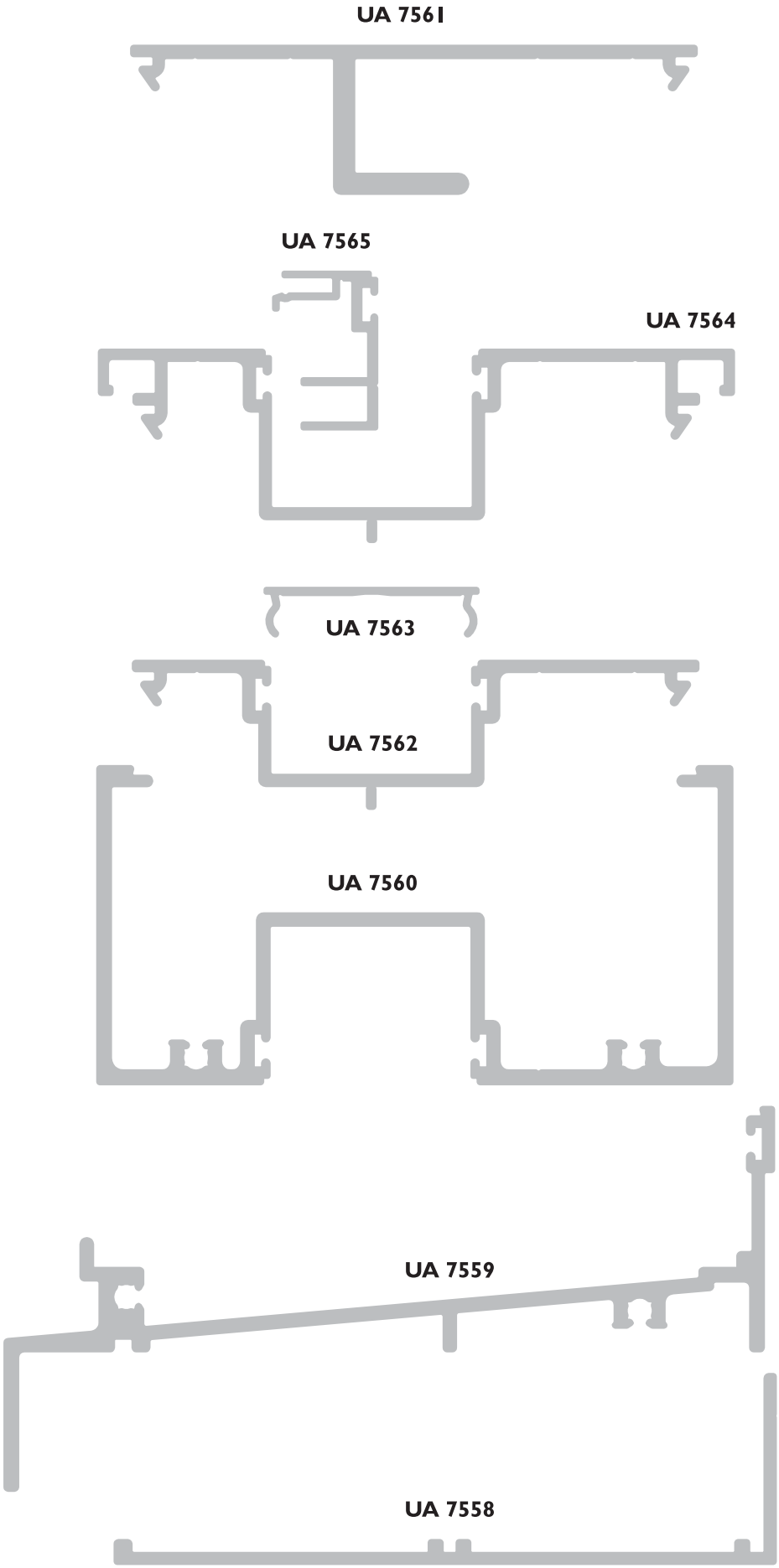
UA 7561
FLAT SUPPORT INFILL
kg/m 0.792 P 283
OAD 89 x 23.2

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



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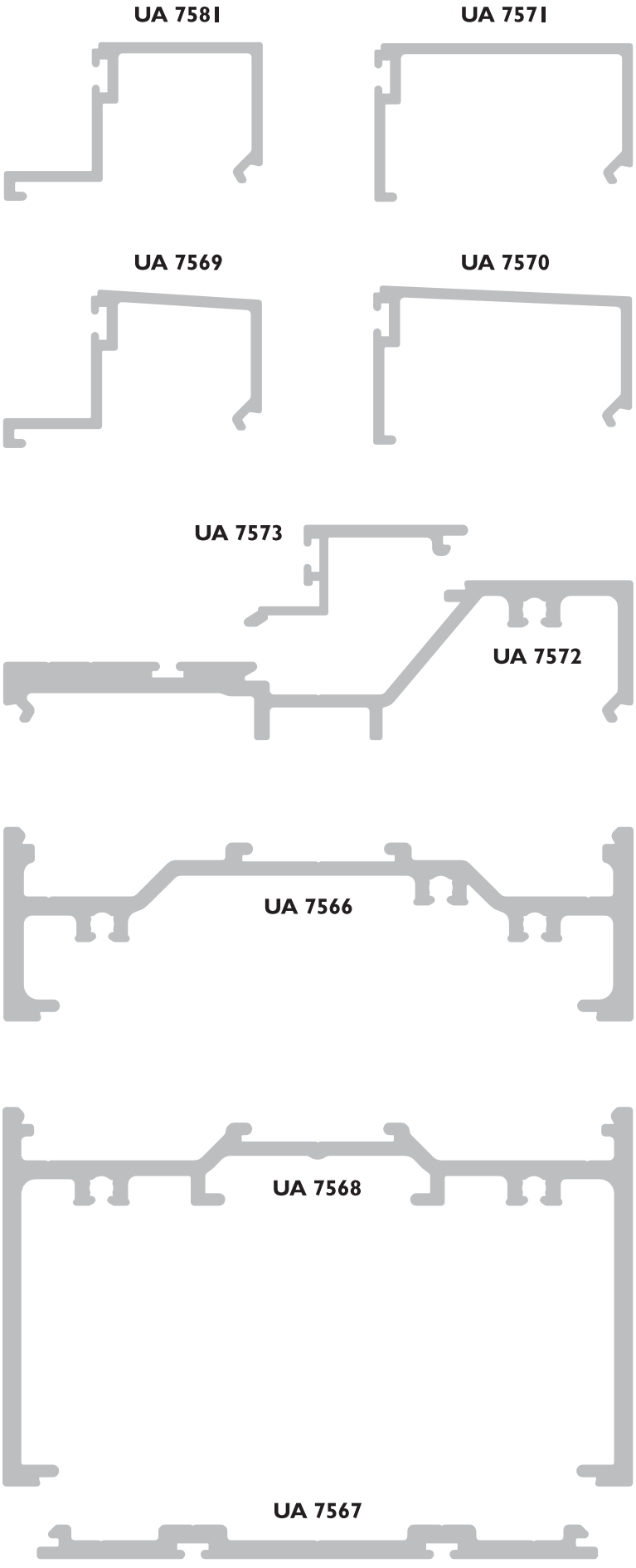

UA 7566
SILL / TRANSOM
kg/m 1.316 P 421
OAD 100 x 30.5

UA 7567
CLOSER COVER
kg/m 0.695 P 223
OAD 89 x 5

UA 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 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 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

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UA 1285
MULLION
kg/m 1.380 P 499
OAD 76.2 x 44.5

UA 1286
MULLION
kg/m 1.779 P 313
OAD 76.2 x 44.5

UA 1287
GLAZING BEAD
kg/m 0.239 P 147
OAD 30.8 x 18.5

UA 1288
MULLION
kg/m 1.483 P 242
OAD 76.2 x 44.5

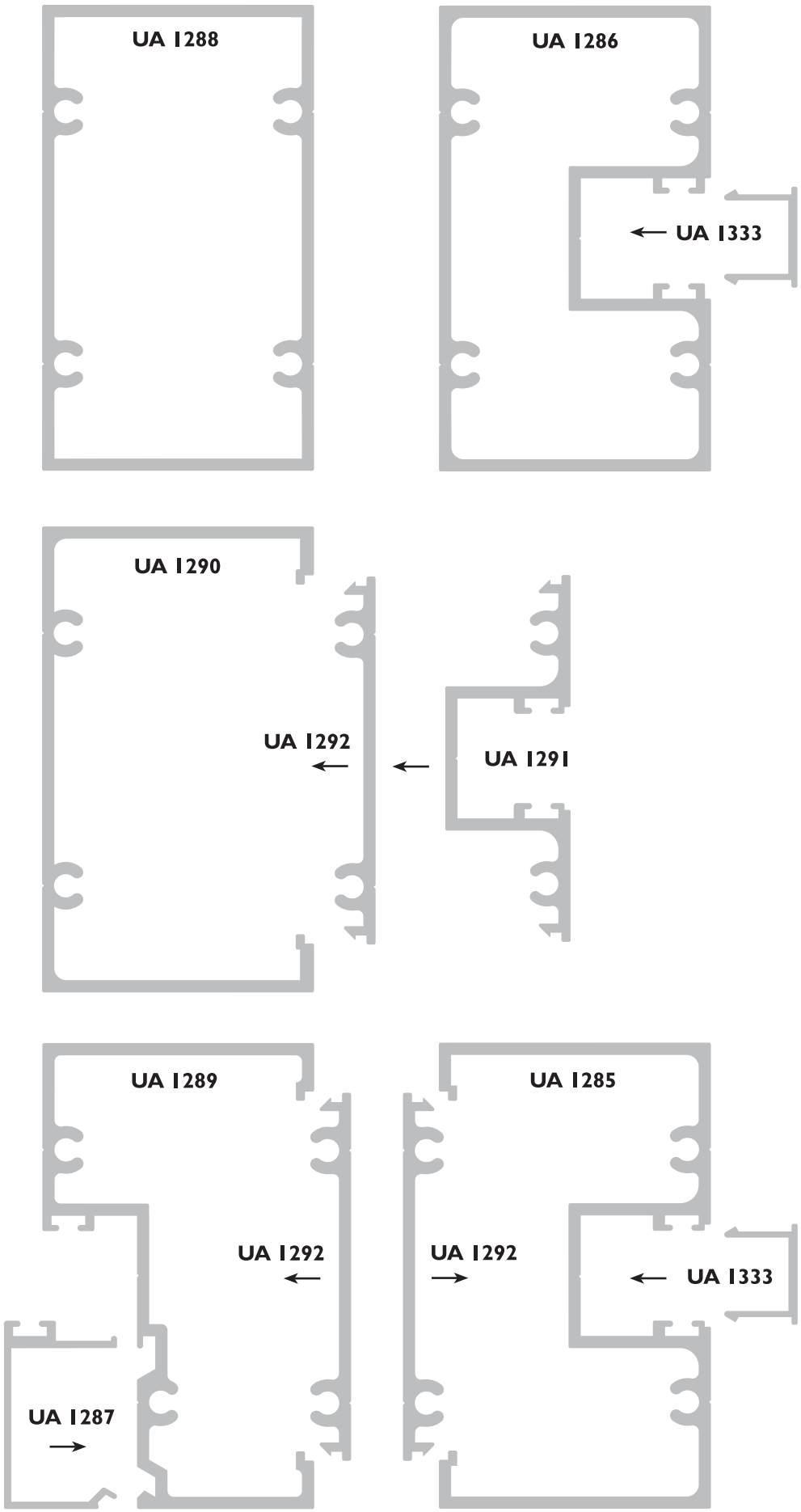
UA 1289
SILL TRANSOM
kg/m 1.136 P 414
OAD 76.2 x 44.5

UA 1290
MULLION
kg/m 1.074 P 388
OAD 76.2 x 44.5

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

UA 1292
FLUSH INFILL
kg/m 0.454 P 169
OAD 60.2 x 6.7

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



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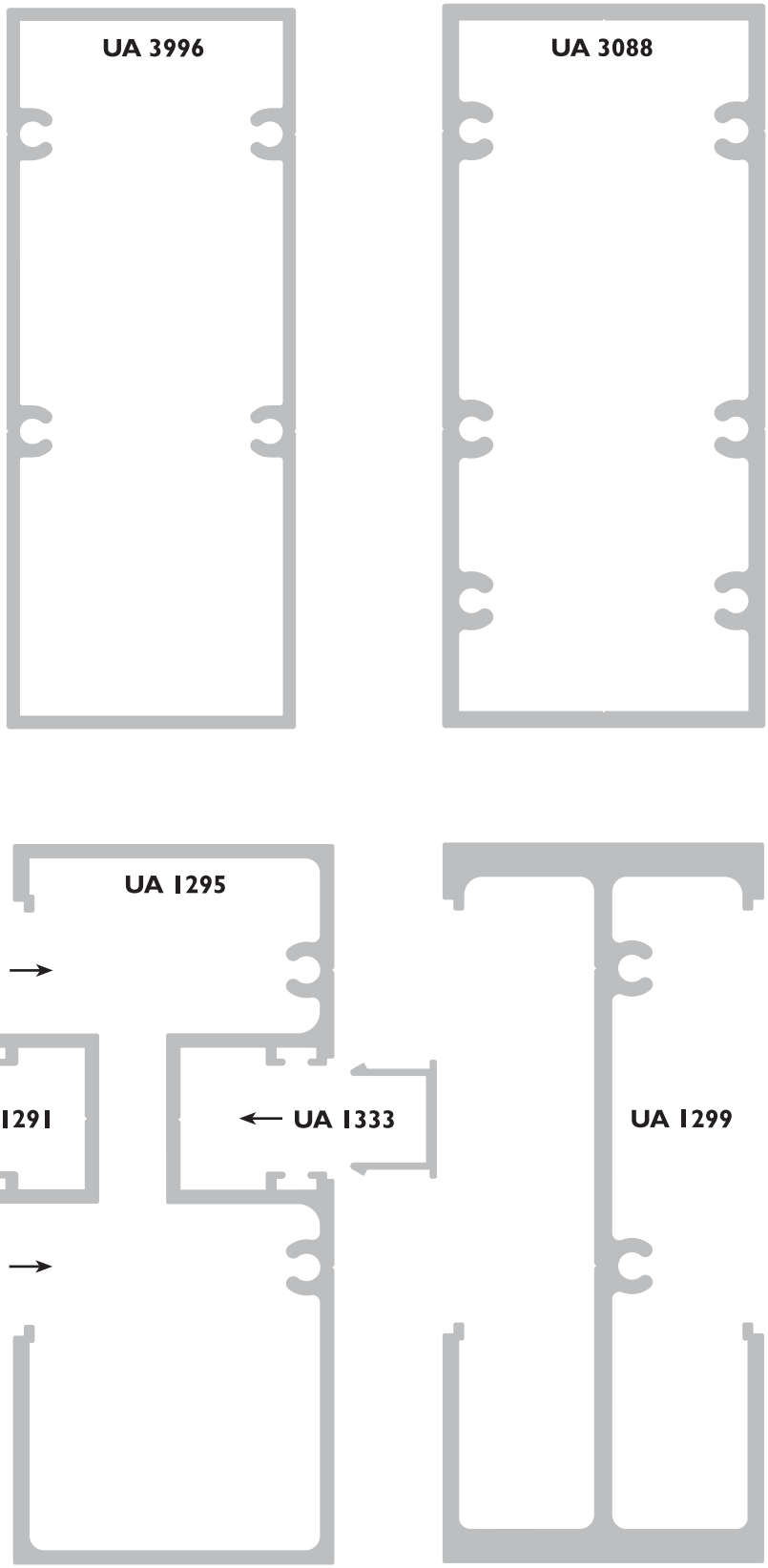

UA 1291
GLAZING INFILL
kg/m 0.719 P 268
OAD 60.2 x 20.5

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

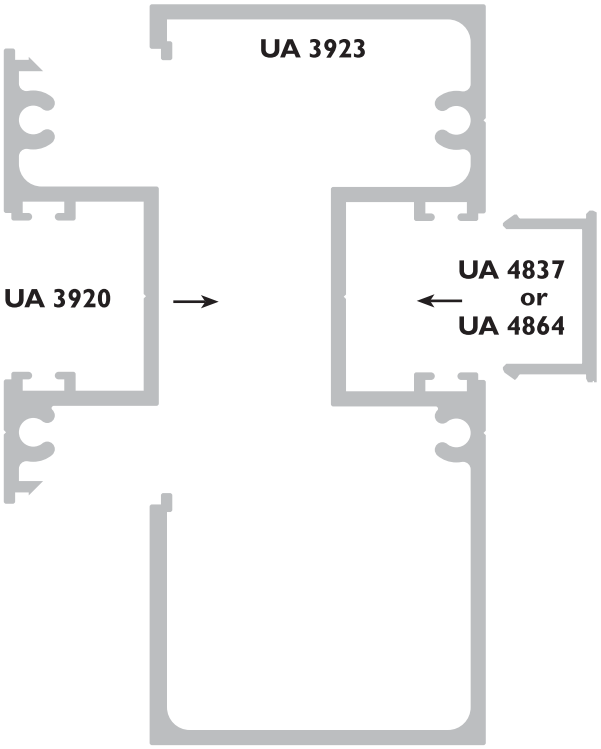
UA 3920
GLAZING INFILL
kg/m 0.710 P 261
OAD 60.2 x 20.5

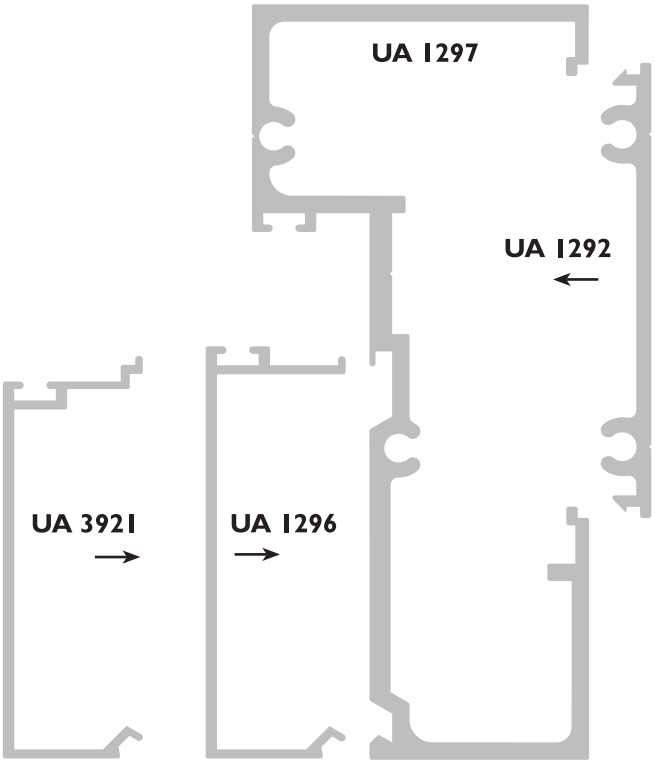
UA 3921
GLAZING BEAD
kg/m 0.341 P 189
OAD 53.25 x 18.5

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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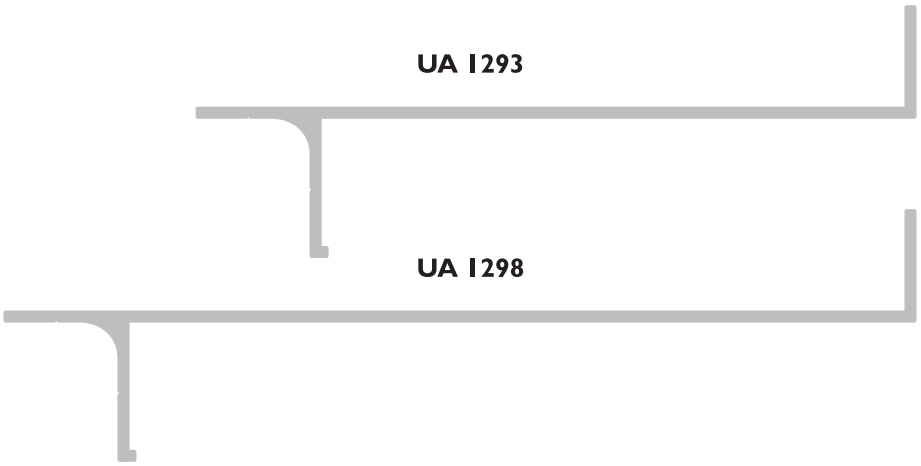

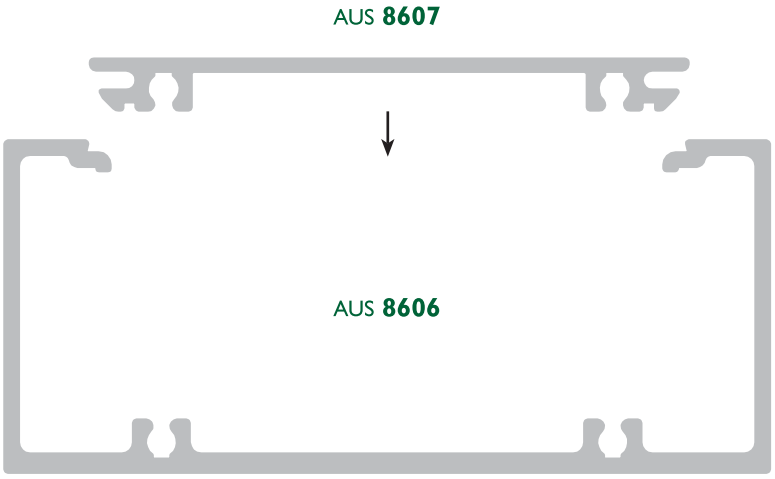

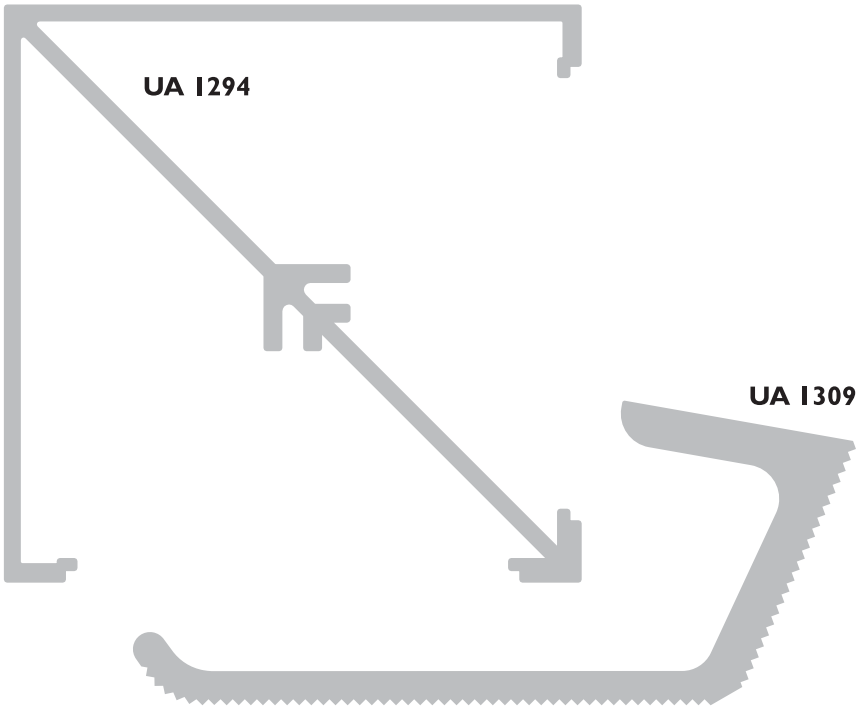

UA 1293
FLASHING
kg/m 0.567 P 257
OAD 95 x 33.5

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

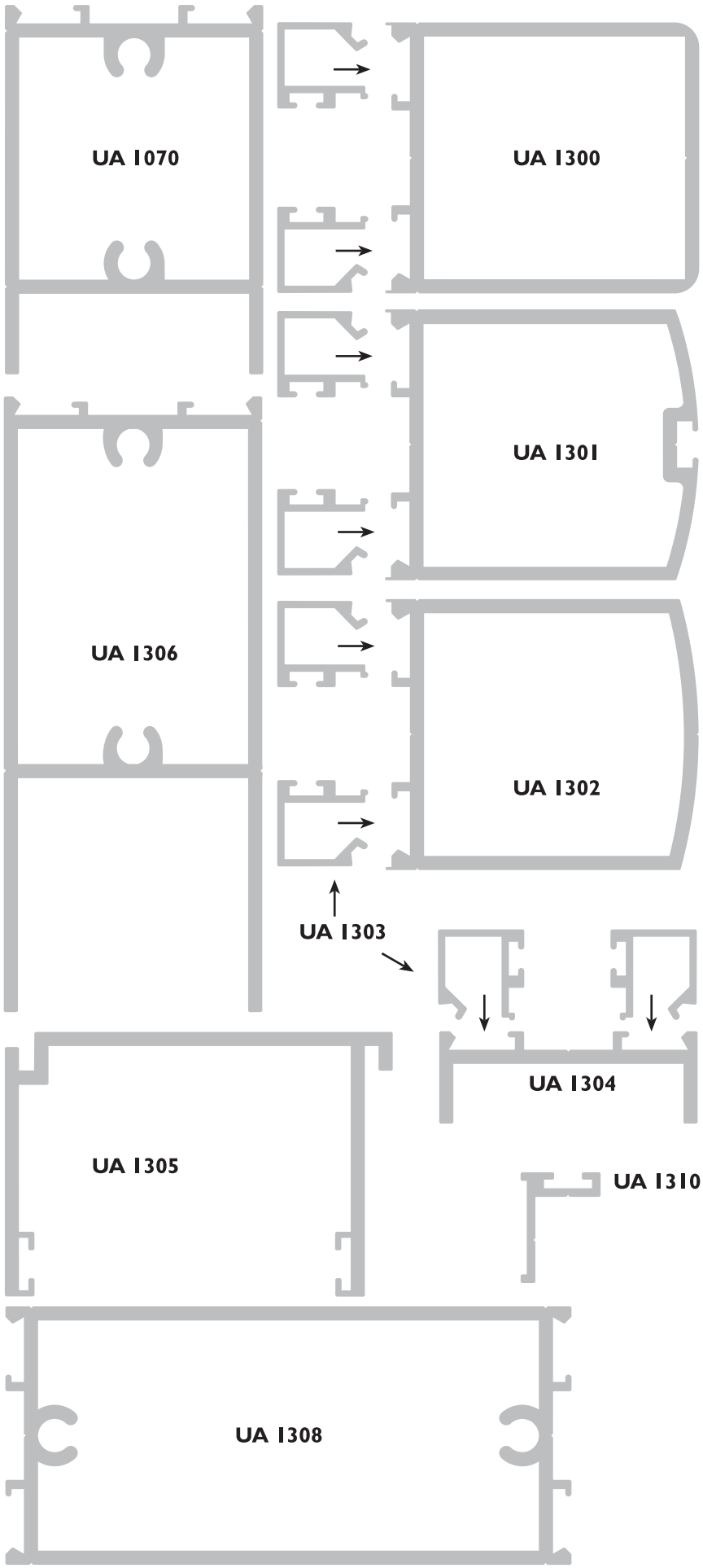
UA 1304
VISION RAIL CAP
kg/m 0.447 P 158
OAD 42 x 15

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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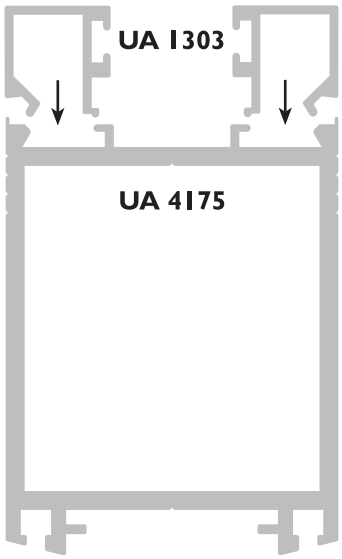

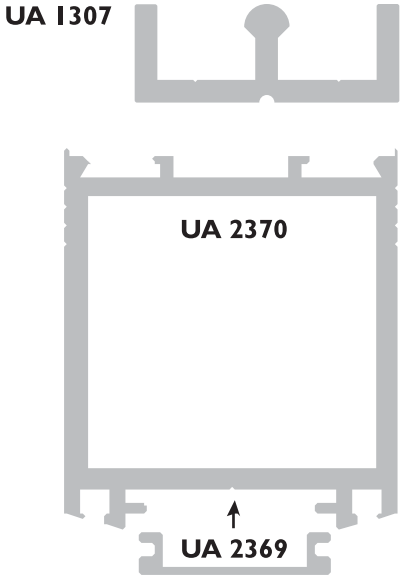

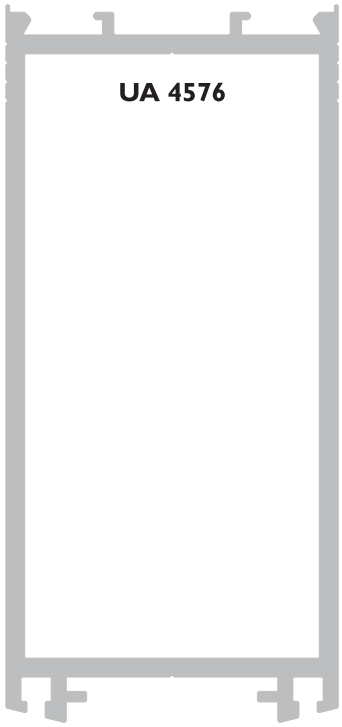

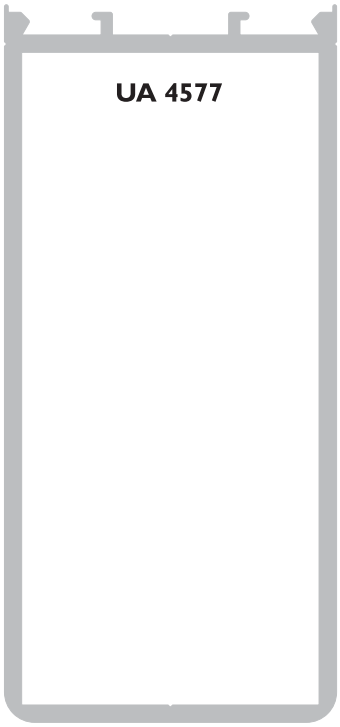

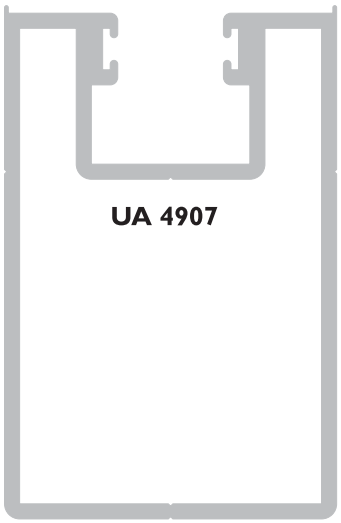

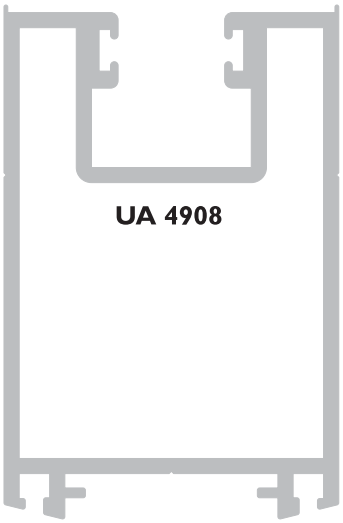

UA 1303
GLAZING BEAD
kg/m 0.167 P 98
OAD 14.8 x 14

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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P = EXT PERIPHERY

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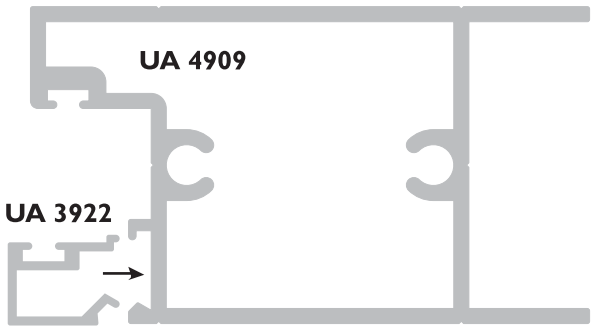
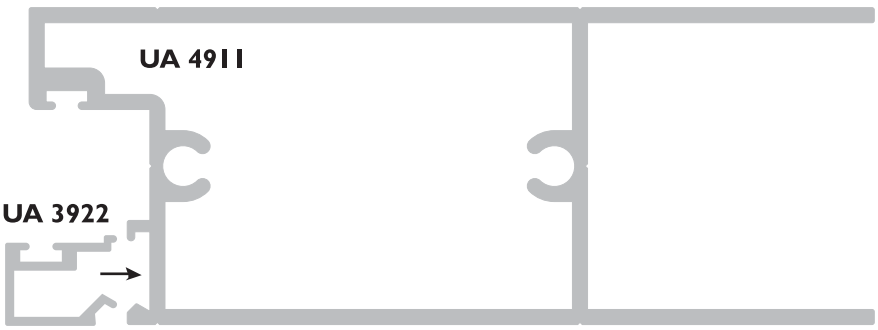
UA 3922
GLAZING BEAD
kg/m 0.157 P 93
OAD 14.8 x 12

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

DESIGNER 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

DIE No	DESCRIPTION

DESIGNER 1000 PARTITIONING SYSTEM

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

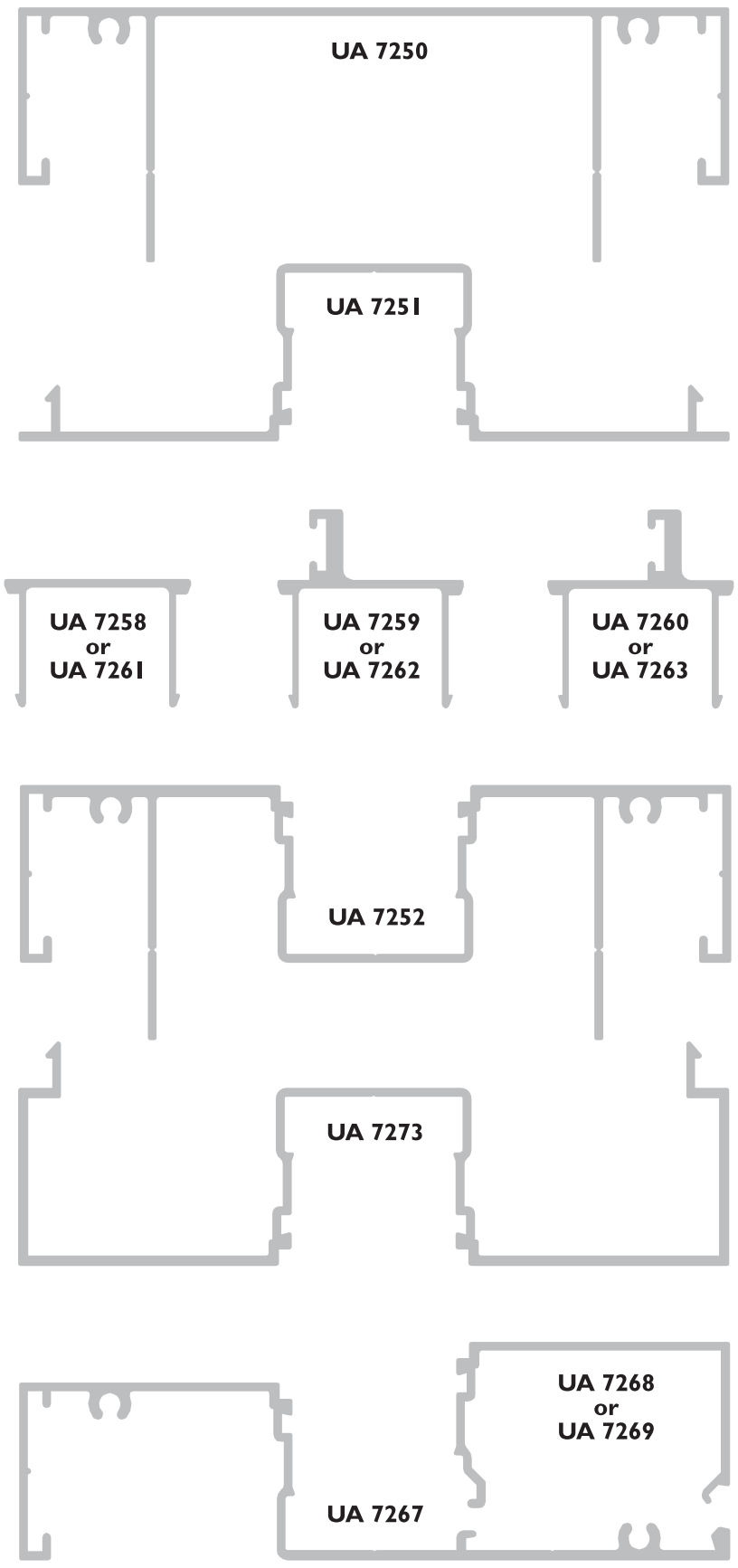
UA 7261
STARTER FLUSH CAP
If Anodised
kg/m 0.210 P 127
OAD 27.6 x 18.75

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

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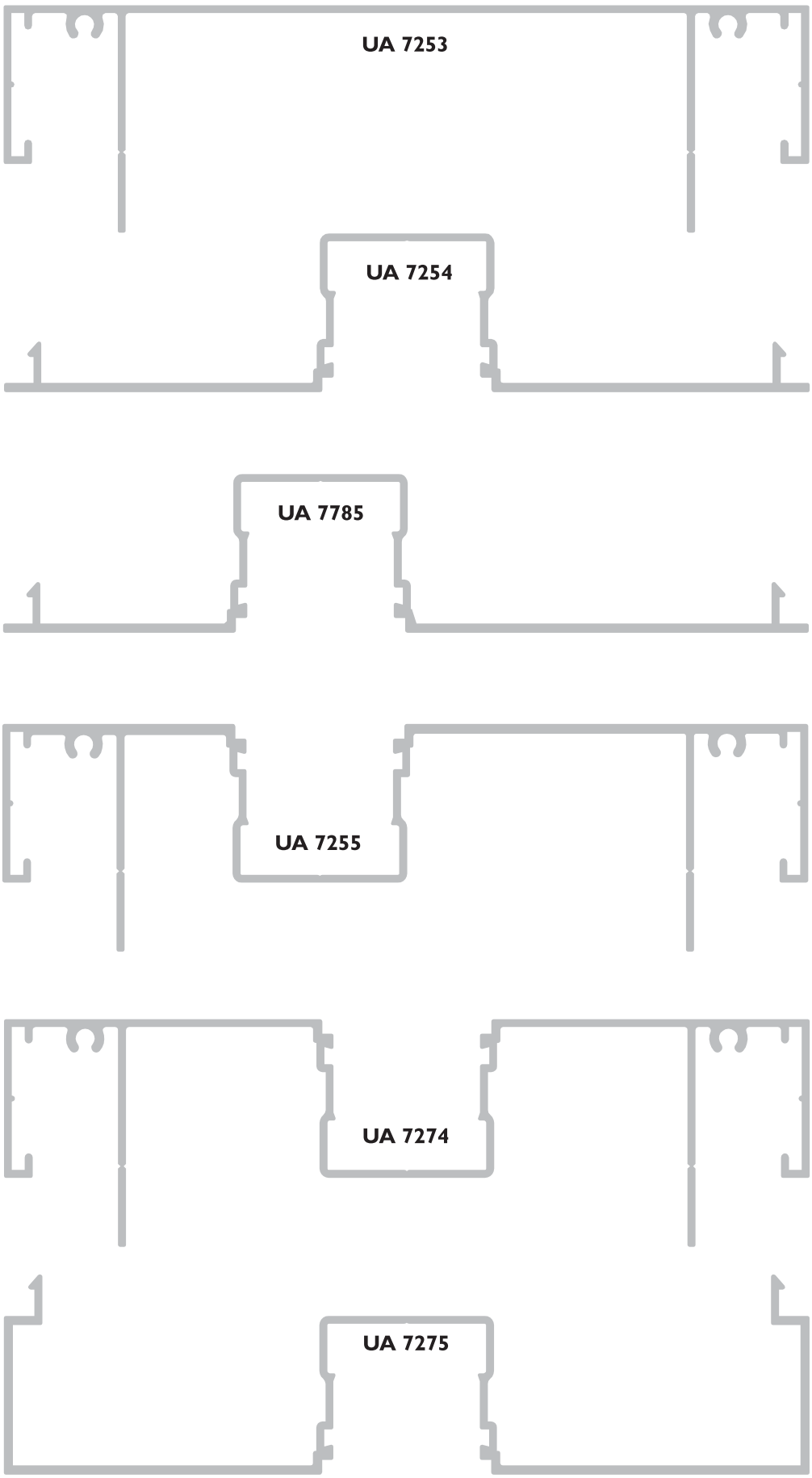

UA 7253
13mm GIB HEAD STARTER
For 92mm Steel Stud
kg/m 1.030 P 571
OAD 132 x 37.3

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

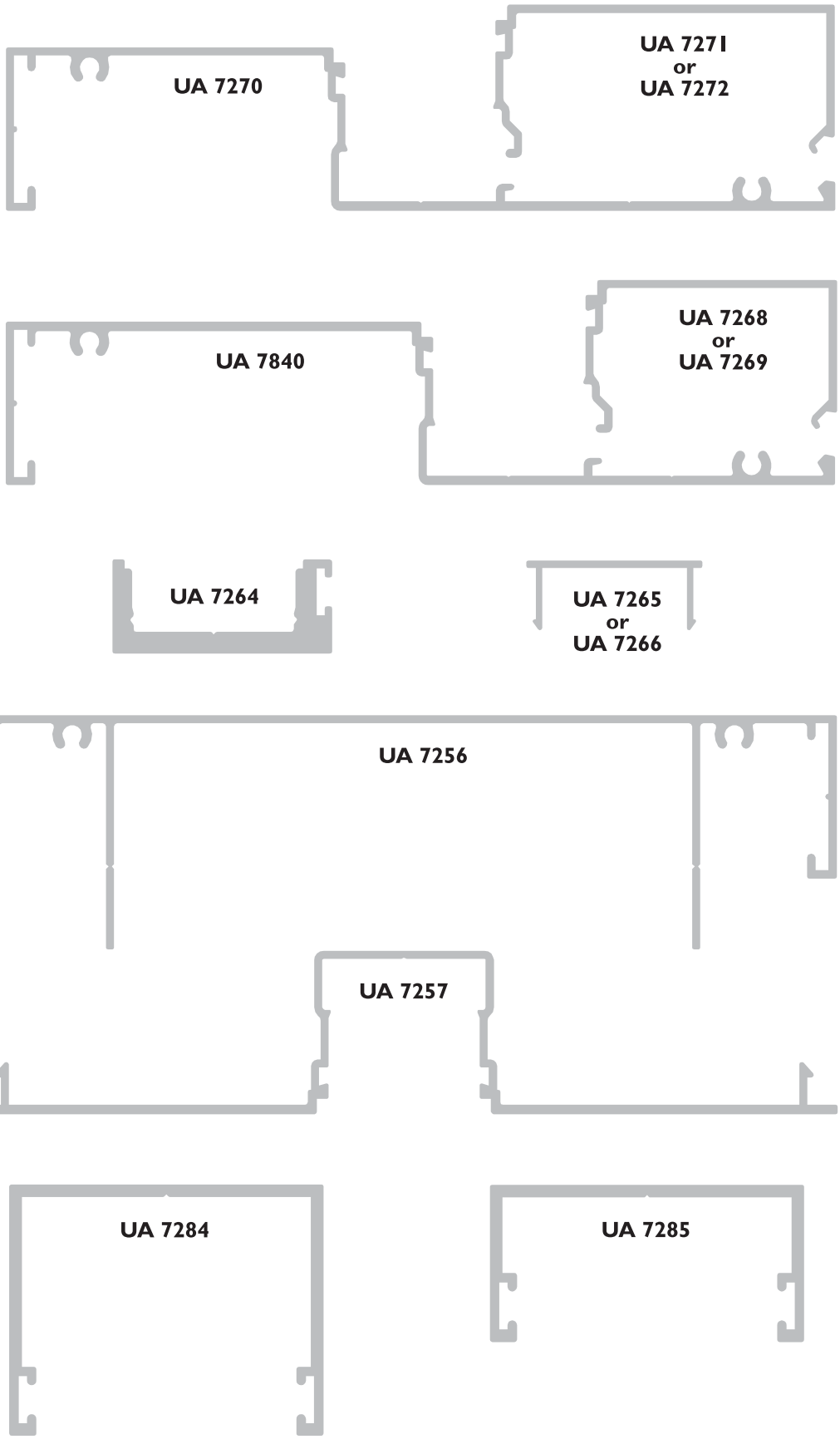
UA 7268
GLAZING BEAD
If Powdercoated
kg/m 0.324 P 184
OAD 40 x 24.35

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



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

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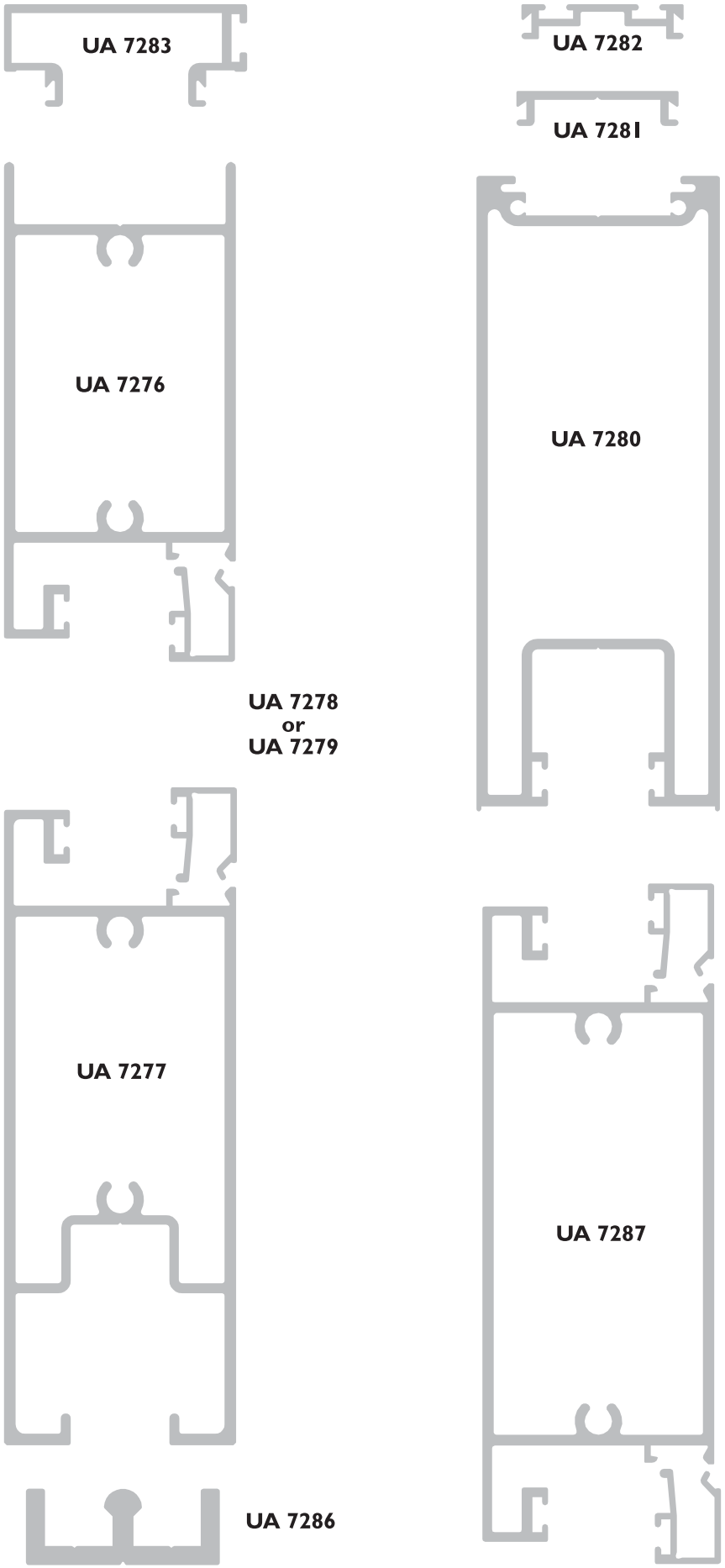

UA 7276
DOOR TOP RAIL
kg/m 1.133 P 294
OAD 75 x 36.5

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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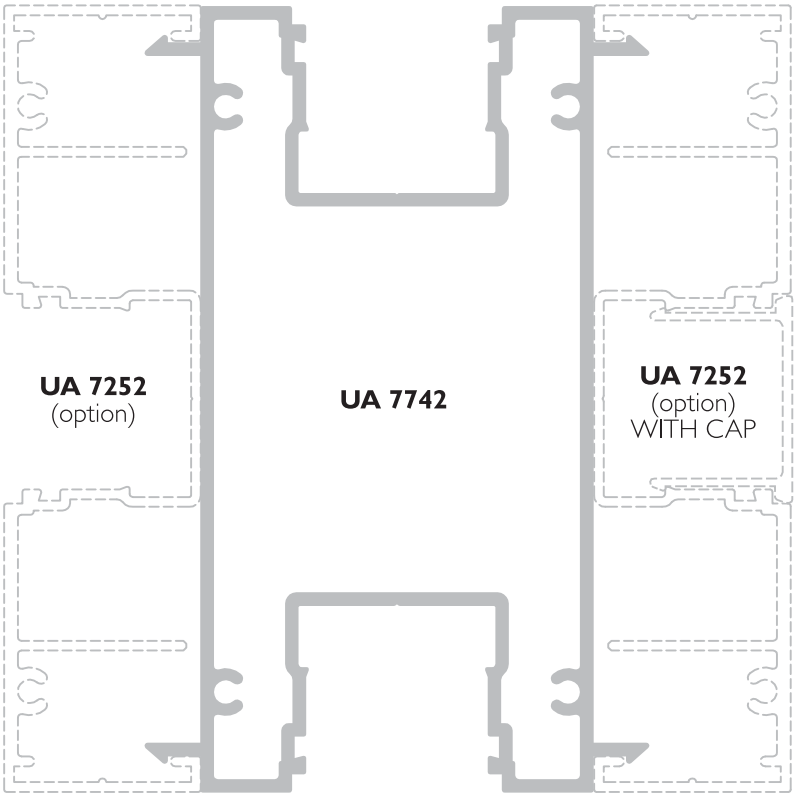
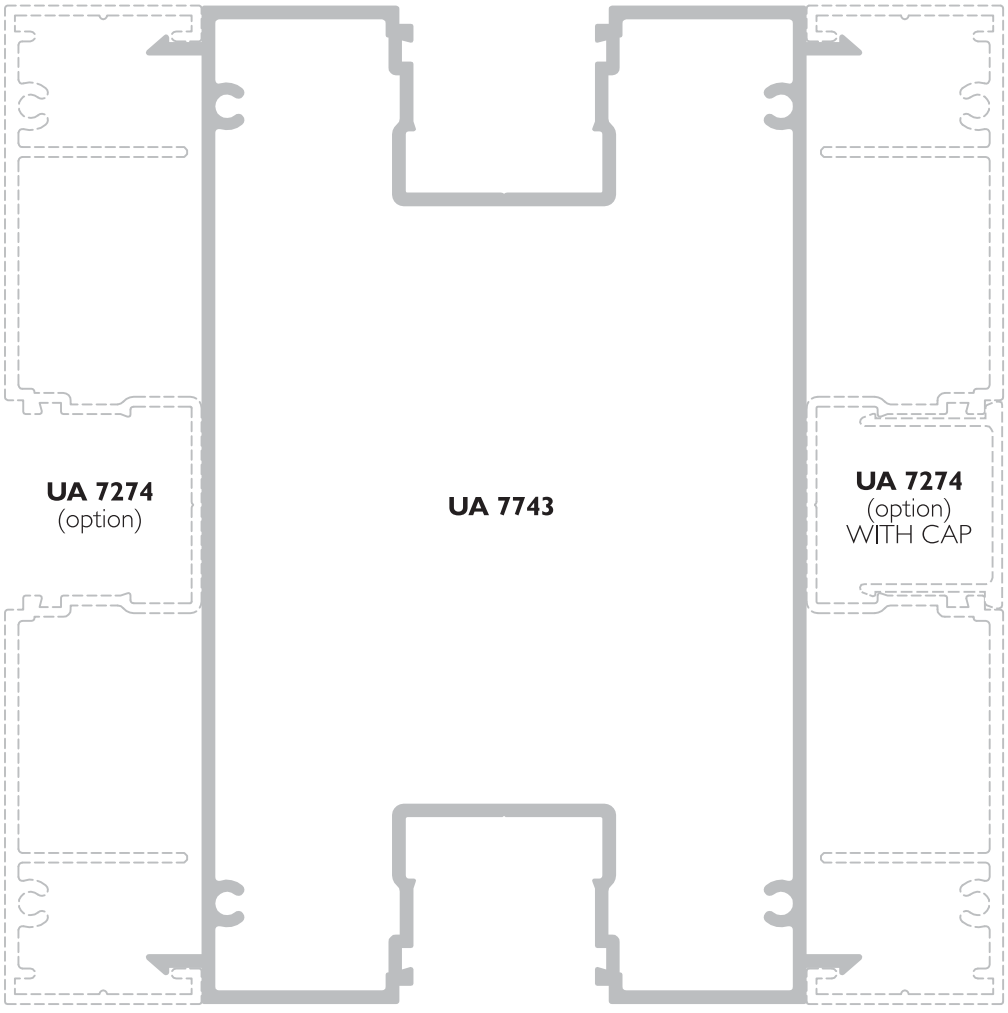
UA 7742
104mm RECESSED
GLAZING MULLION POST
kg/m 2.310 P 490
OAD 104 x 66.73

UA 7743
132mm RECESSED
GLAZING MULLION POST
kg/m 2.854 P 602
OAD 132 x 94.73





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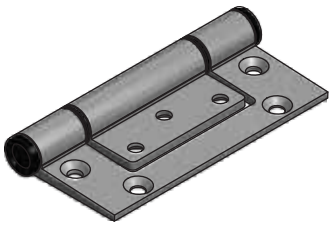
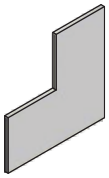
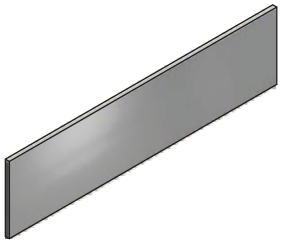


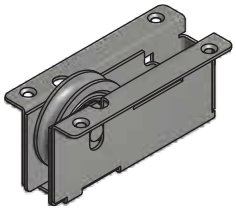
TAPERED FLUSH HINGE
Anodised Silver
Code: HFSAT



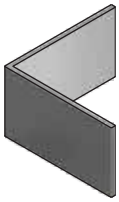
PARTITION GUSSET
Mitre Corner, Vertical
Code: PARTGUSS22.5
PKT 50



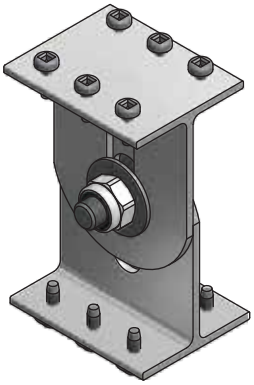
SPLICE PLATE
Butt Joint
Code: PARTSPLICE23
PKT 50



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

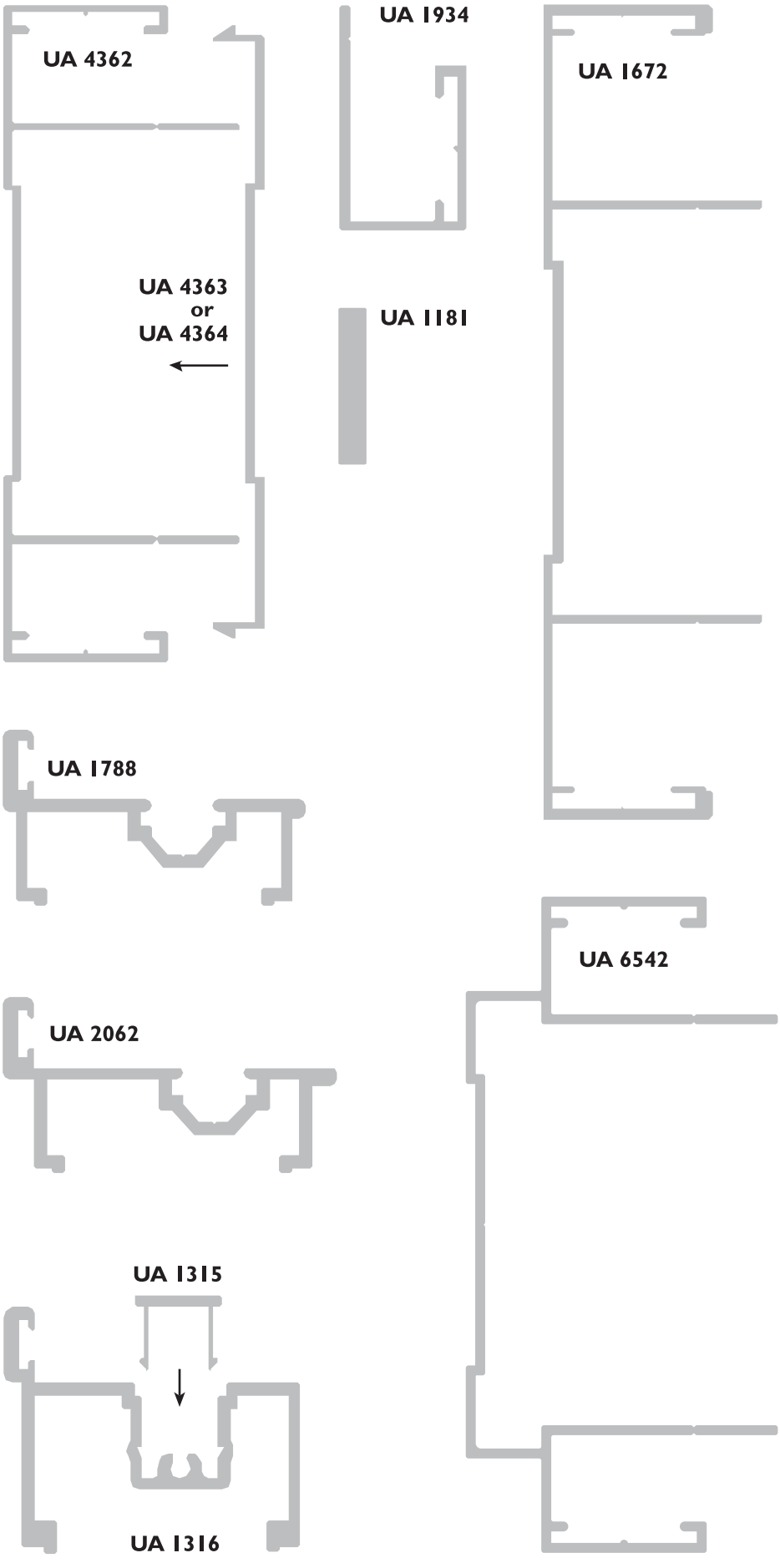
UA 2062
DOOR JAMB - 45mm Door
kg/m 0.690 P 243
OAD 53 x 27

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



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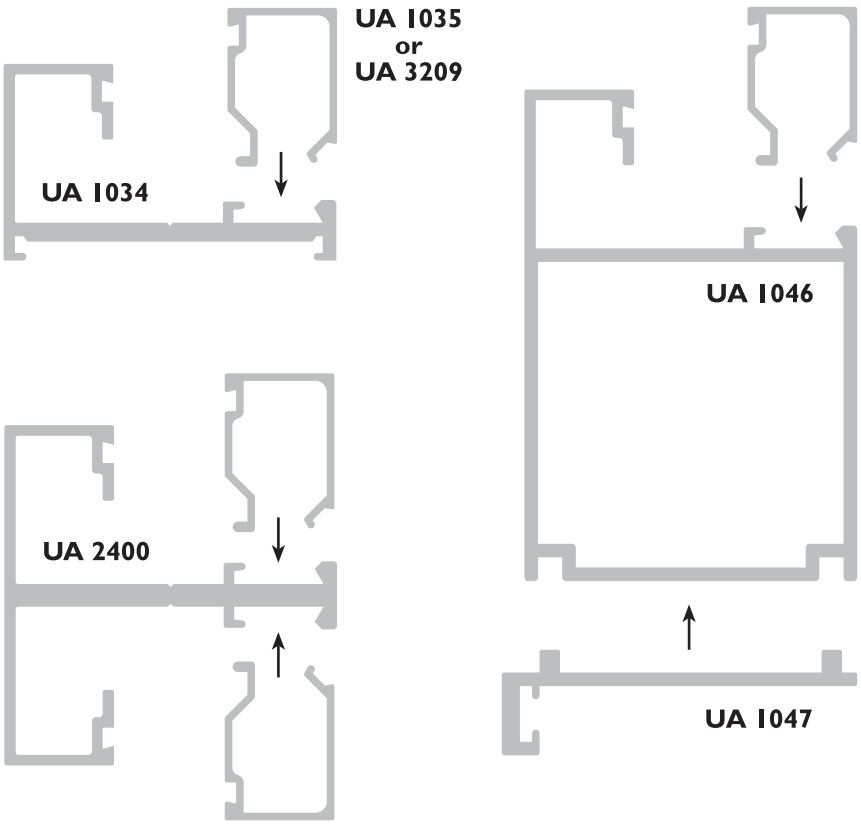

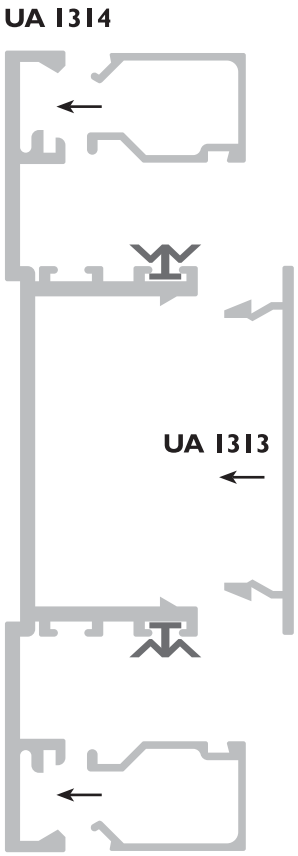

UA 1034
GLAZING BAR BASE
kg/m 0.533 P 210
OAD 44 x 26

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

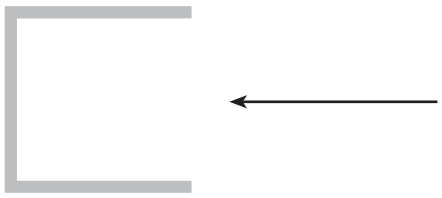
UA 6453
18mm JOINTER
kg/m 0.389 P 194
OAD 38.5 x 21.6

UA 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

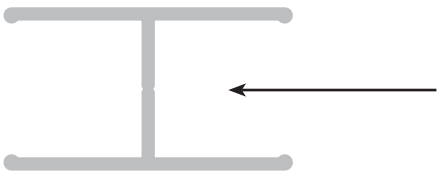
UA 7025
11mm INSERT
kg/m 0.222 P 107
OAD 21.6 x 13.6

UA 1573



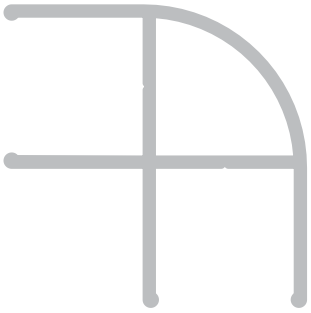
UA 5949

UA 6453



UA 7025

UA 6455



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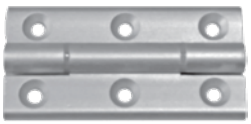

ALUMINIUM FLAT BUTT HINGE
75mm SATIN FINISH
Code: HA3S

UC 1914 PARTITION FOOT
PLATFORM HEIGHT: 150mm

SURFACE MOUNT INDICATOR BOLT SET Code: 11461

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.

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

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UA 1341
SLIDING DOOR TRACK
kg/m 0.083 P 37
OAD 12 x 7

UA 1342
3mm SPLIT TEE
kg/m 1.035 P 226
OAD 57 x 32

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

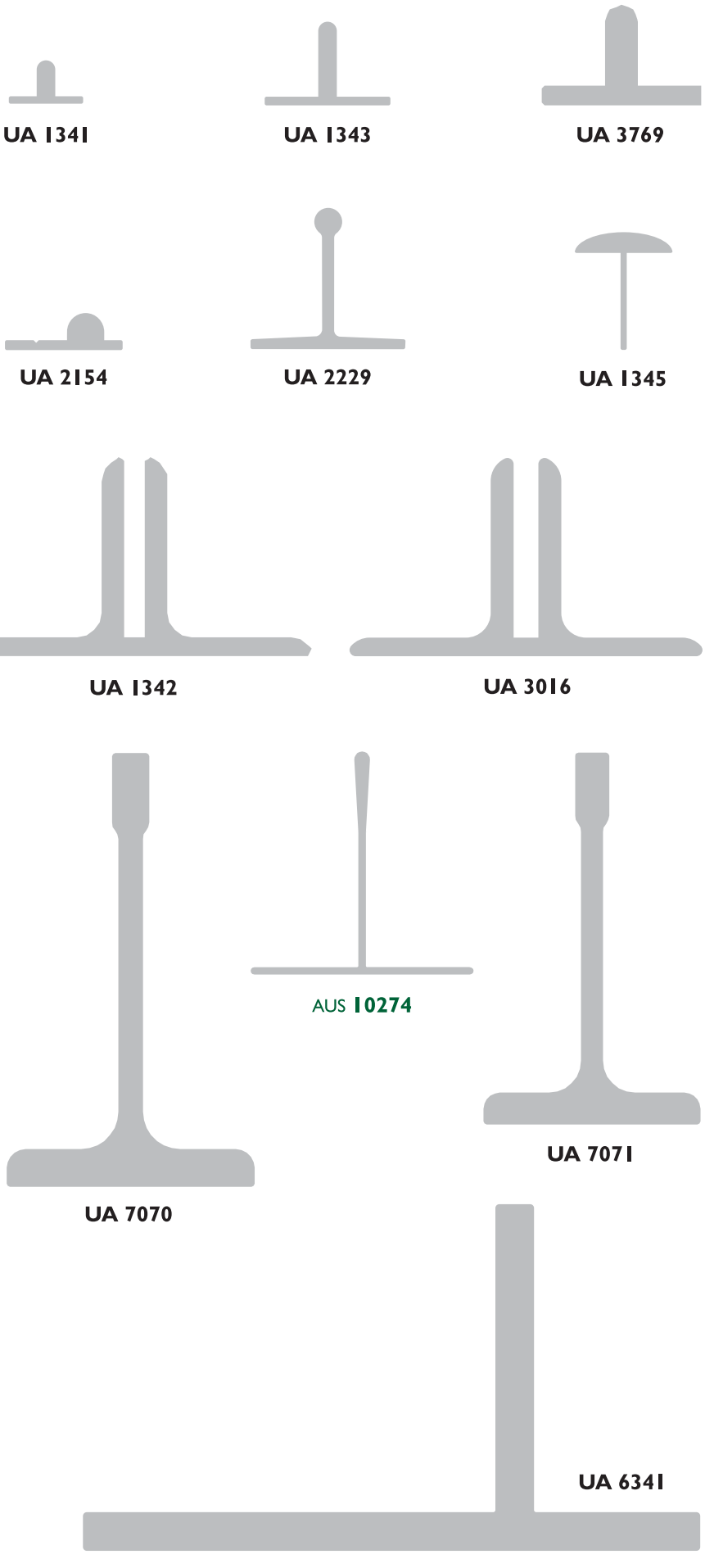
UA 3769
SLIDING DOOR TEE
k/gm 0.364 P 80
OAD 25.4 x 15.9

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



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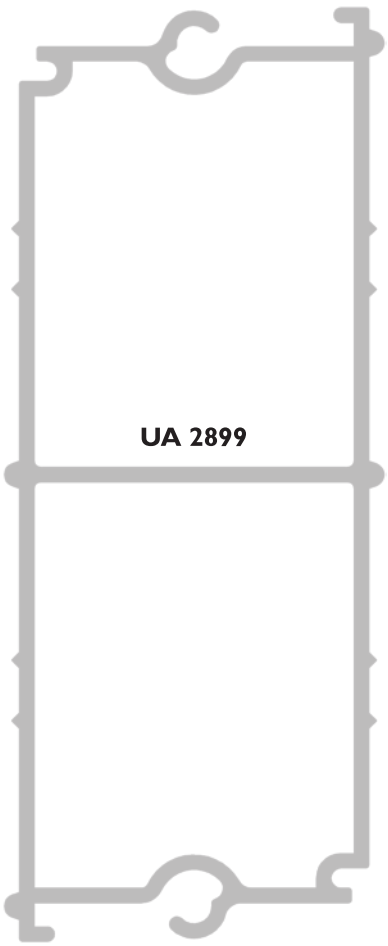

UA 2899
PLANK - DECK EXTENSION
kg/m 2.039 P 419
OAD 122.8 x 50

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

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ULLRICH ALUMINIUM

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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

UA 2000 **UA 2039** **UA 1359**

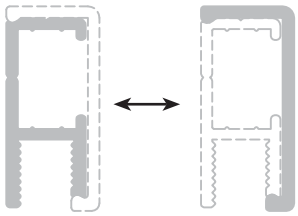
PICTURE FRAME ASSEMBLY CORNER SETS
Available
Code: PICCORNERSET

UA 3006

UA 1350 **UA 1351**

PLASTIC CURTAIN GLIDES
Available for: UA 1350, UA 1351
Code: CURGLIDESW
CURENDSW

UA 6861 **UA 6862**



MIRROR MOUNT PLASTIC END CAPS
Available
Code: W104

UA 2906

UA 7713

UA 2759 **UA 4130** **UA 3703**

UA 2221

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

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AUS **5641**

UA 4050

UA 1356

UA 1353

UA 1354

UA 1352

UA 1363

UA 1643

UA 1950

UA 1492

UA 1352
6mm GLASS SILL
kg/m 0.182 P 99
OAD 32 x 9.5

UA 1353
6mm GLASS TRACK Top
kg/m 0.232 P 131
OAD 23 x 14

UA 1354
6mm GLASS TRACK Base
kg/m 0.179 P 99
OAD 23 x 8

UA 1356
6mm GLASS JOINTER
kg/m 0.159 P 82
OAD 16 x 10.5

UA 1363
16mm CUPBOARD PULL
kg/m 0.314 P 130
OAD 34 x 18

UA 1492
SCALLOP MOULD
kg/m 0.729 P 131
OAD 63.5 x 6.35

UA 1643
16mm DRAWER PULL
kg/m 0.546 P 164
OAD 44 x 17.4

UA 1950
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 **5641**
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

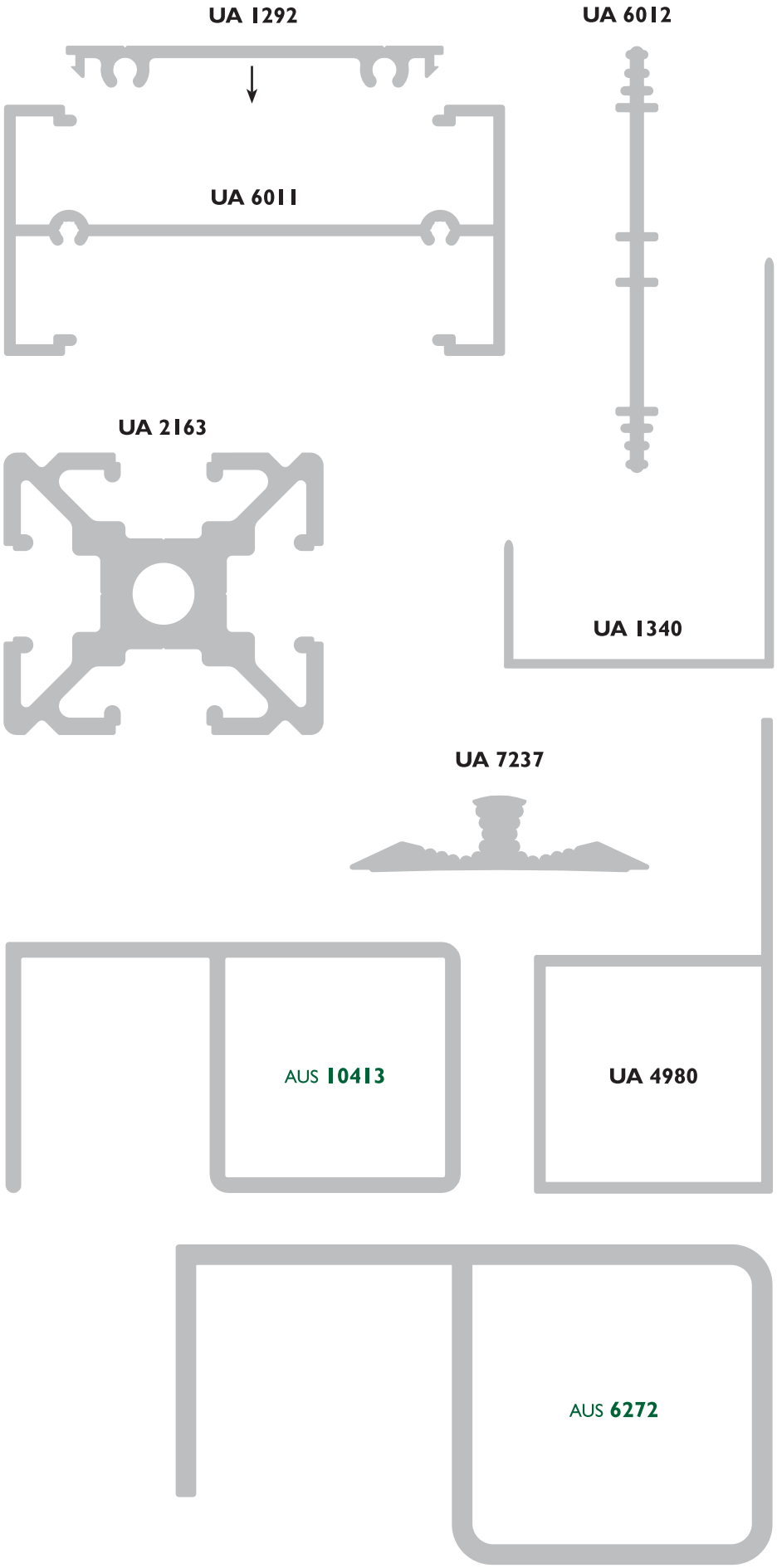
UA 6011
GLASS BLOCK FRAME
kg/m 0.917 P 428
OAD 80 x 40

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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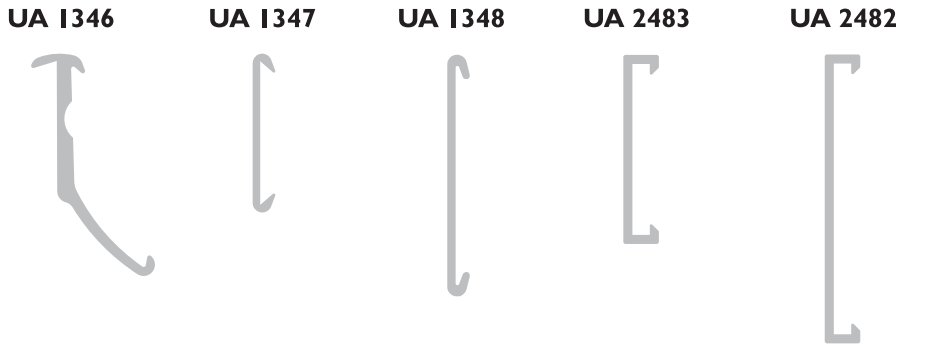

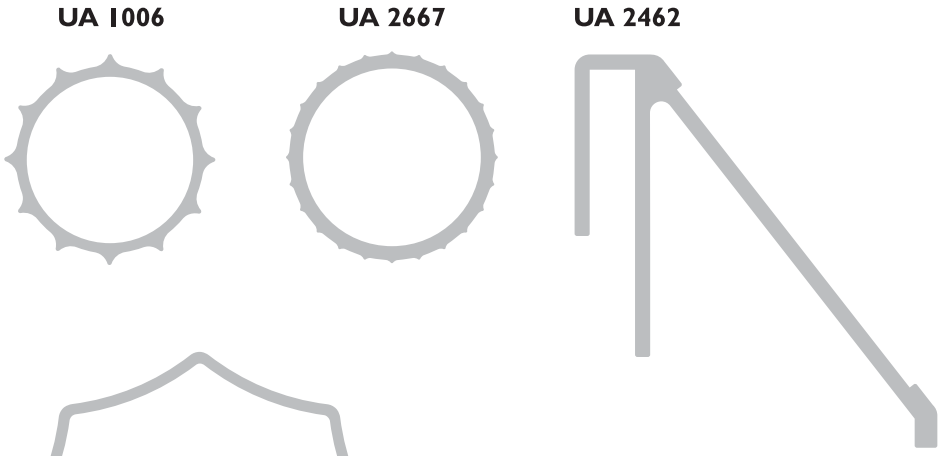

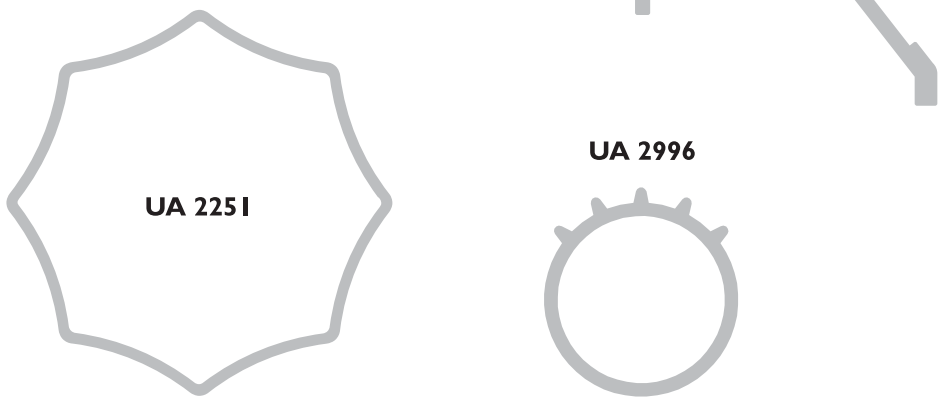

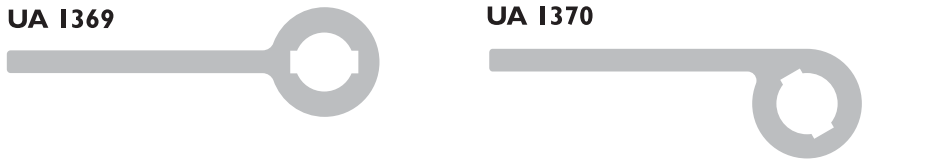

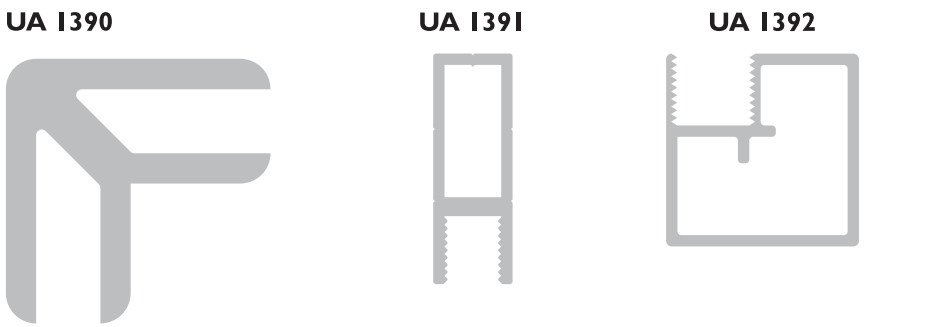

UA 2996
LADDER RUNG
kg/m 0.406 P 96
OAD 27.7 x 25.7

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

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

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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

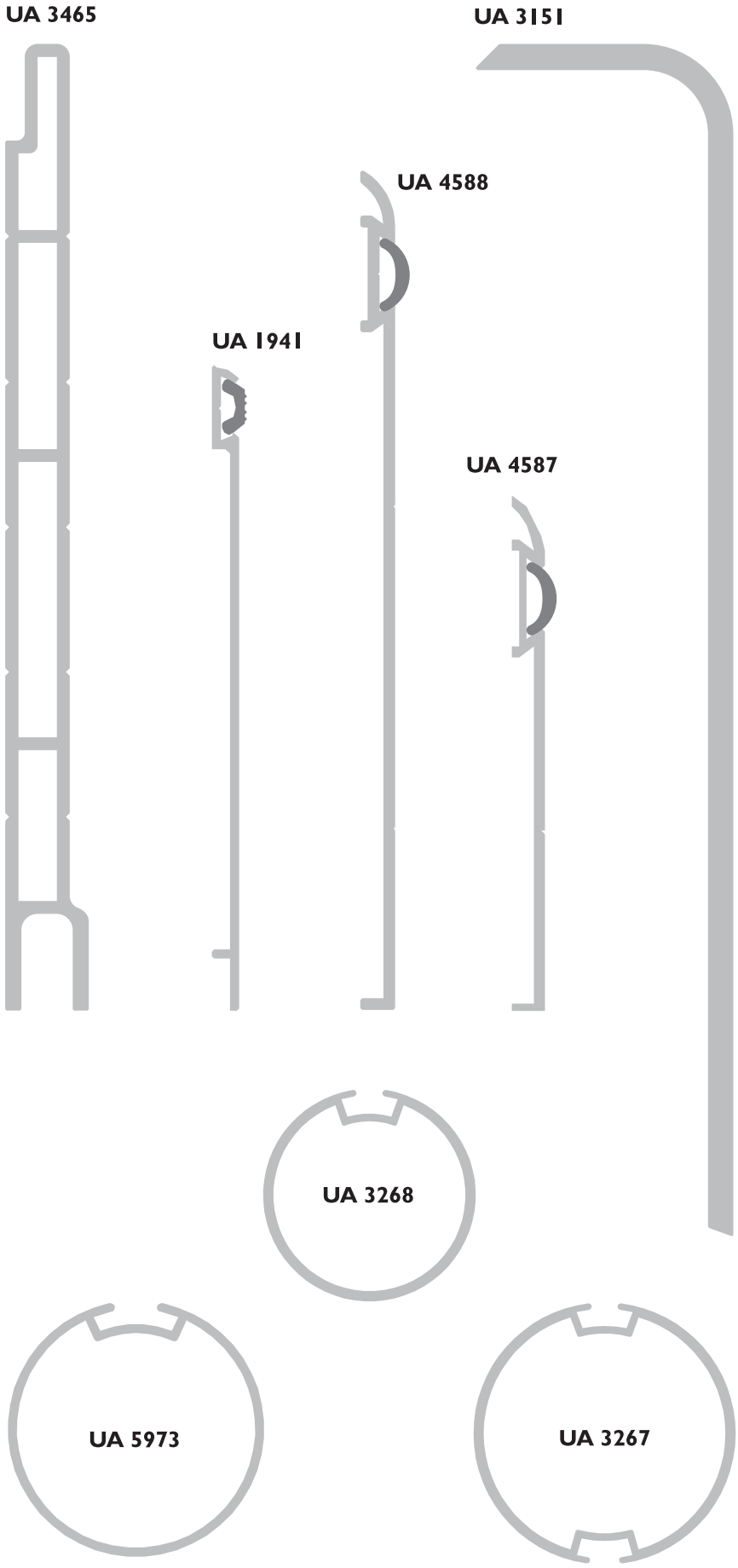
UA 3268
BLINDS ROLLER
kg/m 0.444 P 119
OAD 33 x 32.8

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



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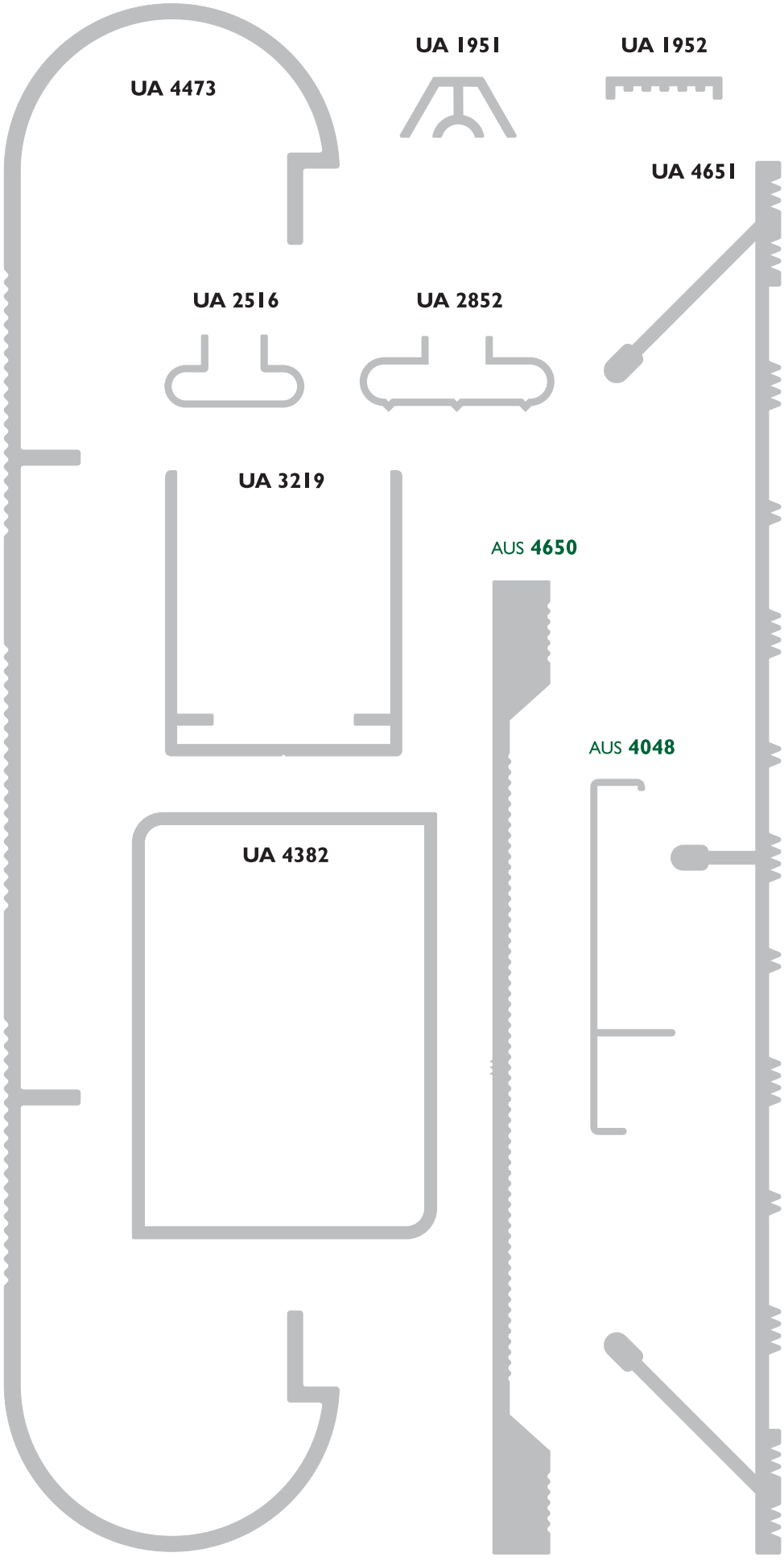

UA 1951
COLONIAL BEAD
kg/m 0.174 P 84
OAD 19.2 x 10

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

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

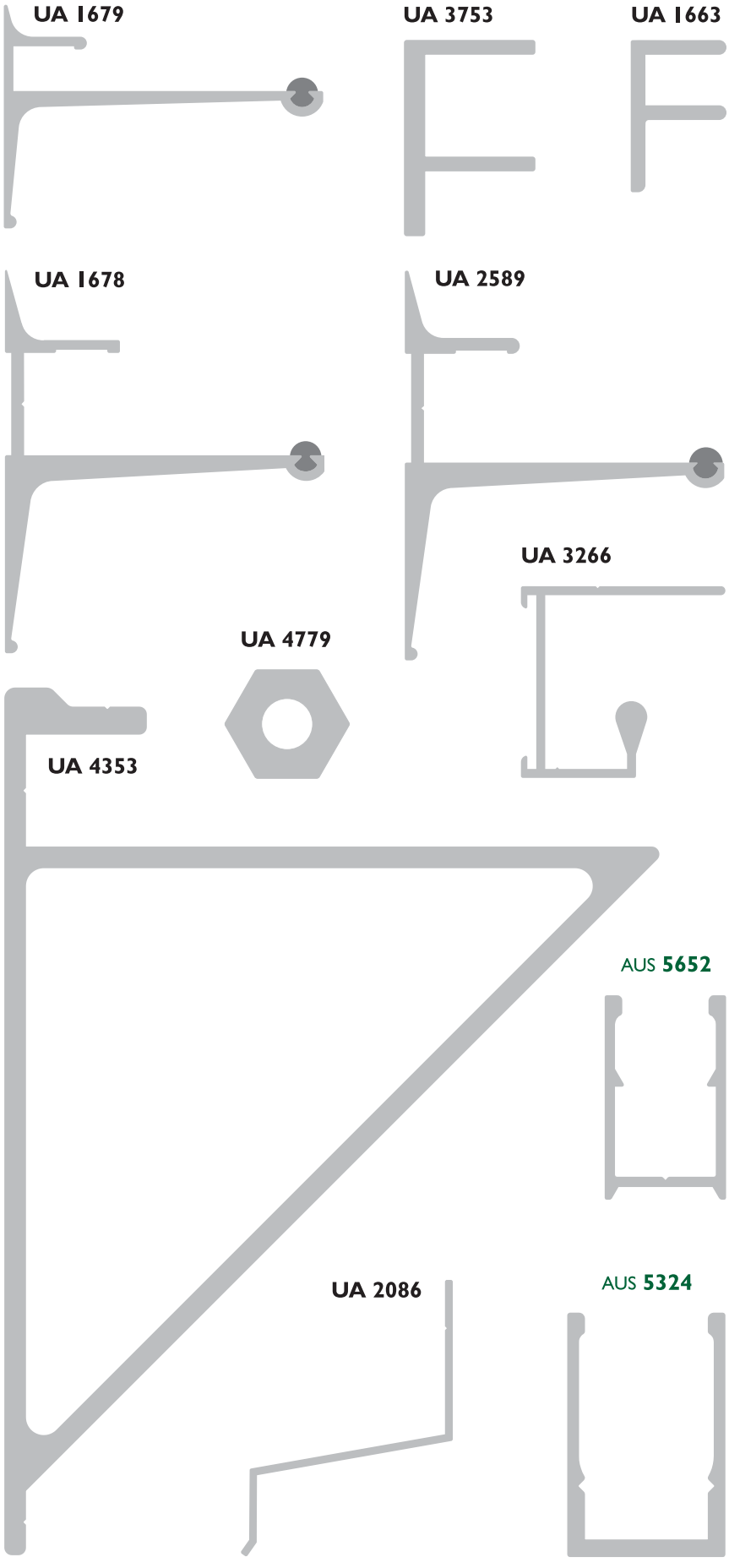
UA 3753
16mm F - SECTION
kg/m 0.426 P 134
OAD 30 x 20

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



INFILLS SOLD SEPARATELY

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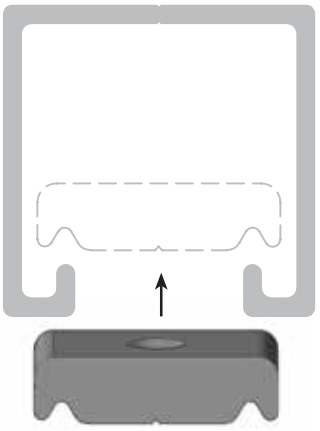
AUS **10134**

AUS **5570**

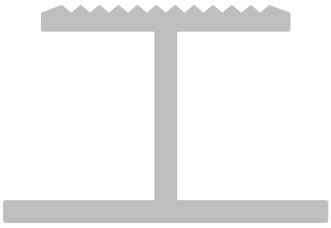
AUS **8288**



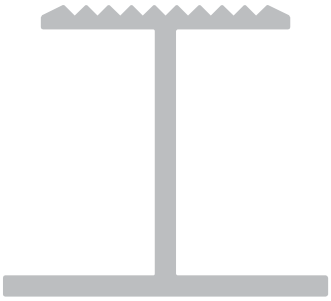
STRUT CHANNEL NUT
Code: SCN

AUS **10049**

AUS **10050**



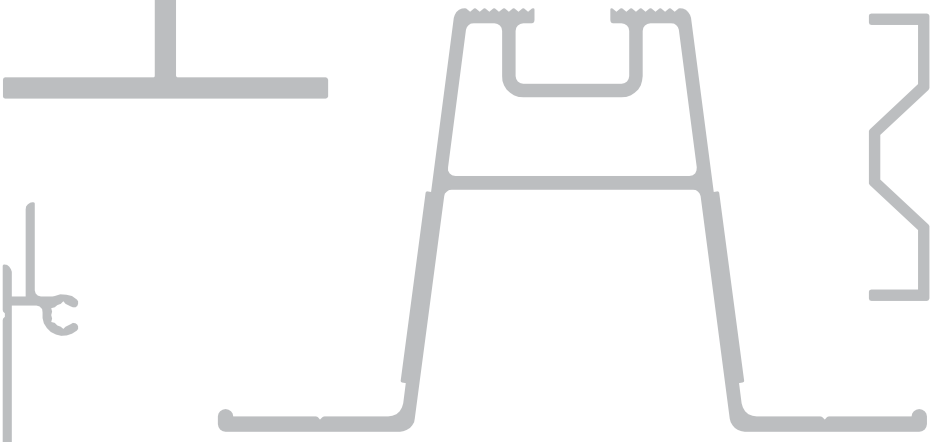
AUS **10051**



AUS **10052**

AUS **6357**

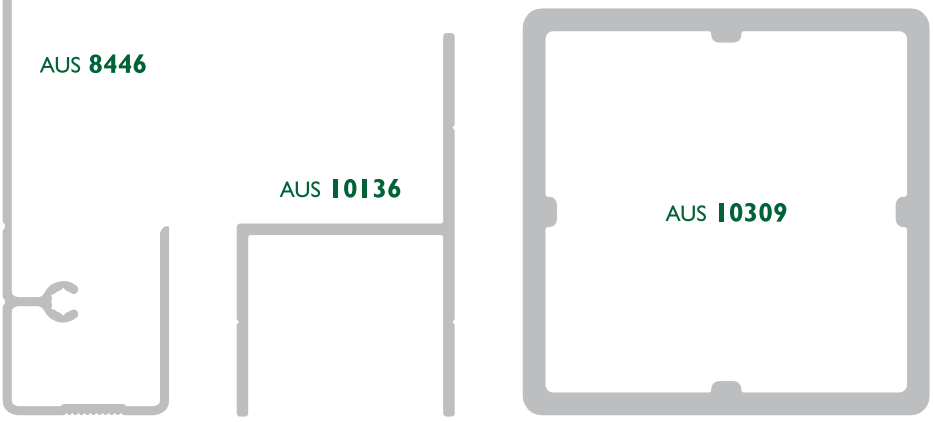
AUS **8222**



AUS **8446**

AUS **10136**

AUS **10309**



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

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

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

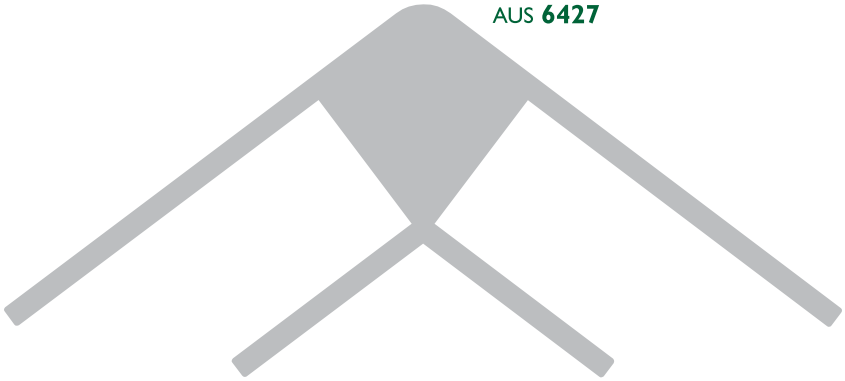
AUS **6429**
164° HONEYCOMB JOINER
kg/m 1.371 P 303
OAD 68.53 x 31.01

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

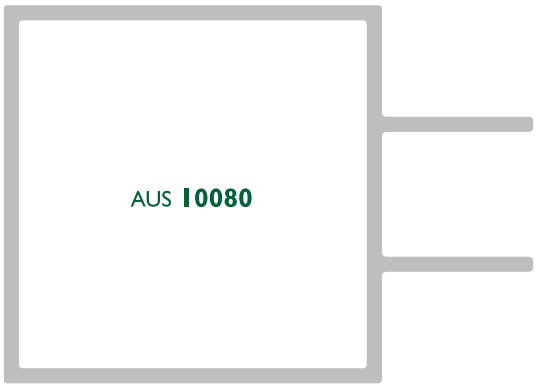
AUS **6427**



AUS **6429**

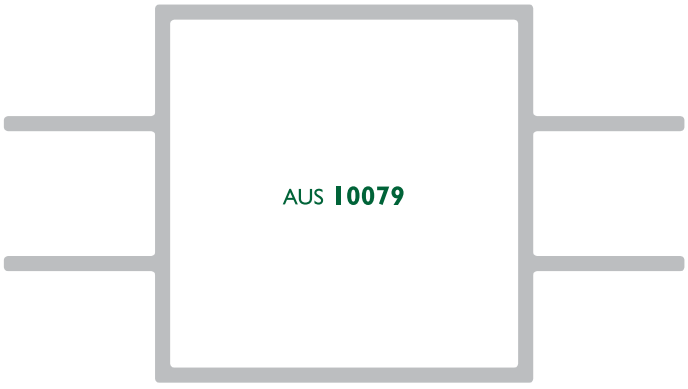
AUS **6428**

AUS **10080**



AUS **8582**
Self Mating

AUS **10079**



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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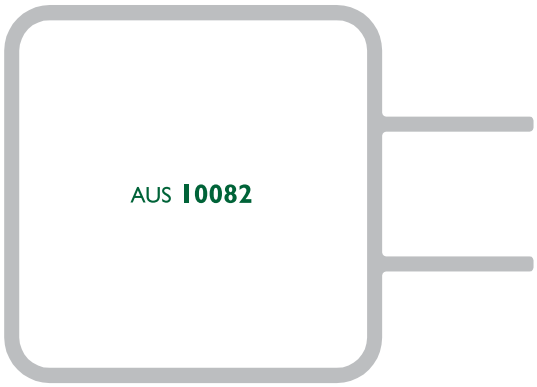

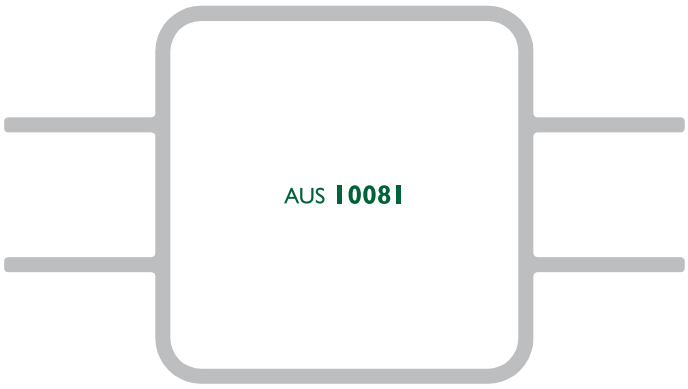

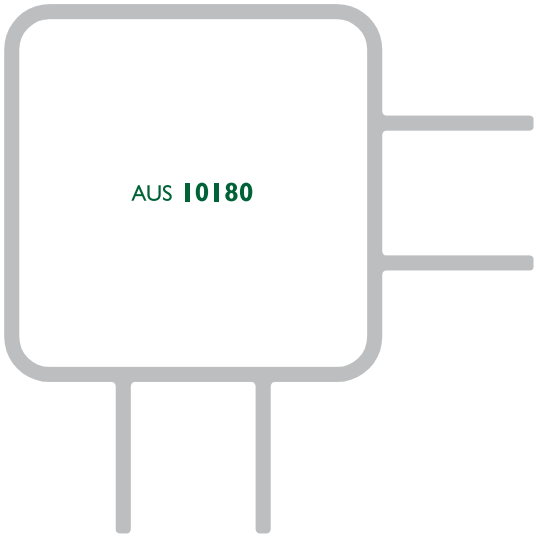

AUS 10081
POST-1 RADIUS
kg/m 1.422 P 347
OAD 90 x 50

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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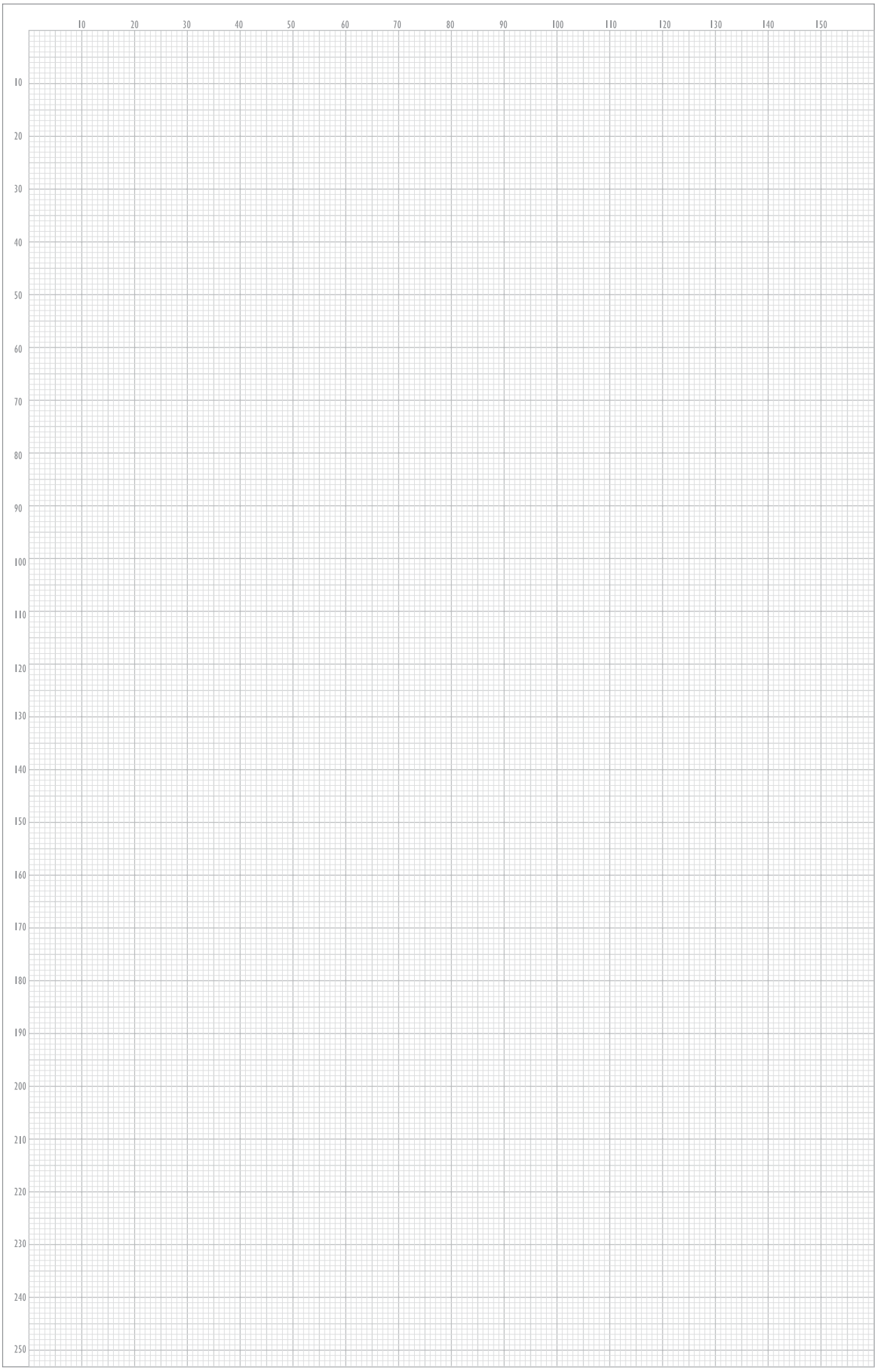
PLANNING GRID AND NOTES



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

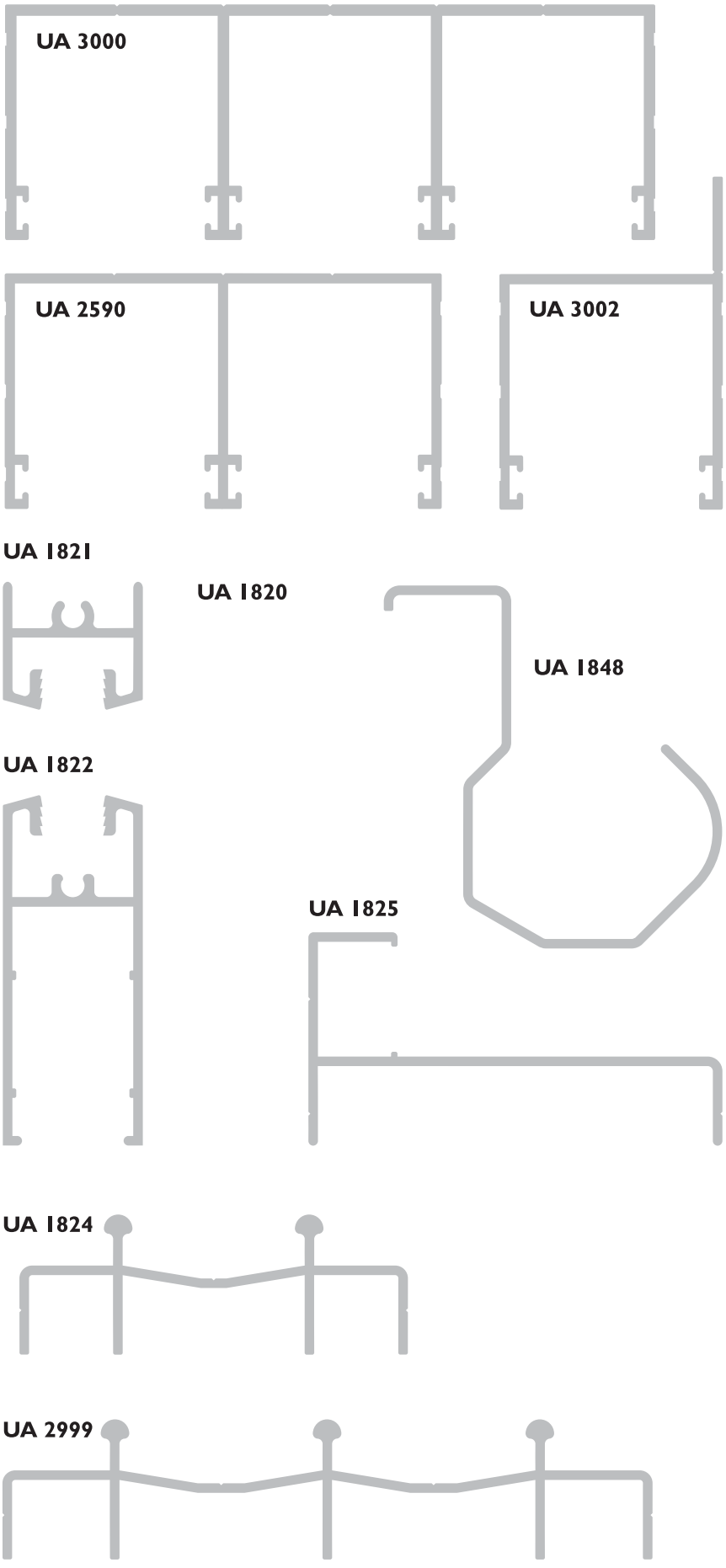
UA 1848
COAT HANGER RAIL
kg/m 0.553 P 277
OAD 57 x 52.5

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



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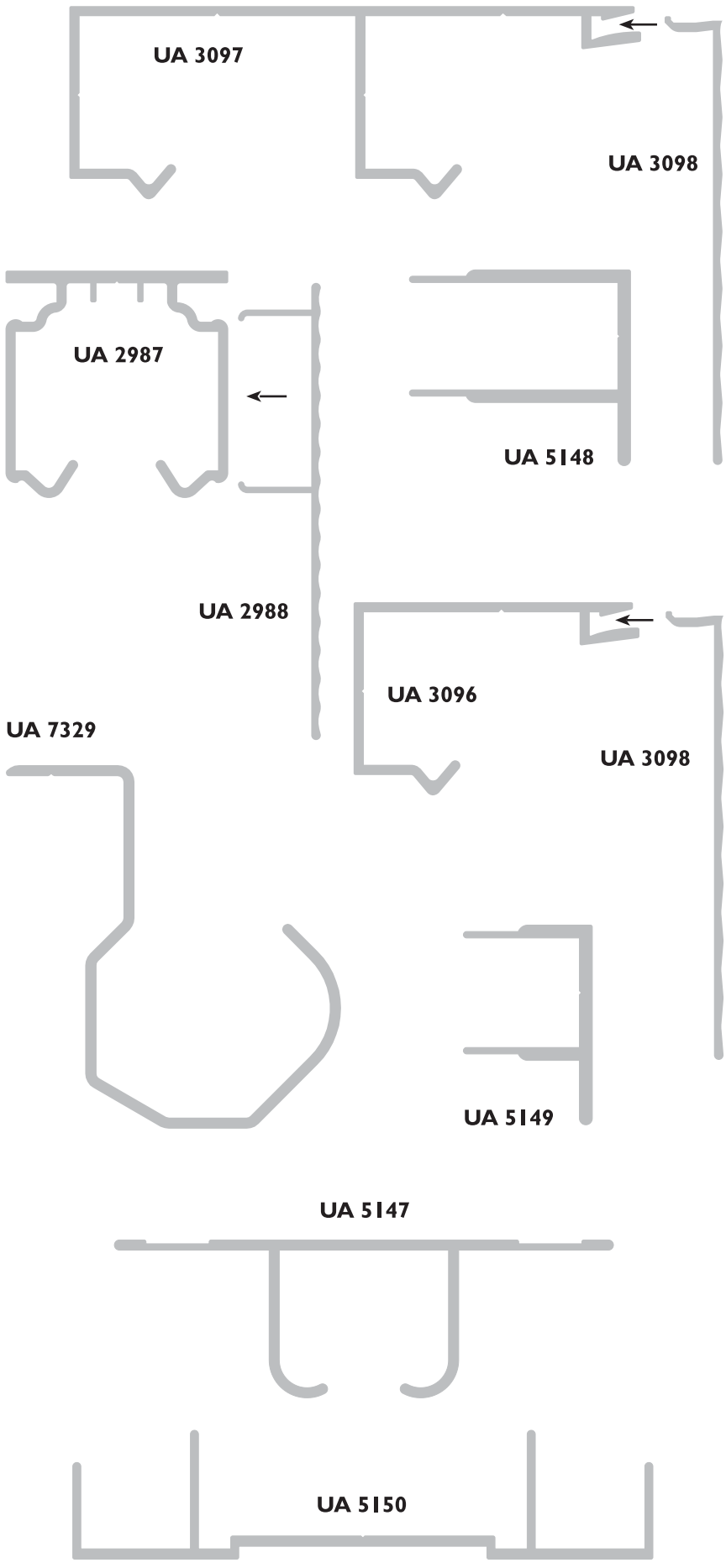

UA 2987
SLIDING DOOR TRACK
kg/m 0.629 P 279
OAD 35.8 x 35.05

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

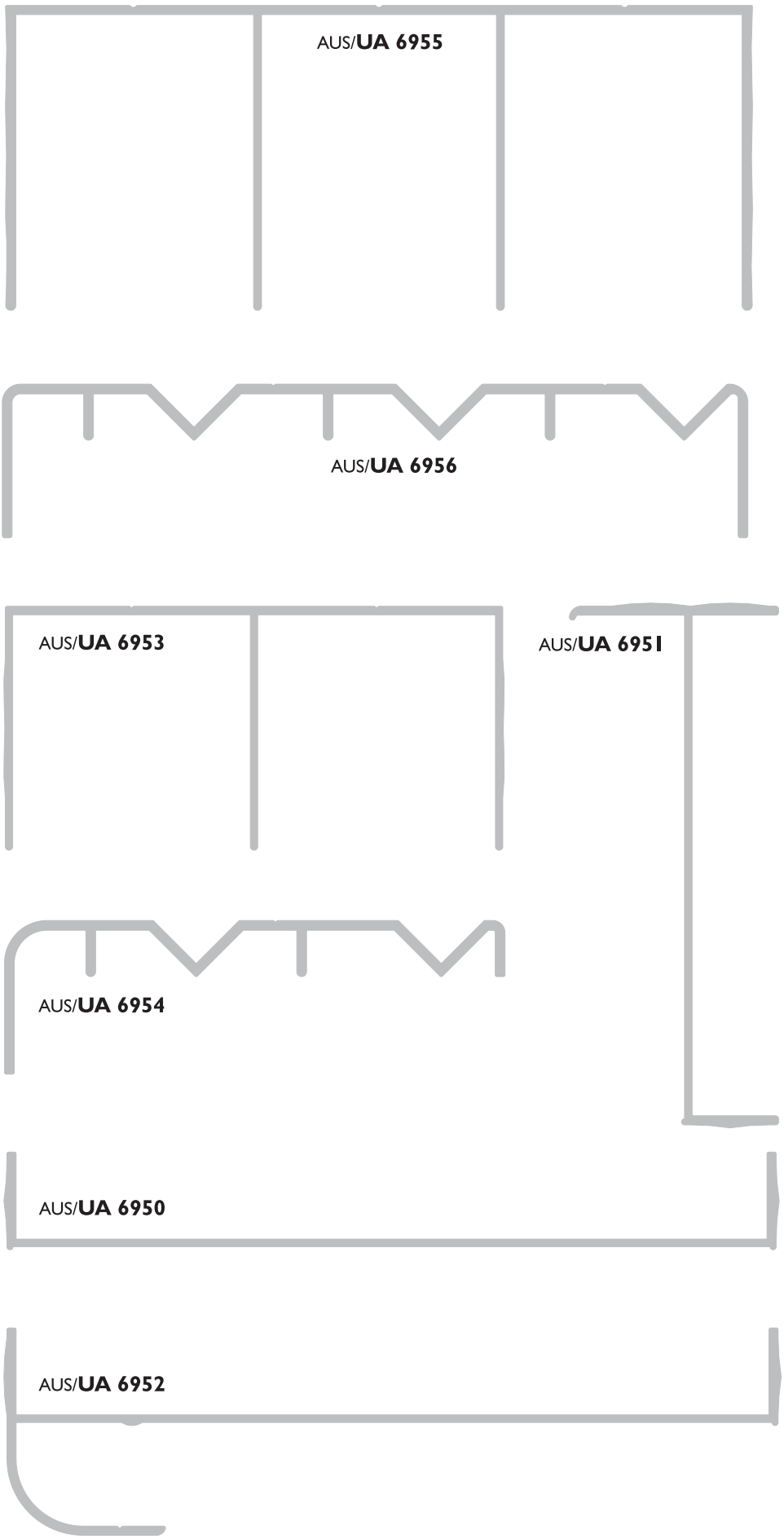
AUS/**UA 6952**
RETURN JAMB
kg/m 0.716 P 389
OAD 126.5 x 34

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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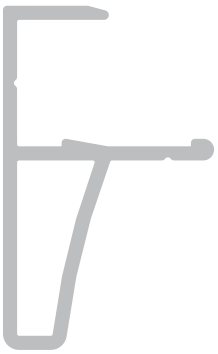
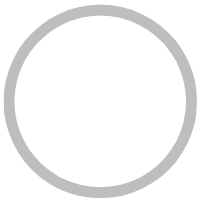
AUS/**UA 6556**



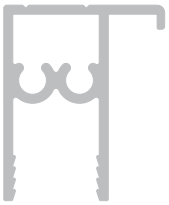
AUS/**UA 6957**

UA 2027



AUS/**UA 6971**

AUS/**UA 6969**



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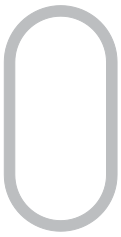

UA 2943

AUS/**UA 6959**

AUS/**UA 6958**

AUS/**UA 8560**

ACCESSORIES:

WVG300 DOOR ROLLER
Code: WARDVGBEARING

WVG100 HEAD GUIDE
Code: WARDVGGUIDEWHPR

WVG130WH OVAL RAIL BRACKET
Code: WARDVGOVALBKTWH

WA200CL 4mm GLAZING CHANNEL
Code: WARDVGGLASSFR

WVG200 STILE BUFFER STRIP
Code: WARDVGBUFFERFR

AUS/**UA 8767**

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 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

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 6971**
TRIM CHANNEL
kg/m 0.197 P 117
OAD 20.2 x 19.2

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

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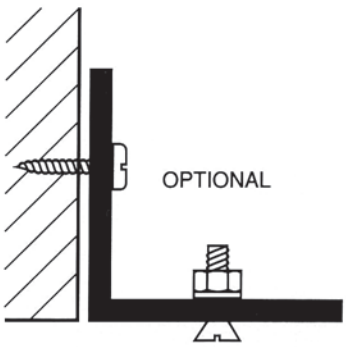
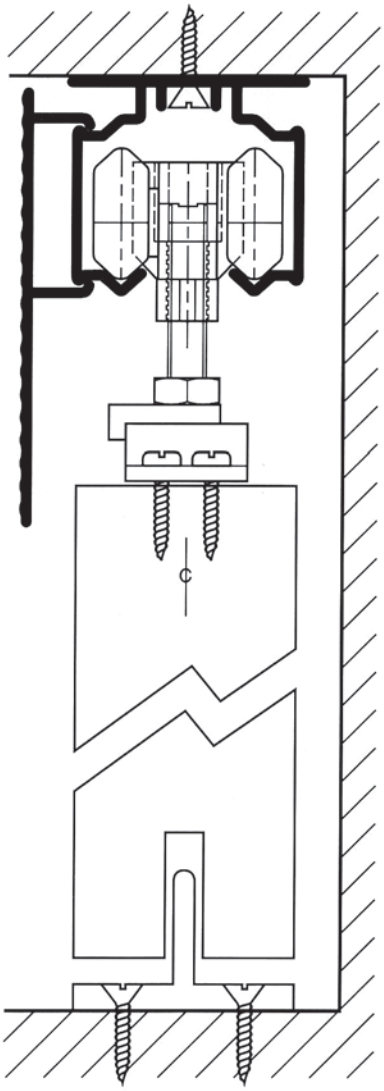
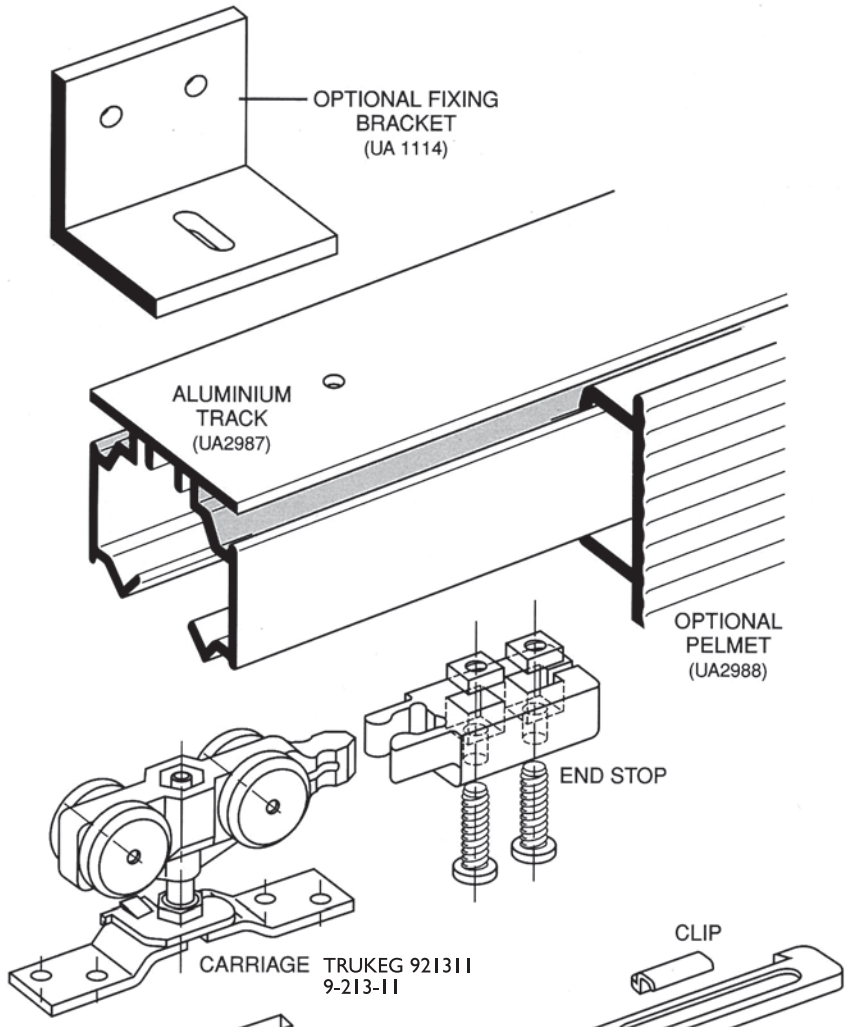
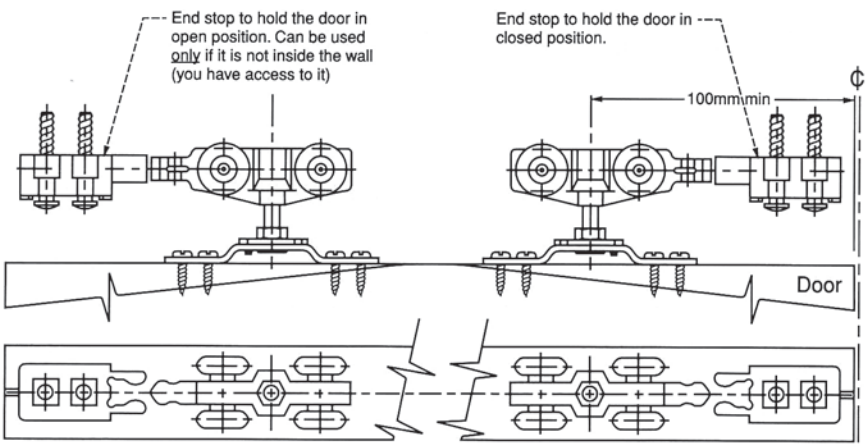
CAVITY SLIDING TRACK - ASSEMBLY DETAILS 1









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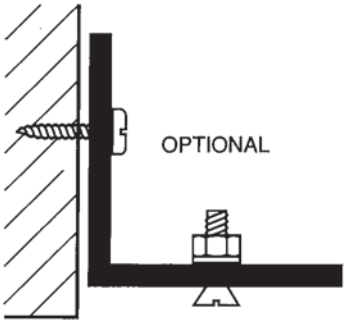

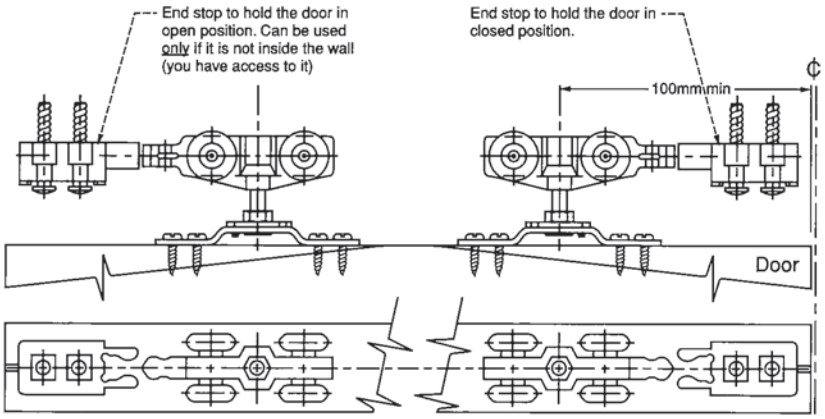

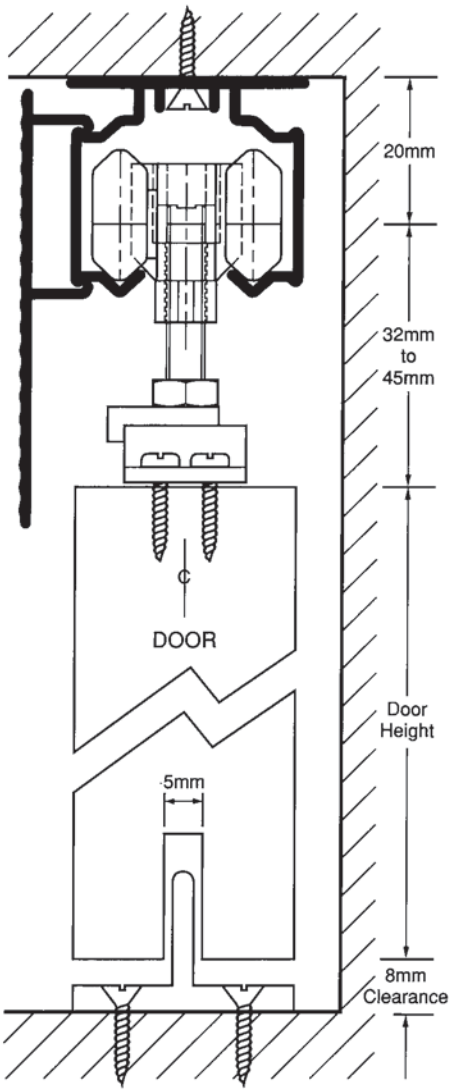

TRACK AND PELMET SOLD AS INDIVIDUAL LENGTHS ONLY

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.
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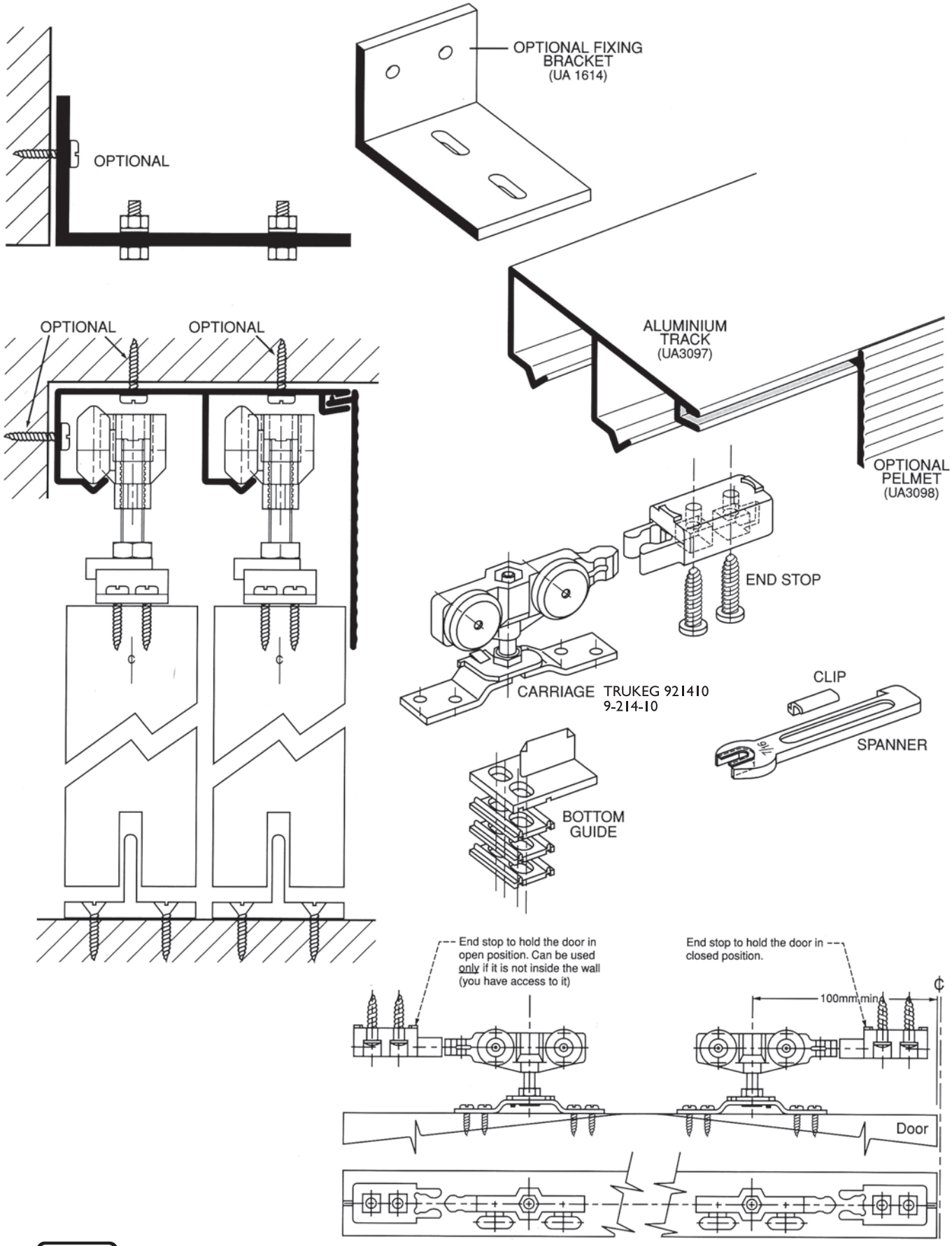
DOUBLE SLIDING TRACK - ASSEMBLY DETAILS 1



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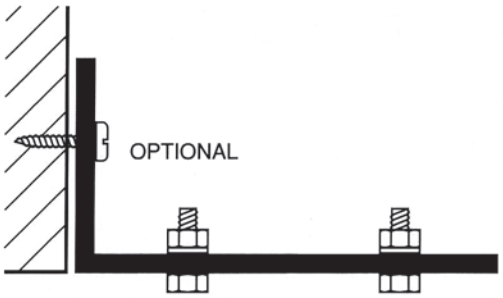

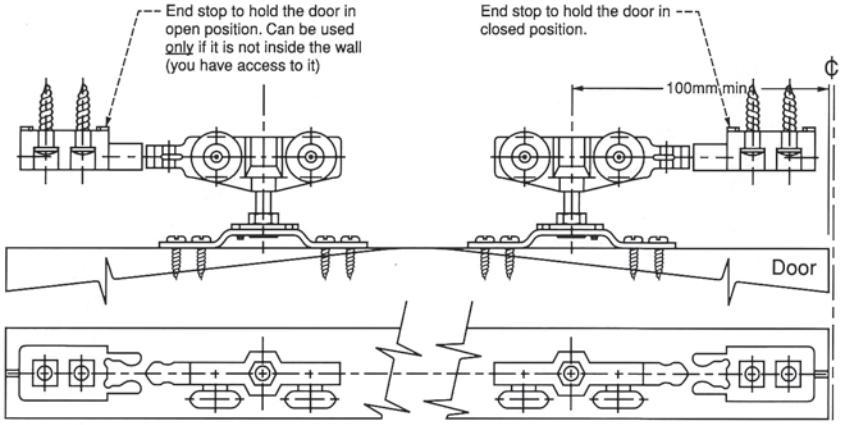

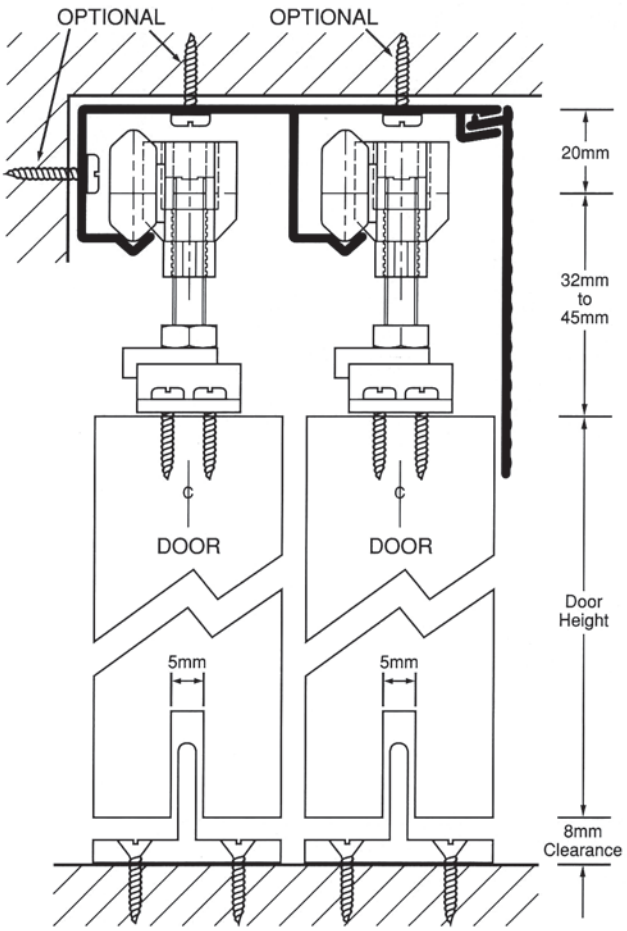

TRACK AND PELMET SOLD AS INDIVIDUAL LENGTHS ONLY

BOXED SET OF COMPONENTS INCLUDES
2 CARRIAGES
2 END STOPS
1 BOTTOM GUIDE SET
1 SPANNER AND CLIP
SCREWS

OPTIONAL FIXING BRACKET EACH

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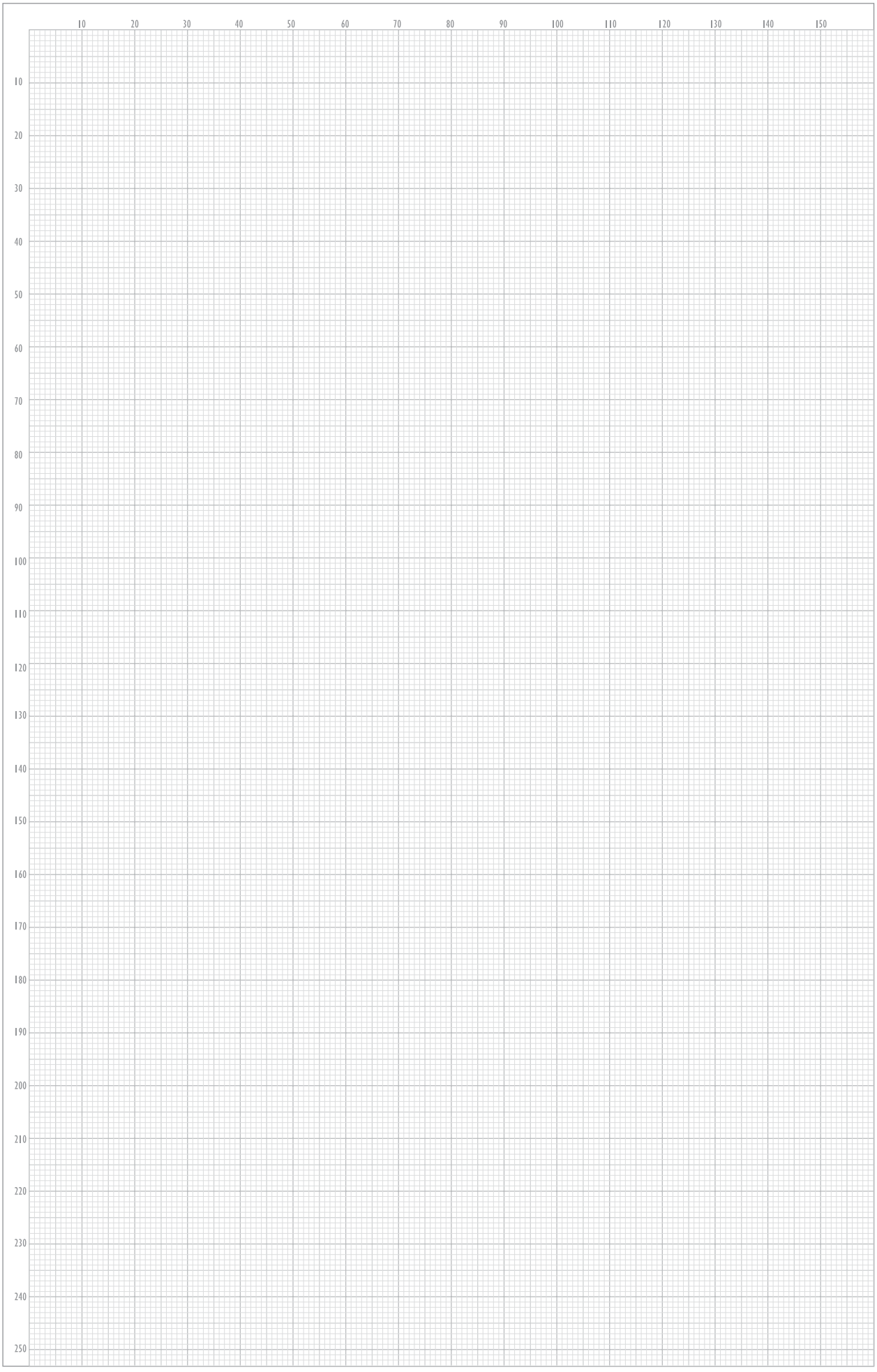
PLANNING GRID AND NOTES



DIE No	DESCRIPTION
UA 1310	DRAFT EXCLUDER
UA 1349	DRAFT EXCLUDER
UA 1438	THRESHOLD
UA 1521	DOOR SEAL TOP
UA 1522	DOOR SEAL BOTTOM

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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OAD = OVERALL DIMENSIONS
P = EXT PERIPHERY

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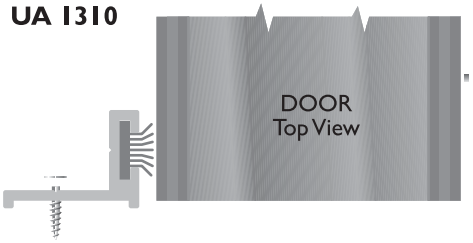
UA 1310
DRAFT EXCLUDER
kg/m 0.145 P 75
OAD 18 x 13

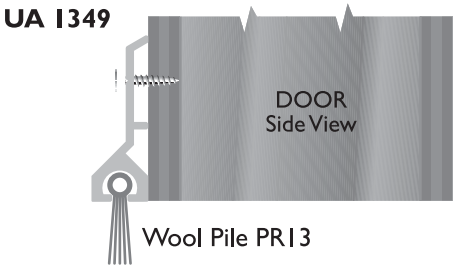
UA 1349
DRAFT EXCLUDER
kg/m 0.123 P 72
OAD 22 x 7.5

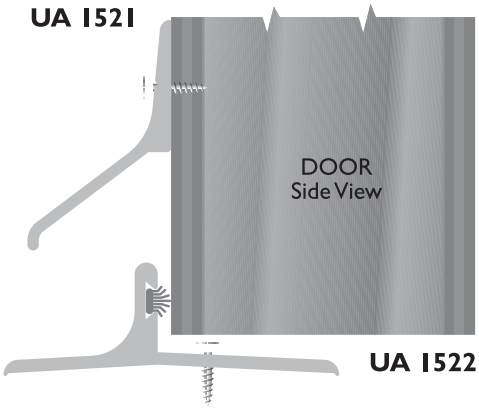
UA 1438
THRESHOLD
kg/m 0.530 P 239
OAD 70 x 9 Infills 4126,111

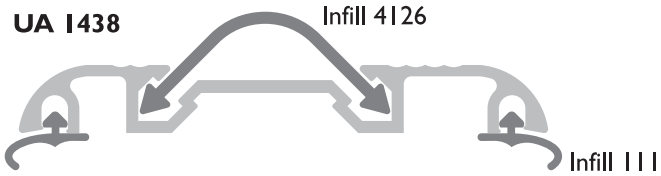
UA 1521
DOOR SEAL TOP
kg/m 0.197 P 81
OAD 30.5 x 19

UA 1522
DOOR SEAL BOTTOM
kg/m 0.290 P 117
OAD 44.4 x 15









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INFILLS SOLD SEPARATELY

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

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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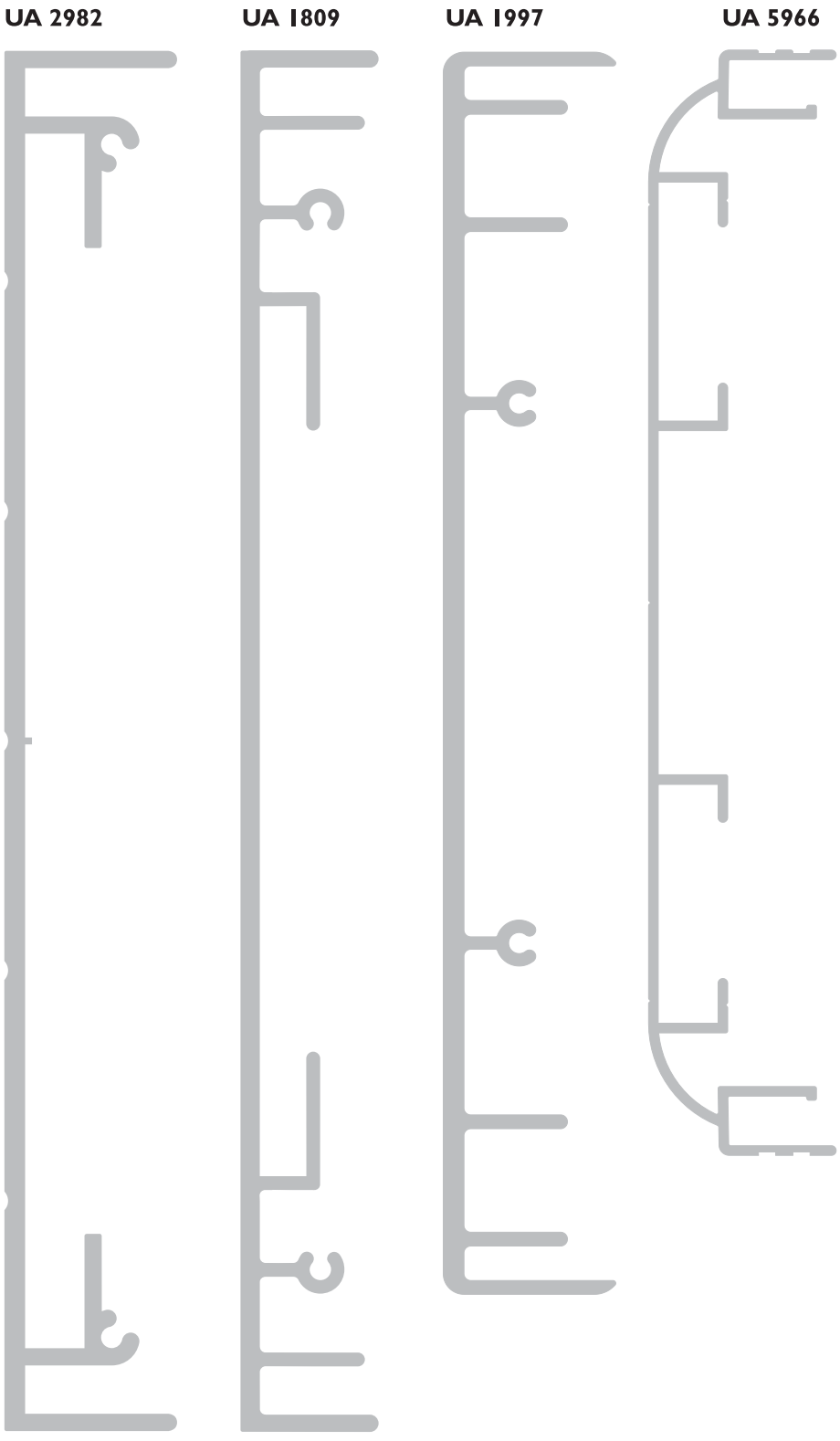
SIGN FRAME

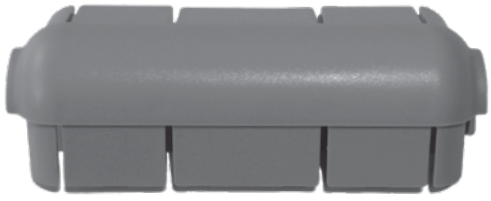
UA 1809
7mm SIGN FRAME
kg/m 2.383 P 701
OAD 200 x 20

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





SIGN FRAME CORNER
(POLYPROPYLENE)
Fits UA 5966
Code: ULL 5966

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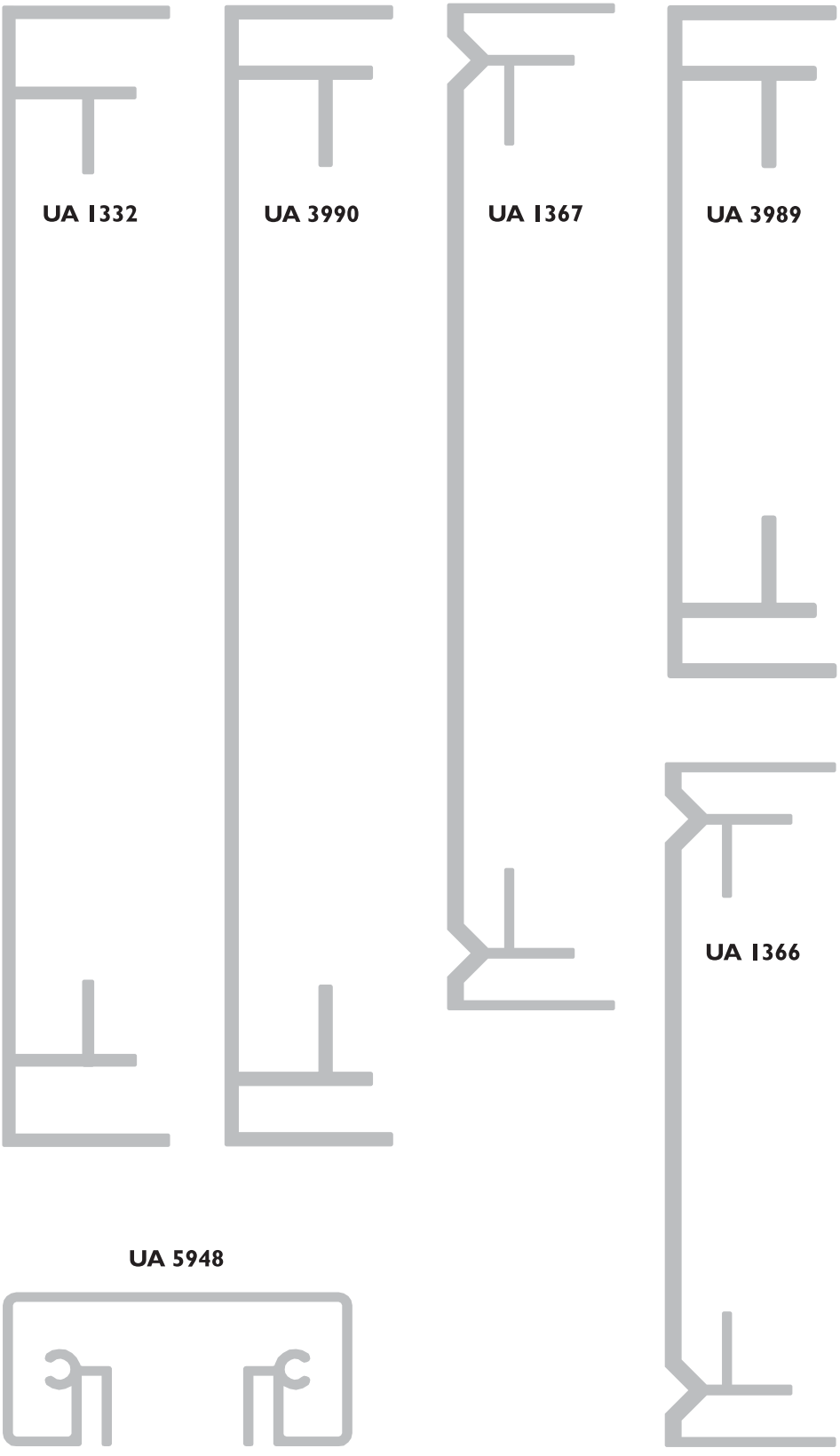

UA 1332
10mm SIGN FRAME
kg/m 1.479 P 559
OAD 170 x 25

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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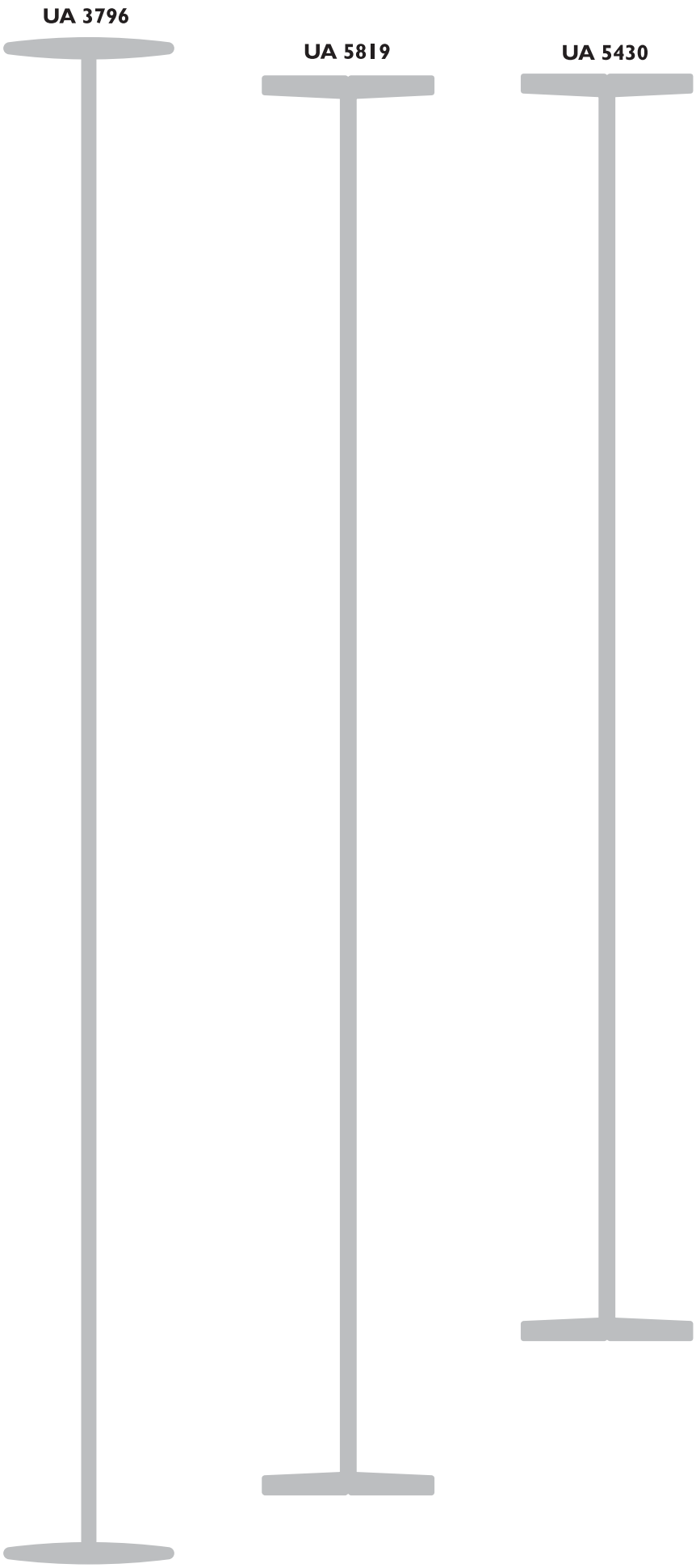
STREET SIGN

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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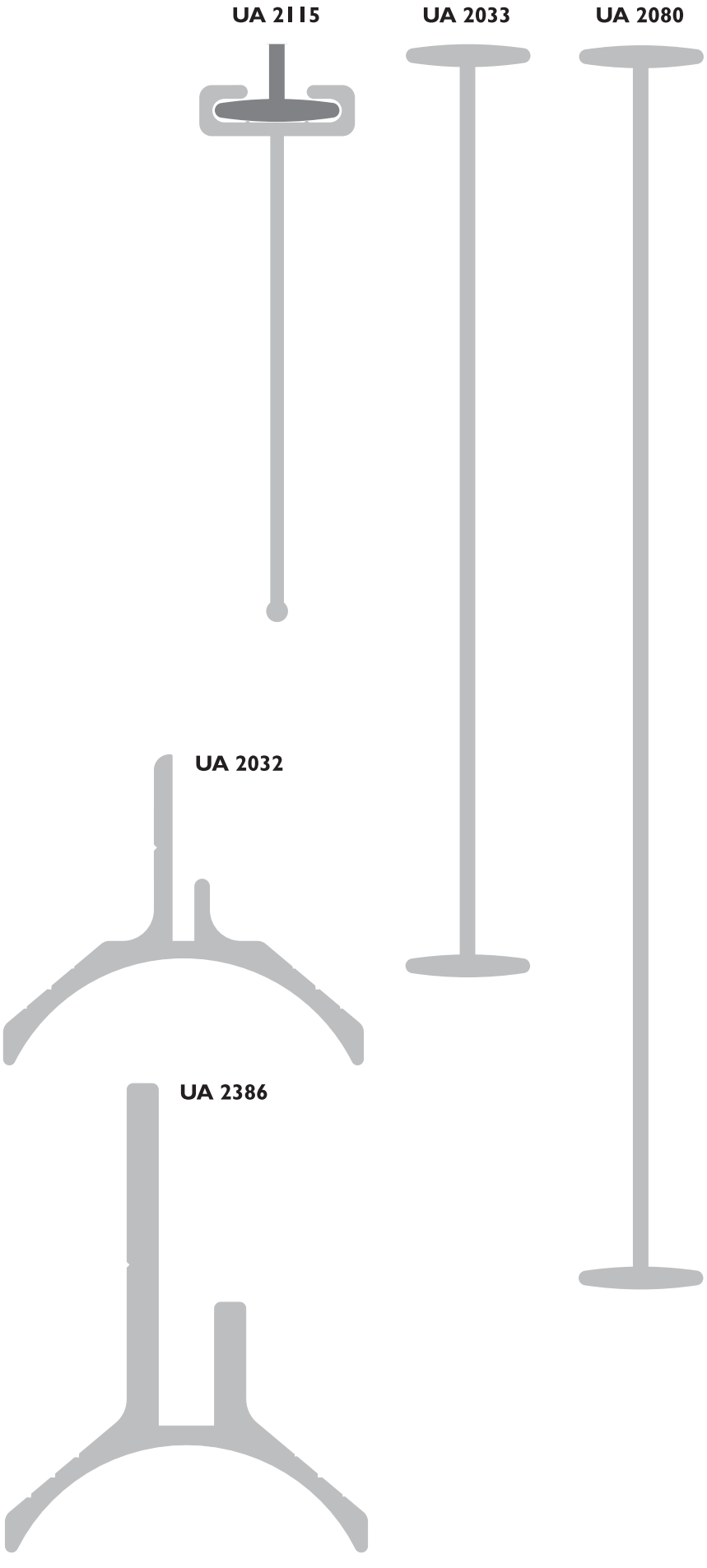

UA 2032
POST - BLADE HOLDER
kg/m 0.964 P 228
OAD 57.95 x 50

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

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SIGN FRAME

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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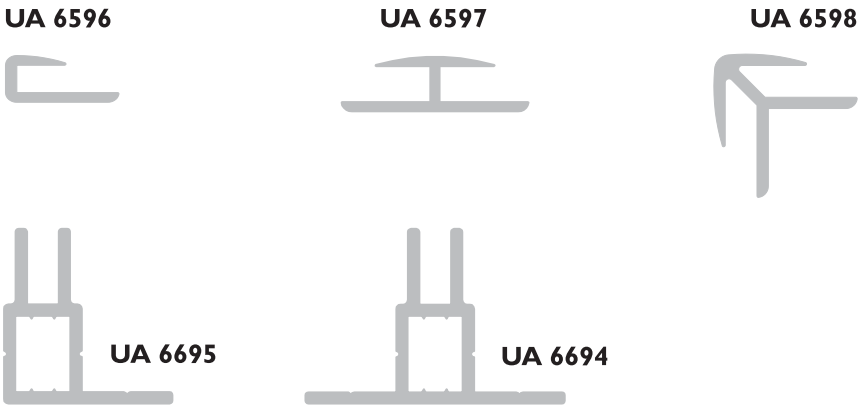

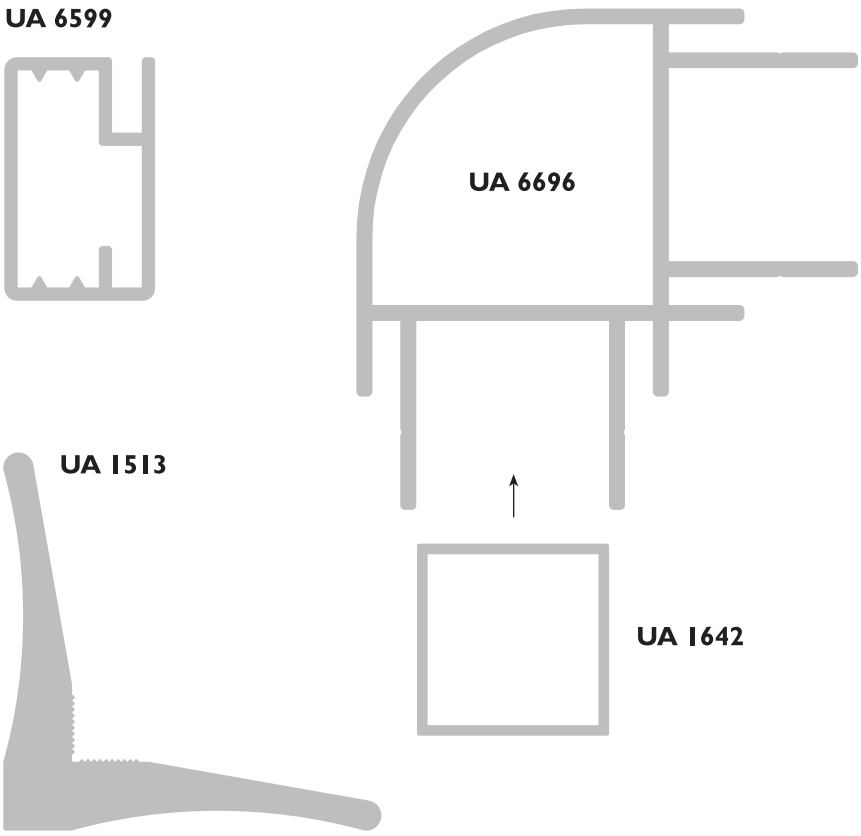

UC1999 CAST BOX CORNER
Fits UA 6696

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

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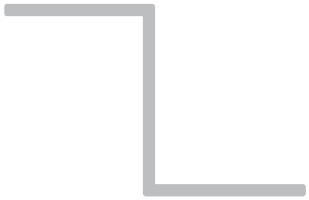
SIGN PANEL

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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BALUSTRADE

DIE No	DESCRIPTION
UA 1280	TOP RAIL STIFFENER
UA 1333	POCKET CAP
UA 1988	RHS RAILING
UA 2096	HANDRAIL CHANNEL
UA 2097	CHANNEL LID
UA 2098	HANDRAIL
UA 2099	GLAZING CHANNEL
UA 2102	GLAZING BAR
UA 2103	GLAZING BEAD
UA 2131	RAIL CHANNEL
UA 2132	RAIL INSERT
UA 2164	HANDRAIL
UA 2487	POST
UA 3347	HANDRAIL BASE
UA 3348	HIGHWAY HANDRAIL
UA 3349	RAILING
UA 3595	FLUSH CAP
UA 3596	HANDRAIL
UA 3597	BALUSTER
UA 3616	RAIL CHANNEL
UA 3617	GLAZING INSERT
UA 4007	POST
UA 4134	CHANNEL LID
AUS 4729	HANDRAIL
UA 4737	HANDRAIL
AUS 5115	HANDRAIL
AUS 5566	POST BASE
UA 6395	CHANNEL
AUS 6461	RAILING
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

FENCING

DIE No	DESCRIPTION
UA 1212	POST / RAIL
UA 1225	RAILING TUBE
UA 1855	FENCE SLAT
UA 2131	RAIL CHANNEL
UA 2132	RAIL INSERT
UA 2820	FENCE RAIL LID
UA 2821	RAILING
UA 2822	FENCE RAIL
UA 3178	POST / RAIL
UA 3616	RAIL CHANNEL
UA 5489	RHS RAILING
UA 5949	18mm CAPPING
UA 6393	FENCE SLAT
UA 6394	FENCE SLAT
UA 6397	10mm SLAT INSERT
AUS 6506	FENCE SLAT 1.2mm
AUS 6507	FENCE SLAT 1.4mm
UA 6856	FENCE PANEL
UA 6857	TONGUE & GROOVE PLANK
UA 6859	SLIDING GATE TRACK
UA 7092	RAIL CHANNEL
UA 7613	FENCE PANEL
UA 7654	FENCE RAIL CHANNEL
UA 7655	FENCE RAIL LID
UA 7656	FENCE PAILING
UA 7657	FENCE PAILING
UA 7694	FENCE PANEL
AUS 10615	SLAT CHANNEL
AUS 10616	SLAT INFILL Punched

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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

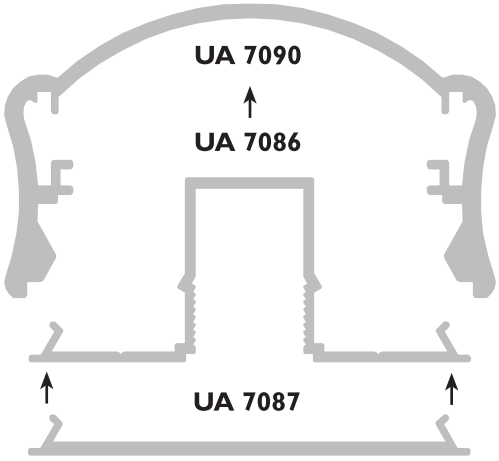
UA 7086
GLAZING INSERT
kg/m 0.441 P 236
OAD 58.5 x 24.5

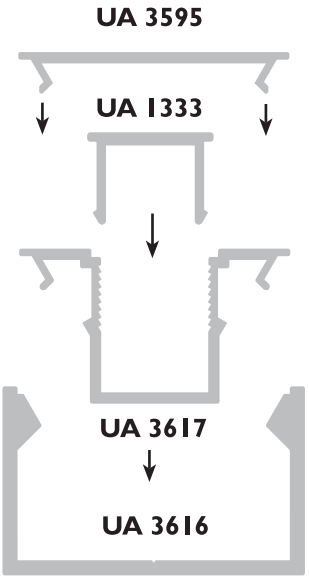
UA 7087
FLUSH CAP
kg/m 0.299 P 136
OAD 58.5 x 5.47

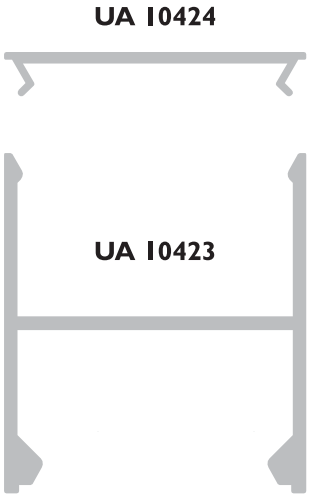
UA 7088
GLAZING BAR
kg/m 0.415 P 211
OAD 40 x 25

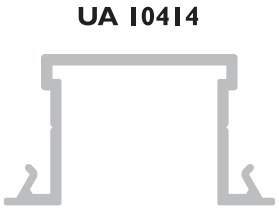
UA 7089
GLAZING BEAD
kg/m 0.182 P 113
OAD 18.7 x 12.9

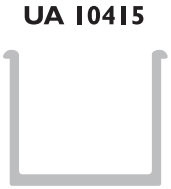
UA 7090
HANDRAIL
kg/m 0.964 P 310
OAD 65 x 39
Cast End Cap UC1501

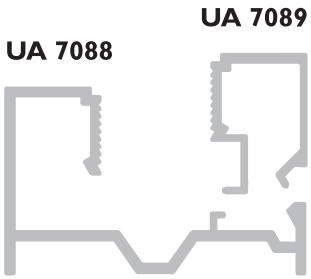












UA 7091
FIXING BLOCK
kg/m 0.732 P 108
OAD 35.6 x 12

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

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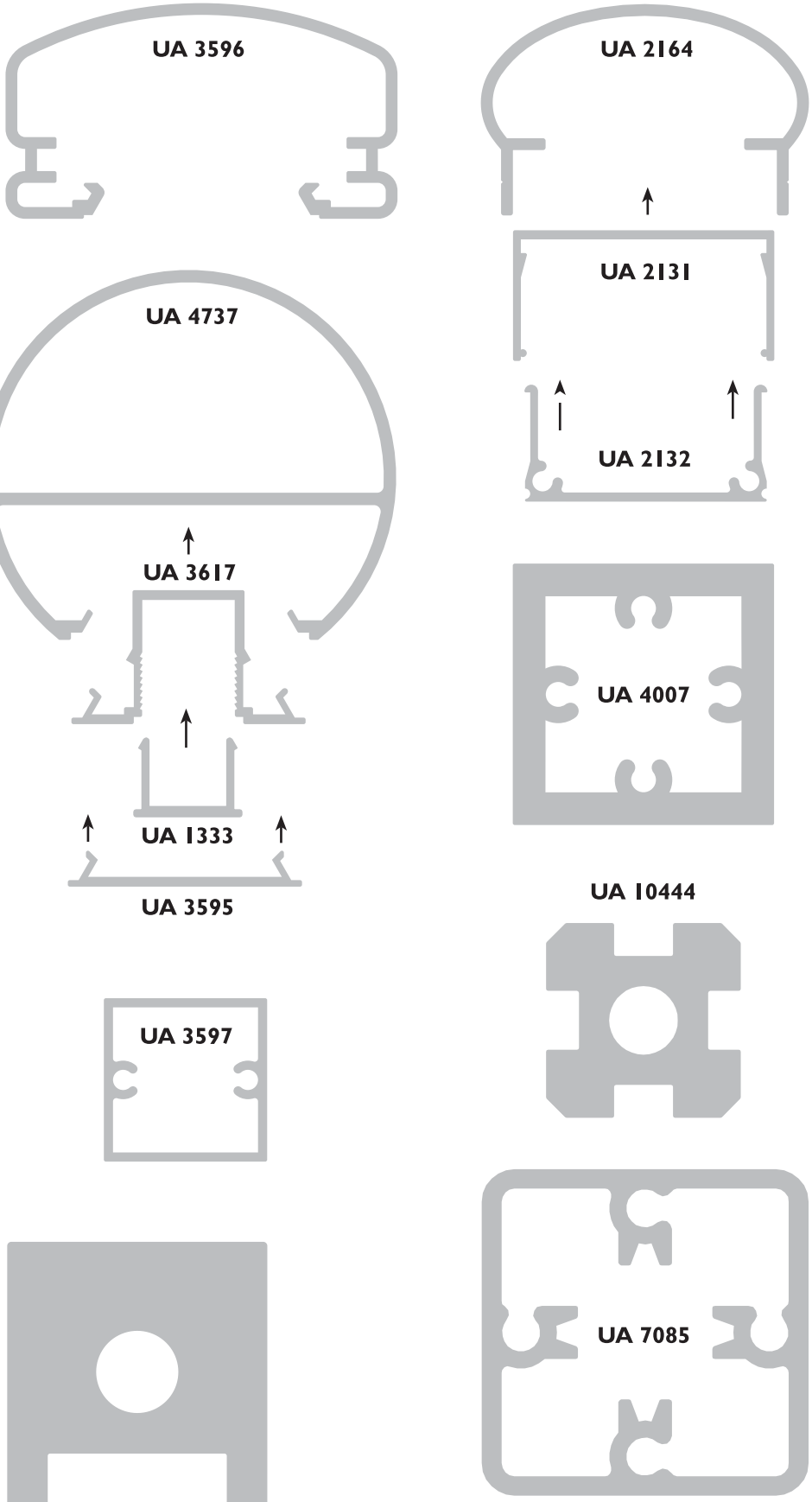

UA 1333
POCKET CAP
kg/m 0.121 P 78
OAD 16.5 x 12

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 UC1995

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 UC1994

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

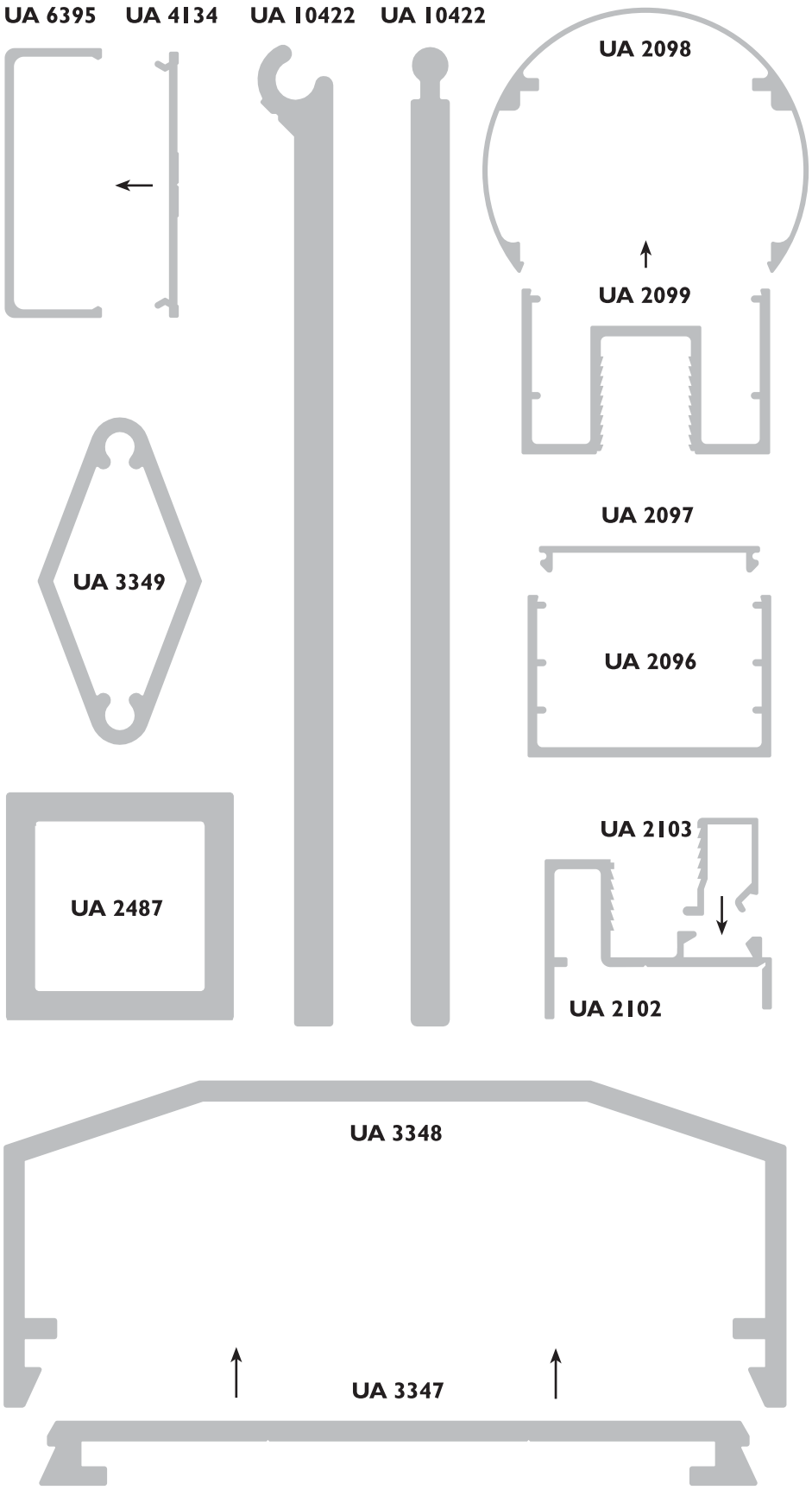
UA 3347
HANDRAIL BASE
kg/m 1.144 P 275
OAD 113.22 x 10

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 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

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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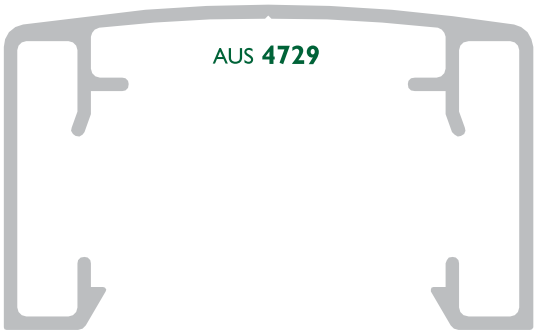

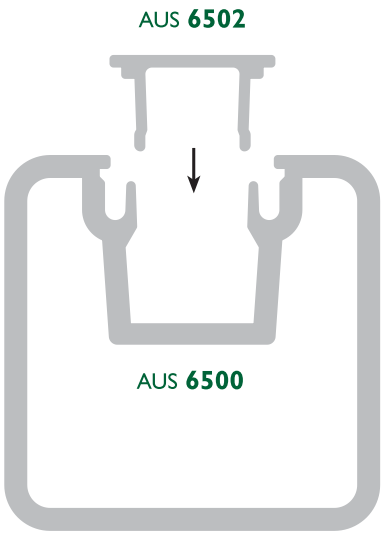

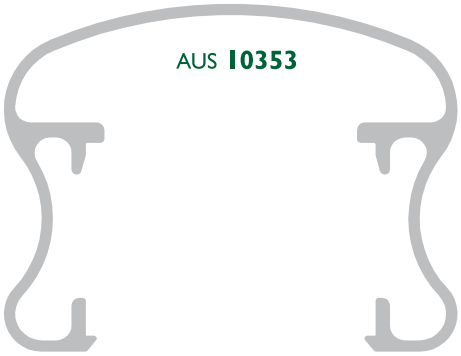

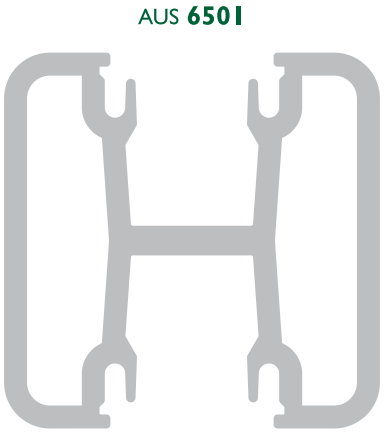

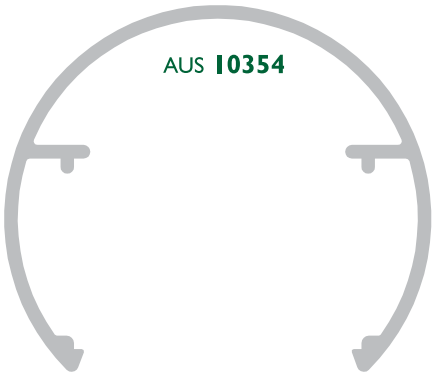

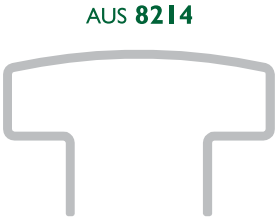

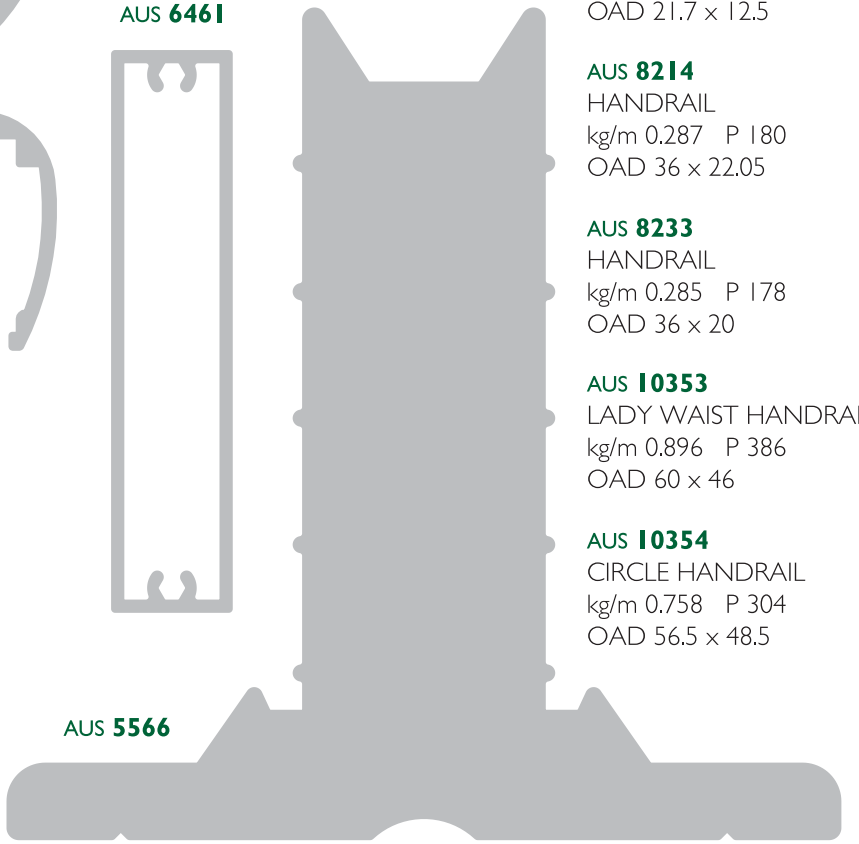

AUS 4729
HANDRAIL
kg/m 1.126 P 433
OAD 70 x 43

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 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 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 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

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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

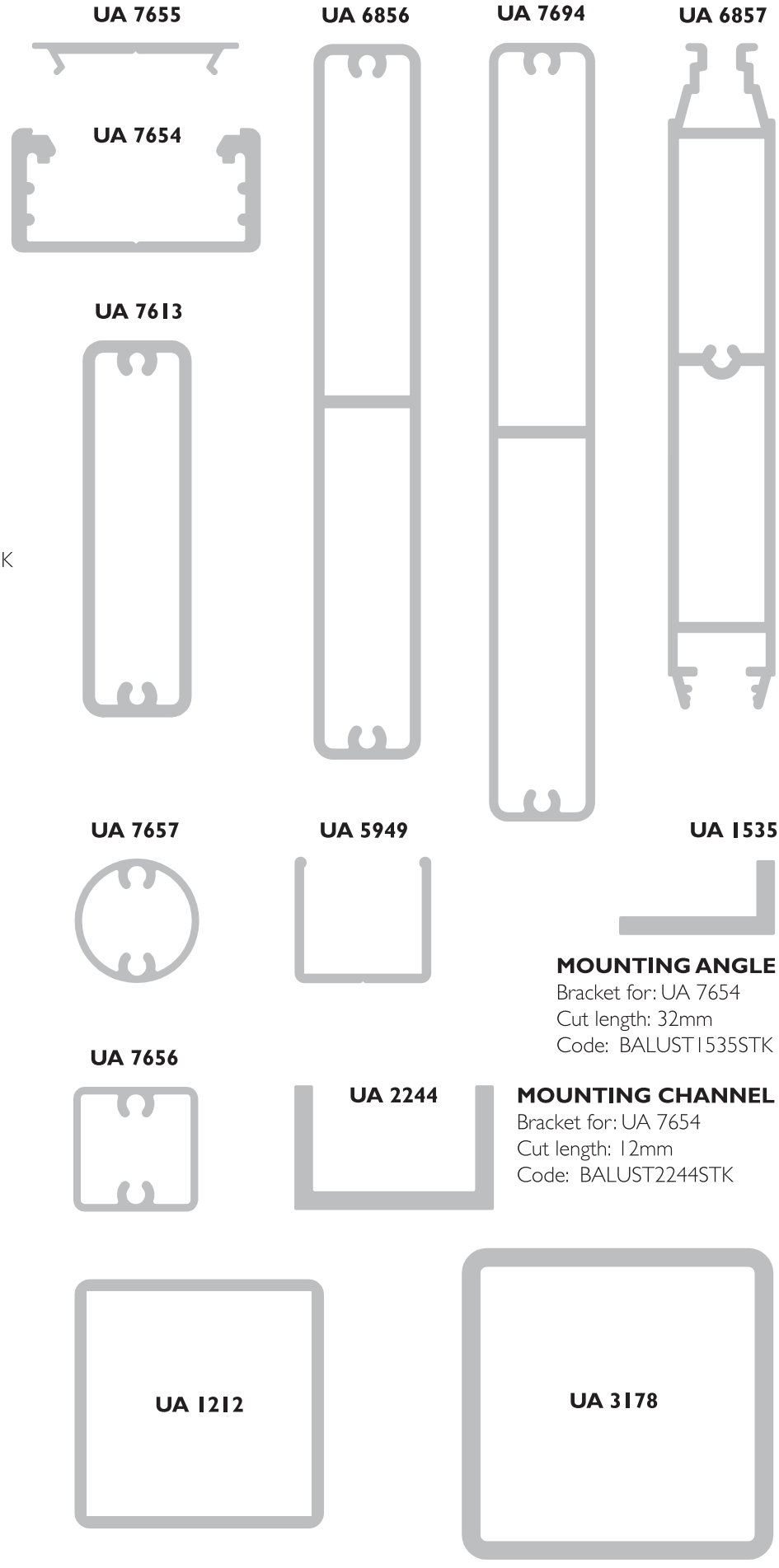
UA 7654
FENCE RAIL CHANNEL
kg/m 0.546 P 181
OAD 40 x 20

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



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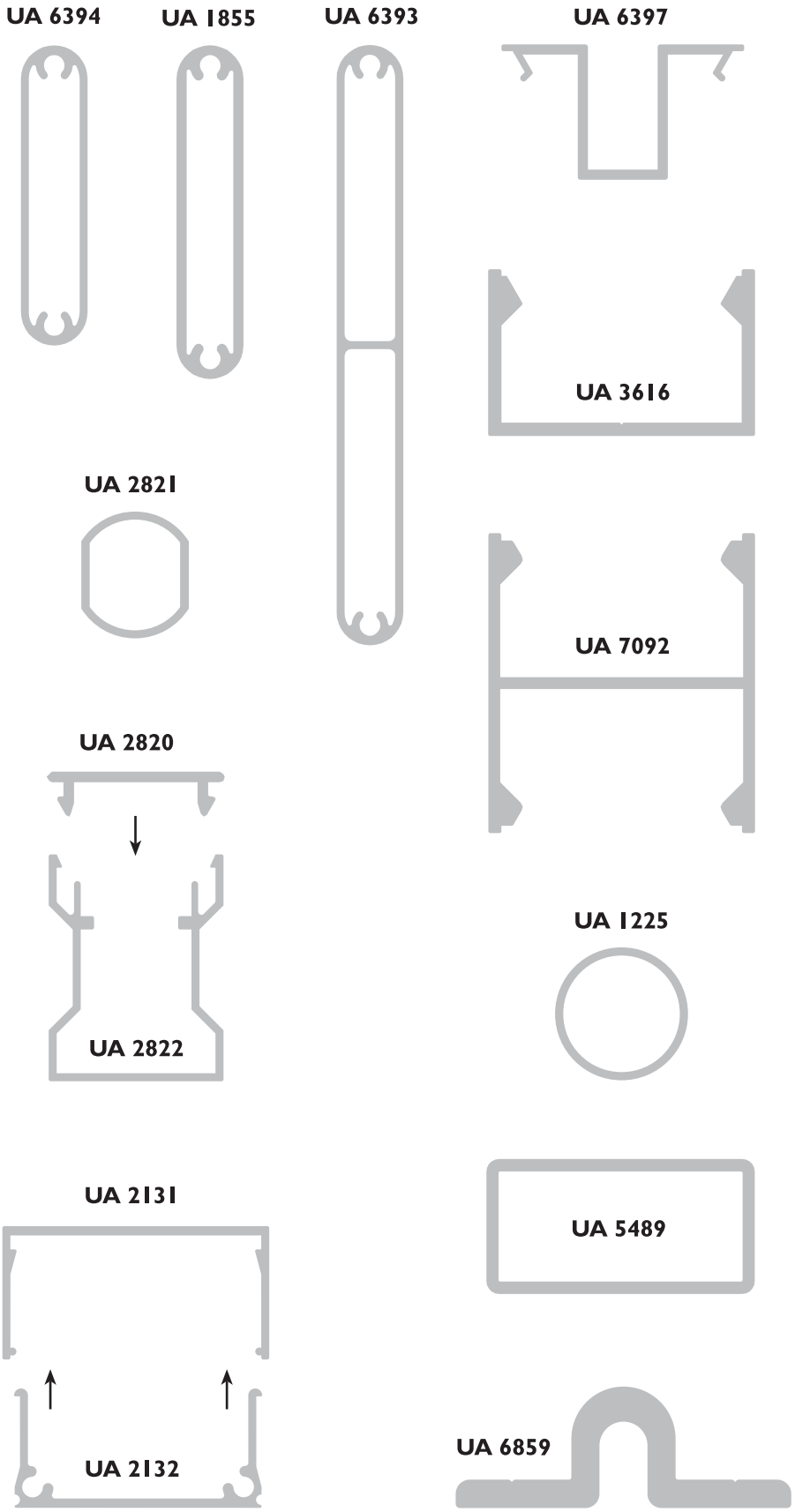

UA 1225
RAILING TUBE
kg/m 0.192 P 63
OAD 20 x 20

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 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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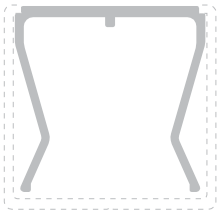
AUS 6506
FENCE SLAT 1.2mm
kg/m 0.496 P 157
OAD 65 x 16

AUS 6507
FENCE SLAT 1.4mm
kg/m 0.576 P 157
OAD 65 x 16

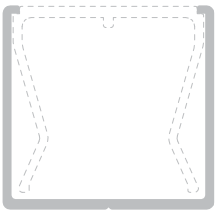
AUS 10615
SLAT CHANNEL
kg/m 0.276 P 164
OAD 28 x 27

AUS 10616
SLAT INFILL Punched
kg/m 0.250 P 151
OAD 24.6 x 23.8
Punched for AUS 6506, 6507

AUS **10616**

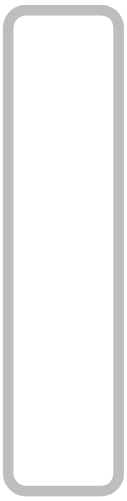


AUS **10615**



AUS **6506**

AUS **6507**



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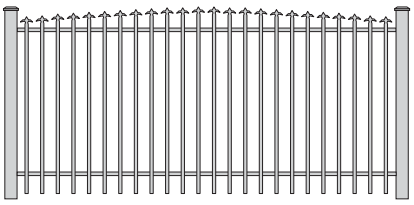
FENCE STYLES

F5



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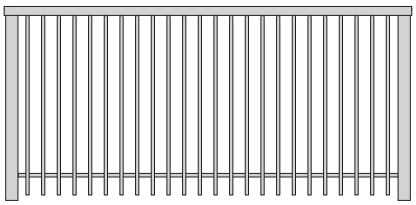

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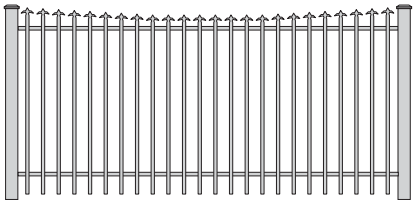

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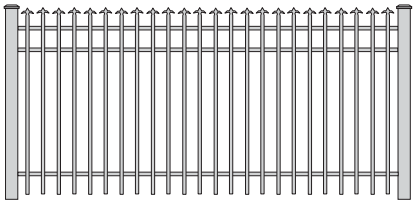

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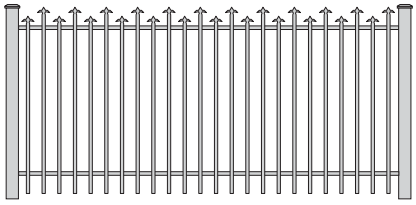

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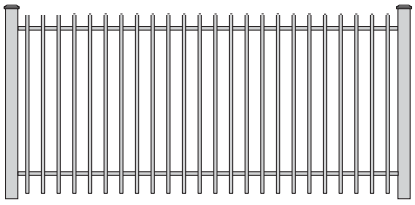

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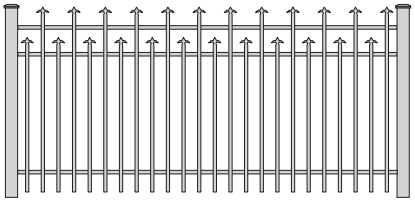

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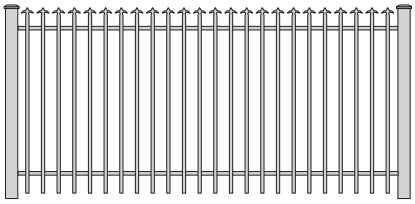
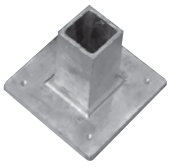
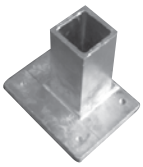




UC 1981
Fence Post Base Full



UC 1982
Fence Post Base 3/4

UC 1983
Fence Post Base 1/2

UC 1939 **UC1938**
Fence Flexi Bracket
(Female and Male)

UC 1963
1/2 Modular Bracket

UC 1942
Modular Bracket

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.

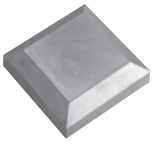
CAPS

A range of decorative cappings for fences and gates is available.

UC 1984
Football

UC 1941
Spear

UAF 05
Button Top



UC 1943, 1944, 1940
Fence Cap
50mm, 75mm, 100mm

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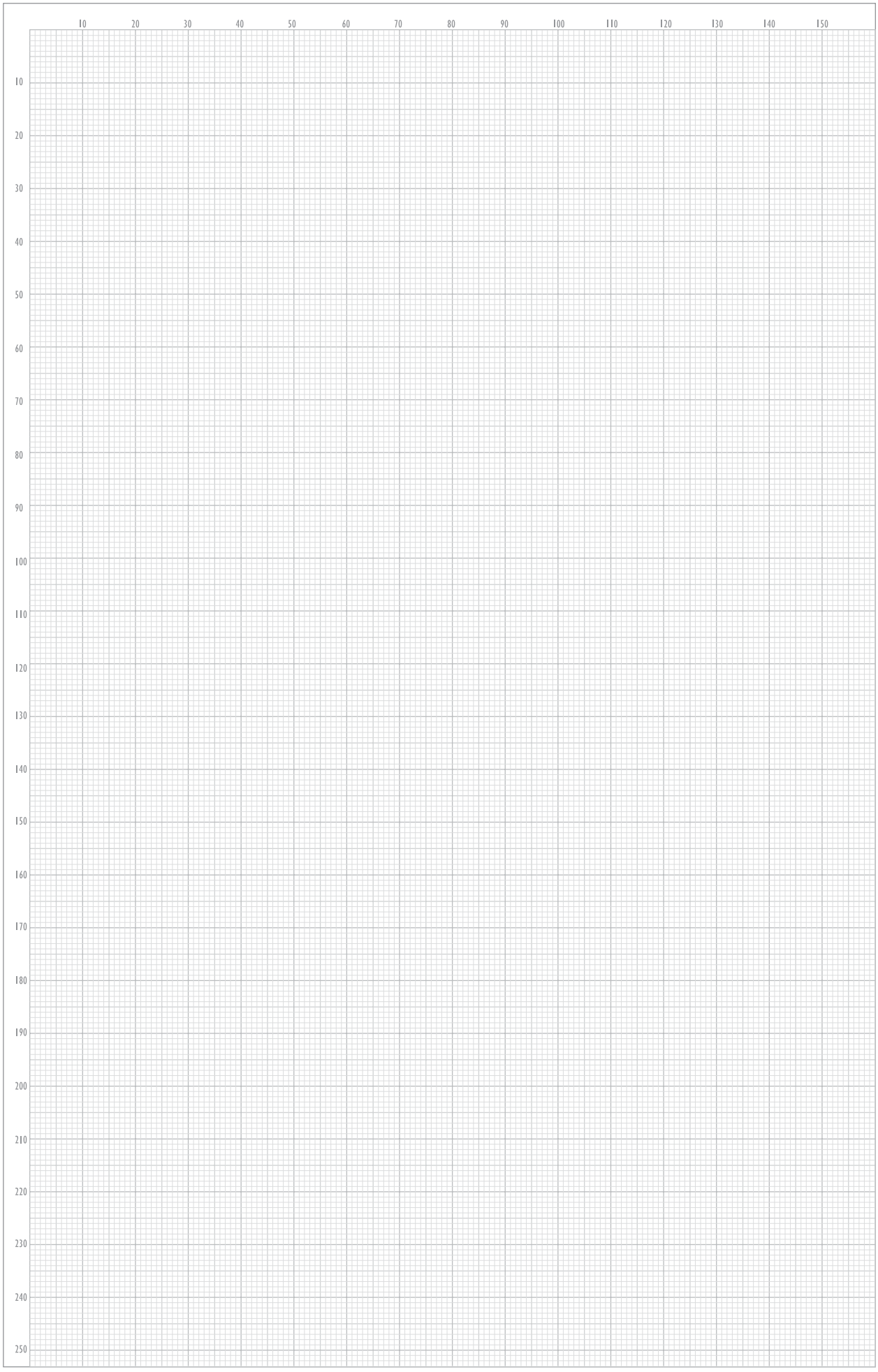
PLANNING GRID AND NOTES



DIE No	DESCRIPTION
UA 1371	FRAME 20mm
UA 1372	FLANGED FRAME 20mm
UA 1641	FLANGED FRAME 25mm
UA 1642	FRAME 25mm

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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

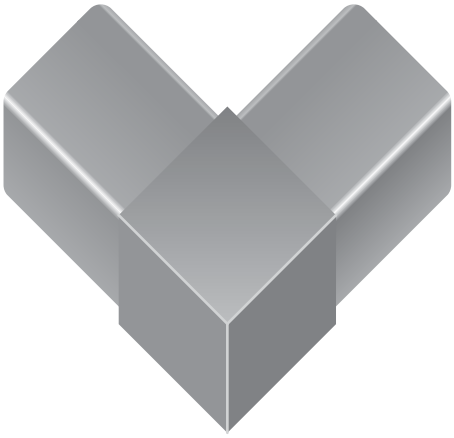
The Ullrich Modular Design System uses a tube-and-jointer construction for DIY shelving, storage, desking and display.
Using a rubber mallet, the system can be assembled in minutes, ready for shelving and panelling of your choice.

The finished units are sturdy yet lightweight, can be disassembled for storage or transit, and can be rearranged or extended for changing circumstances.

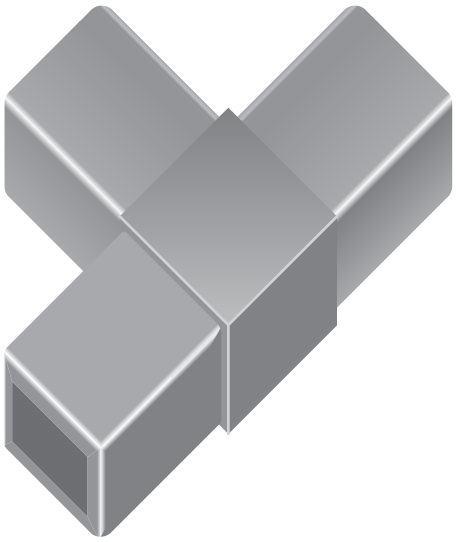
Your choice of 20mm or 25mm profile can be powder-coated in your choice of colour. Jointer components are standardly available in black or white.

See the Modular Design System brochure for more details.

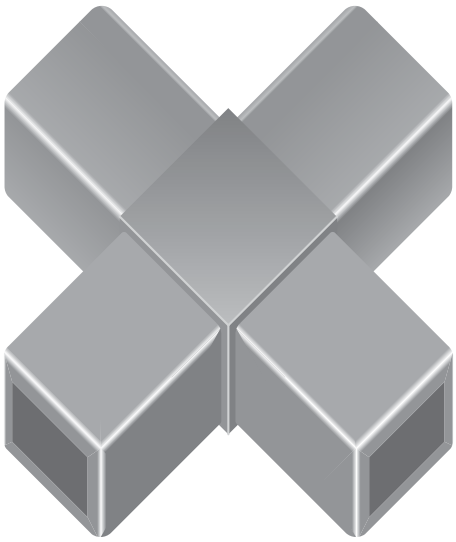
2 WAY CORNER JOINTER



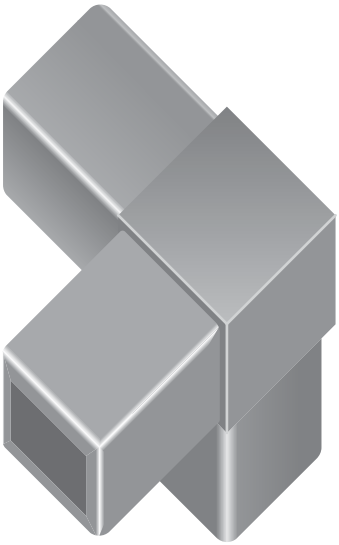
3 WAY T SHAPE JOINTER



4 WAY X SHAPE JOINTER



3 WAY Y SHAPE CORNER JOINTER



UA 1641

UA 1642

UA 1371

UA 1372

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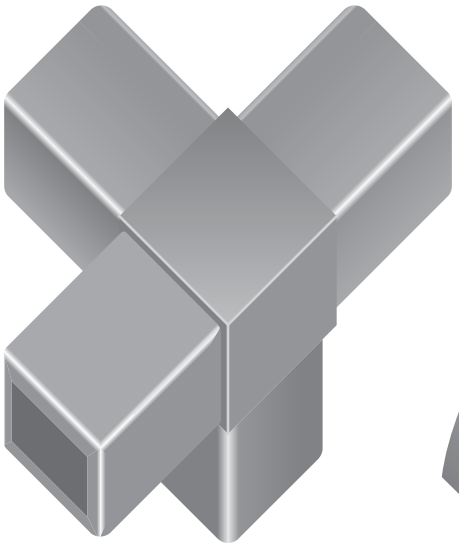
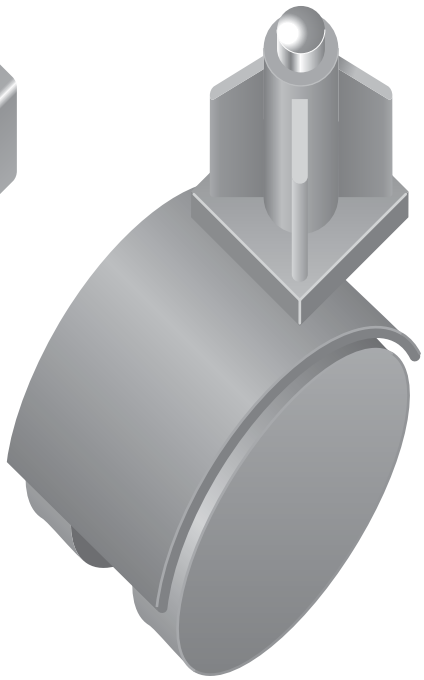
4 WAY Y SHAPE JOINTER

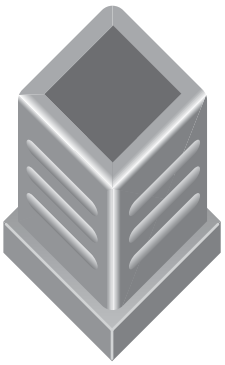


CASTOR



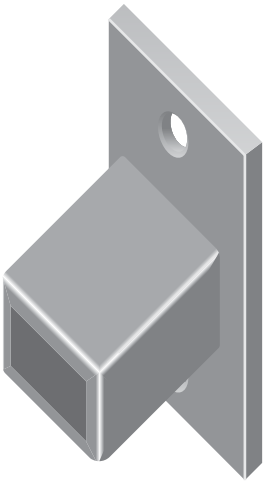
5 WAY JOINTER

END CAP



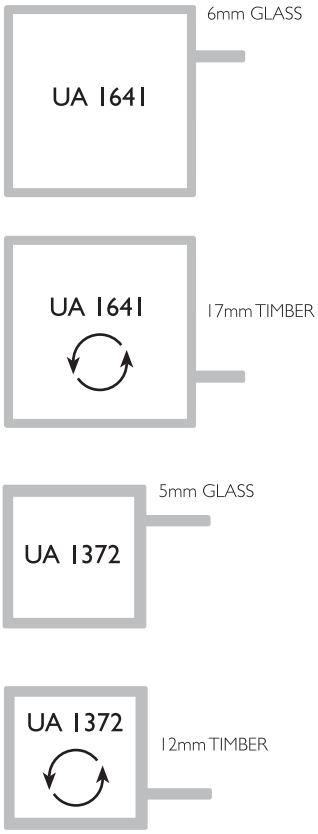
6 WAY JOINTER

MOUNTING BRACKET



Panelling Options

25mm flanged tube is designed to accept 17mm timber or 6mm glass, and 20mm flanged tube accepts 12mm timber or 5mm glass.



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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.

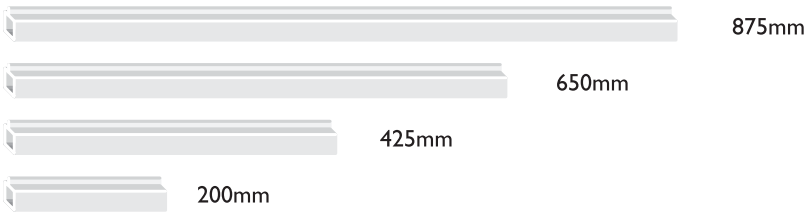
In assembly, these modules conform to accepted ergonomic work-height standards for desks and benches, and generally cater for typical dimensions of home appliances, computers, office files and books.

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.

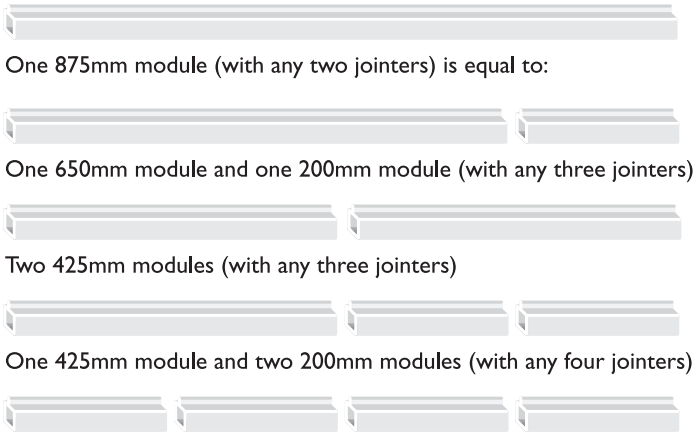
This facilitates customised construction, for example, various sized filing compartments above or below a wider desktop, or construction of shelves of various widths, depths and heights to suit different sizes of books, displays or audio-video appliances in a wall unit.

Vertical panelling and hinged or sliding doors can be incorporated into any Modular Design System construction.

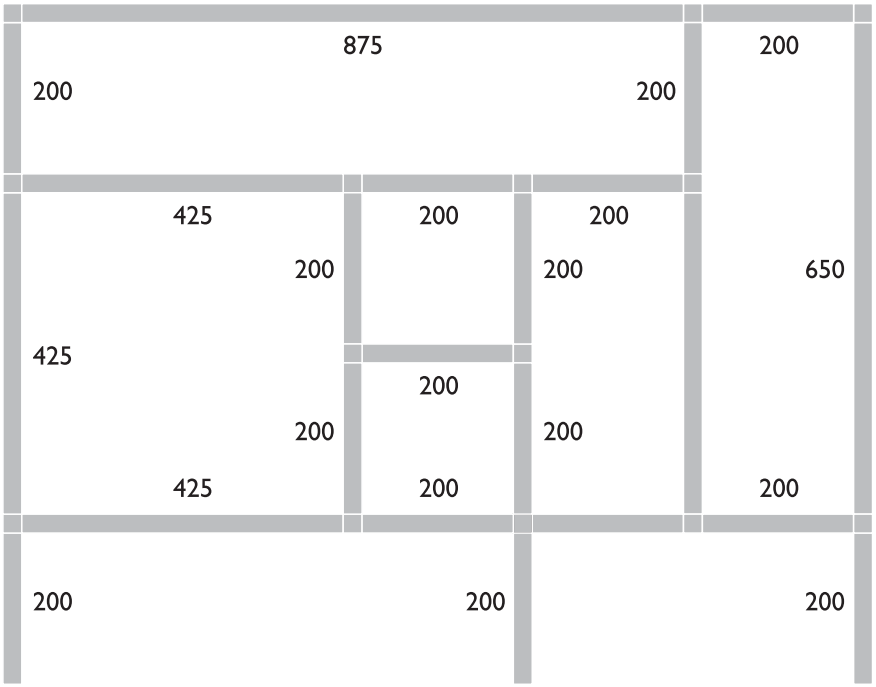
A multitude of designs from only four tube lengths (example)



How the tube modules work together for furniture that fits



Modular construction offers flush-fitting furniture with multiple storage options



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OAD = OVERALL DIMENSIONS
P = EXT PERIPHERY

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DIE No	DESCRIPTION
UA 2246	PALLET BEARER
UA 2247	PALLET DECK
UA 2435	PALLET BEARER
UA 2436	PALLET DECK

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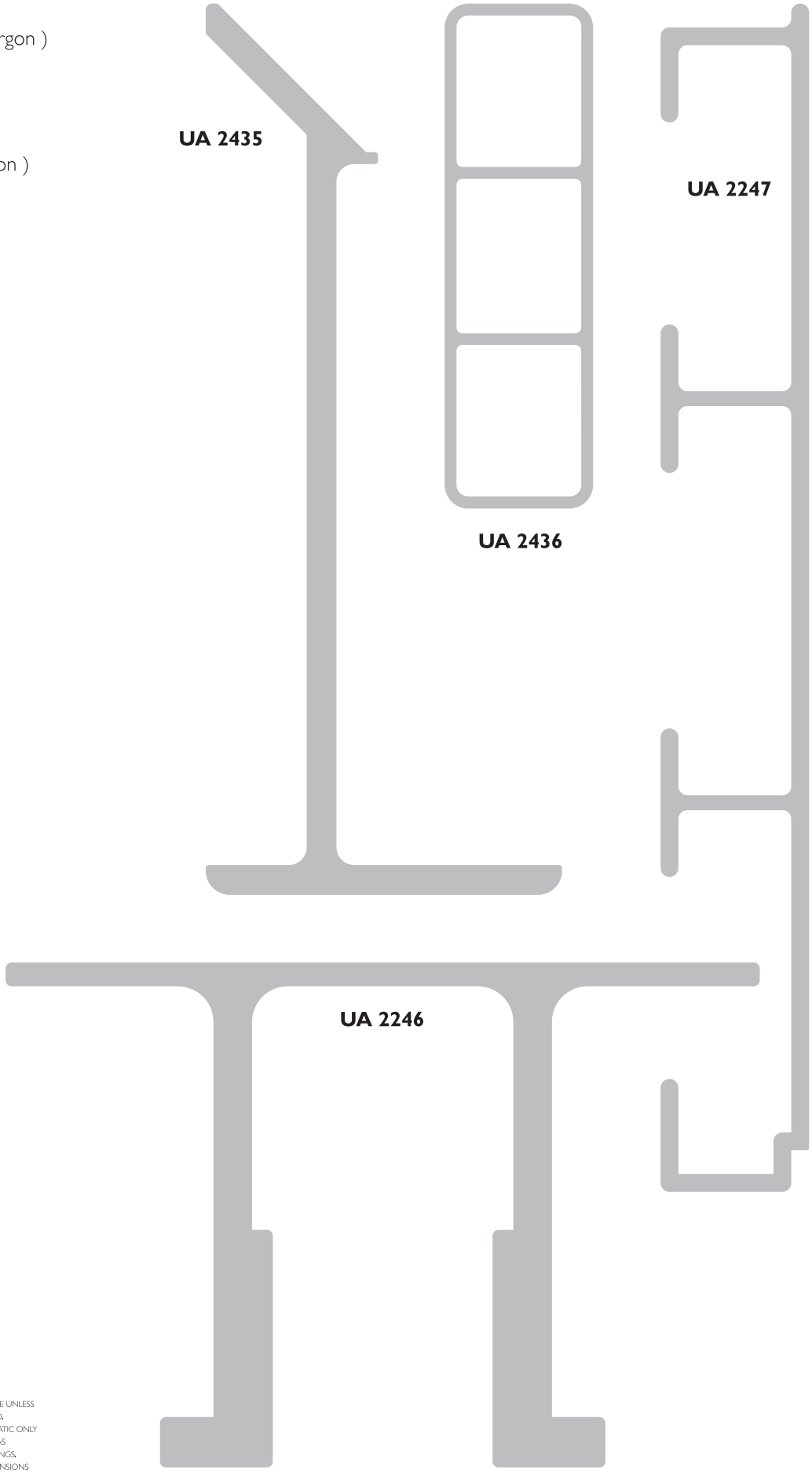
PALLET

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	
UA 1055	WEDGE PIN
UA 1056	TOP CHANNEL
UA 1057	BOTTOM CHANNEL
ACCORDION STORM SHUTTER	
UA 2916	STRIKE
UA 2917	LOCK
UA 2918	GUIDE
UA 2919	CHANNEL
UA 2920	WHEEL GUIDE
UA 2921	SHUTTER SLAT
UA 2922	SHUTTER END

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UA 1055
WEDGE PIN
kg/m 3.410 P 221
OAD 95 x 22

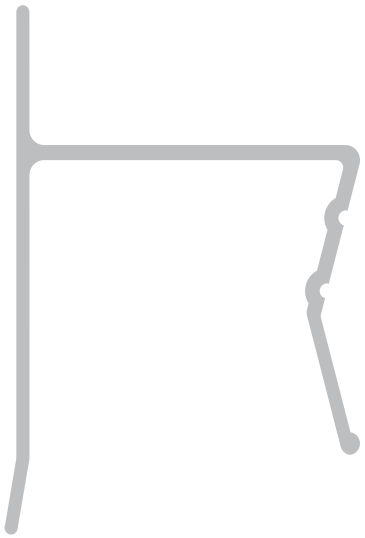
UA 1056
TOP CHANNEL
kg/m 0.811 P 315
OAD 70 x 49

UA 1057
BOTTOM CHANNEL
kg/m 0.626 P 244
OAD 81 x 32

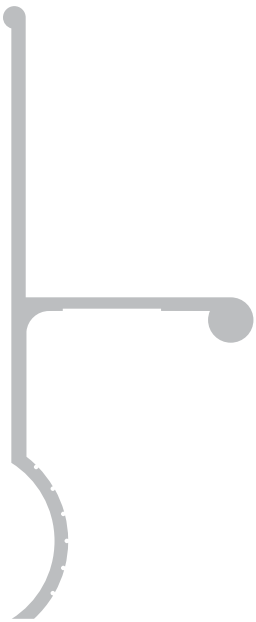
ASSEMBLY DETAILS
Refer: 24-3

UA 1055

UA 1056



UA 1057



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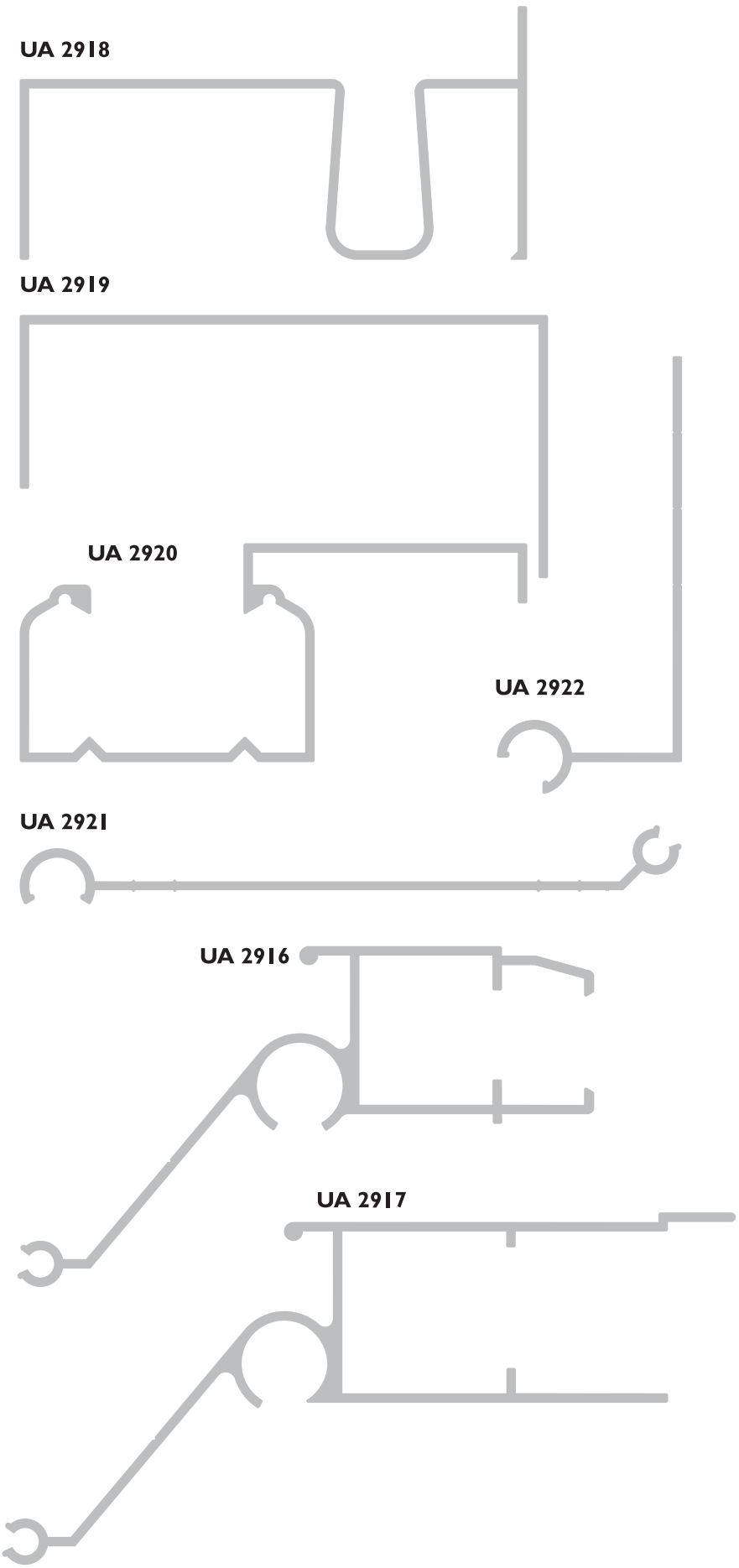

UA 2916
STRIKE
kg/m 0.899 P 423
OAD 89.72 x 53.65

UA 2917
LOCK
kg/m 1.040 P 489
OAD 114.33 x 55.4

UA 2918
GUIDE
kg/m 0.806 P 400
OAD 80 x 40

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
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

ASSEMBLY DETAILS
Refer: 24-3

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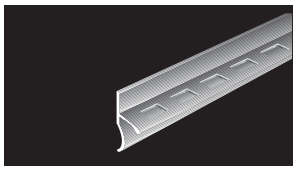
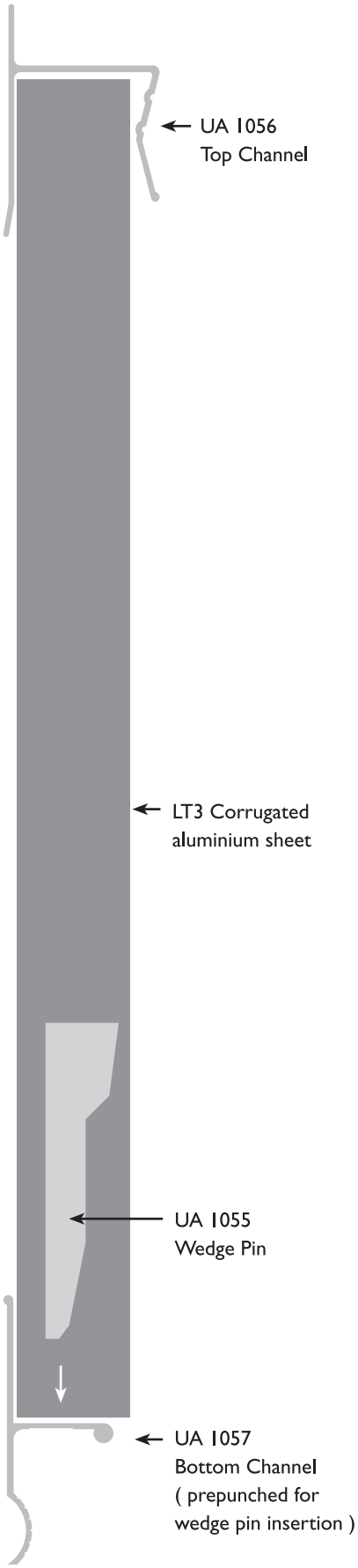
STORM SHUTTER ASSEMBLY

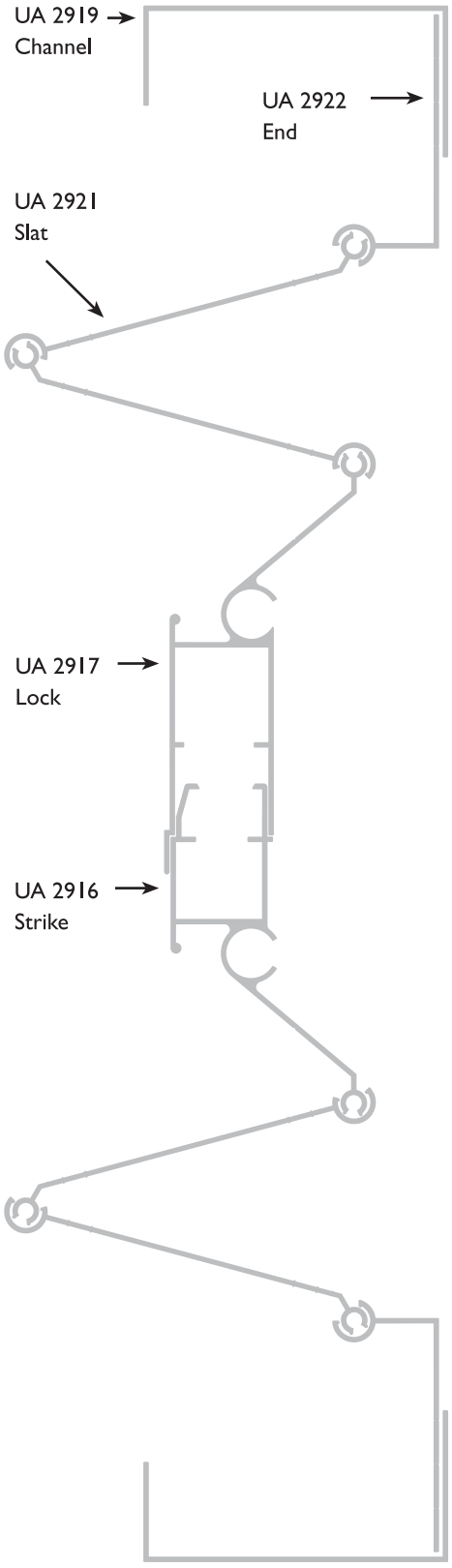


Above from top
Storm Shutter
UA 1057 prepunching detail
Accordion Storm Shutter

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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EXTRUSION TERMINOLOGY

Standard shape — Extrusions that are available to all customers.

Exclusive shape — Extrusions manufactured to client design and produced for their exclusive use. These are not published in this catalogue.

Standard — Alloys, tempers, dimensions and services always available and acceptable for production without further reference.

Non-standard — Alloys, tempers, dimensions and services which are outside normal availability and always the subject of special inquiry.

Section drawings — Profile outline drawings prepared for every extruded shape. Each one is identified by a die number (eg: UA 1234).

Visible face — In a finished construction, the visible surface of any extrusion.

External periphery — 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.

Total periphery — The total distance around the extruded shape, including internal void surfaces.

Factor — Result of dividing total perimeter (internal and external for hollow shapes) of the section in mm by weight in kg/m.

Circumscribing circle — Minimum circle inside which extruded shapes fit precisely.

Thickness ratio — Optimum desirable ratio of variation of metal thickness in any extruded shape.

Rod — Solid round section 10 mm or greater in diameter whose length is greater in relation to its diameter.

Bar — 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.

Solid shape — Extruded shape whose geometry does not form a void and which is long in relation to its cross-sectional dimensions.

Hollow shape — Single enclosed void with width-to-depth ratio not less than 5:1. Wall thickness uniform except for radiused corners.

Semi-hollow shape — 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^2 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 0.000023mm per mm length of extrusion per $^\circ$C. A length of aluminium extrusion 6m long will expand over 4mm when the temperature rises 30° C. When designing, especially building design, provison 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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COMPARATIVE CHARACTERISTICS AND APPLICATIONS

Alloy	Characteristics	Available Forms	Applications
1350	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
6060	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	Architectual extrusions such as glazing bars, window frames and general purpose extrusions
6106	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
6005A	Medium structural alloy. Good extrusion character-istics 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
6261	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
6082	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
2011	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

F	Extrusions as fabricated
O	Extrusions annealed
T1	Cooled from elevated temperature then naturally aged
T4	Solution heat treated then naturally aged
T5	Cooled from elevated temperature then artificially aged
T6	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[1])

Cross- sectional Metal dimension [2] 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[1] (mm)		Tensile Strength (MPa)		
			Ultimate minimum	Yield minimum	Elongation [2 3] % min in 50mm or 5.65√A
	Over	Up to			
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)

USEFUL FORMULAE

Nominal mass (kg/m²) of Extruded Aluminium:

Calculate cross-section area (mm²) 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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THE STORY OF ALUMINIUM

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 a 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 ***aluminum*** (pron: aloominum). 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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HANDLING AND STORAGE

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.

ULLRICH ALUMINIUM

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OAD = OVERALL DIMENSIONS
P = EXT PERIPHERY

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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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CLEANING ALUMINIUM SURFACES

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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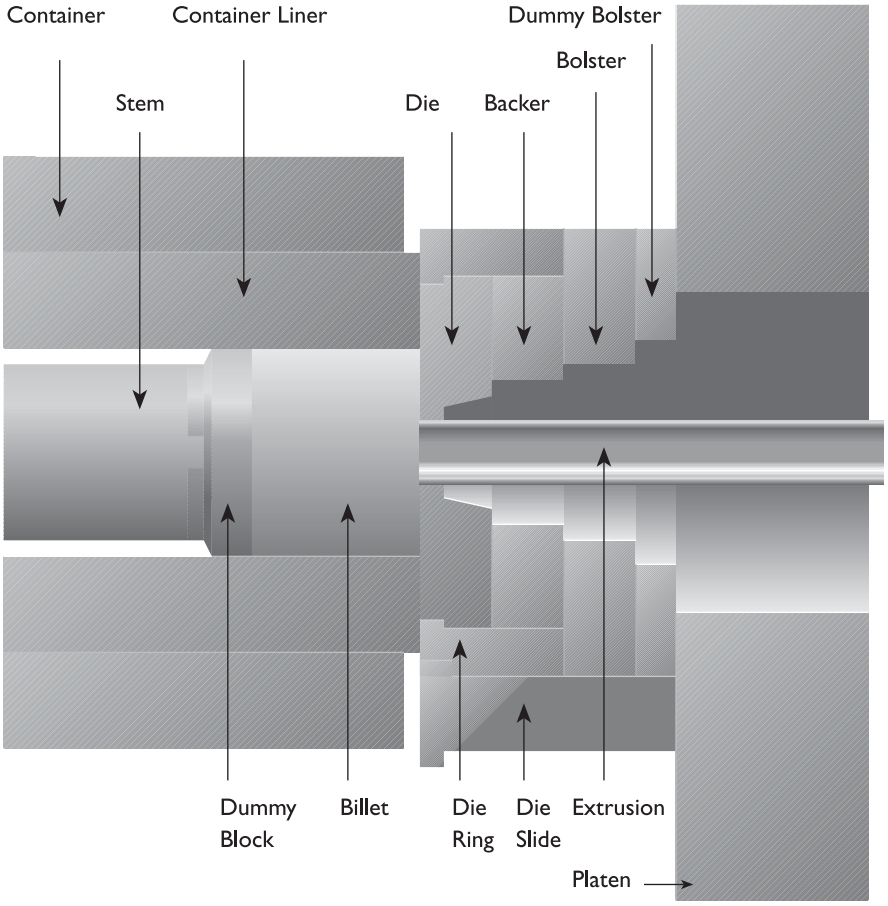
Profiles in one process



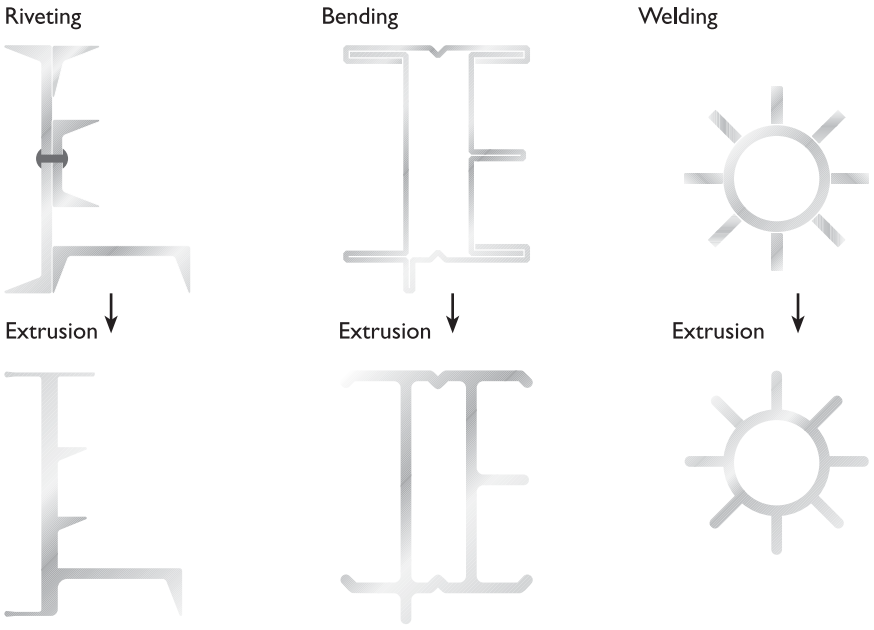
In the extrusion of aluminium, long billets are cut to manageable lengths, heated to 400° to 500°C then fed into a container heater of the extruder. The billet is then pushed through the die by hydraulic force to form the extruded shape.

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 19/3	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
8 1/16	204.788
8 1/8	206.375
8 3/16	207.962
8 1/4	209.550
8 5/16	211.138
8 3/8	212.725
8 7/16	214.312
8 1/2	215.900
8 9/16	217.488
8 5/8	219.075
8 11/16	220.662
8 3/4	222.250
8 13/16	223.838
8 7/8	225.425
8 15/16	227.012
9 inches	228.600
9 1/16	230.188
9 1/8	231.775
9 3/16	233.362
9 1/4	234.950
9 5/16	236.538
9 3/8	238.125
9 7/16	239.712
9 1/2	241.300
9 9/16	242.888
9 5/8	244.475
9 11/16	246.062
9 3/4	247.650
9 13/16	249.238
9 7/8	250.825
9 15/16	252.412
10 inches	254.000
10 1/16	255.588
10 1/8	257.175
10 3/16	258.762
10 1/4	260.350
10 5/16	261.938
10 3/8	263.525
10 7/16	265.112
10 1/2	266.700
10 9/16	268.288
10 5/8	269.875
10 11/16	271.462
10 3/4	273.050
10 13/16	274.638
10 7/8	276.225
10 15/16	277.812
11 inches	279.400
11 1/16	280.988
11 1/8	282.575
11 3/16	284.162
11 1/4	285.750
11 5/16	287.338
11 3/8	288.925
11 7/16	290.512
11 1/2	292.100
11 9/16	293.688
11 5/8	295.275
11 11/16	296.862
11 3/4	298.450
11 13/16	300.038
11 7/8	301.625
11 15/16	303.212
12 inches	304.800

ft	ins	mm
1	1	330.200
1	2	355.600
1	3	381.000
1	4	406.400
1	5	431.800
1	6	457.200
1	7	482.600
1	8	508.000
1	9	533.400
1	10	558.800
1	11	584.200
2	0	609.600
2	1	635.000
2	2	660.400
2	3	685.800
2	4	711.200
2	5	736.600
2	6	762.000
2	7	787.400
2	8	812.800
2	9	838.200
2	10	863.600
2	11	889.000
3	0	914.400
3	1	939.800
3	2	965.200
3	3	990.600
3	4	1016.00
3	5	1041.40
3	6	1066.80
3	7	1092.20
3	8	1117.60
3	9	1143.00
3	10	1168.40
3	11	1193.80
4	0	1219.20
4	1	1244.60
4	2	1270.00
4	3	1295.40
4	4	1320.80
4	5	1346.20
4	6	1371.60
4	7	1397.00
4	8	1422.40
4	9	1447.80
4	10	1473.20
4	11	1498.60
5	0	1524.00
5	1	1549.40
5	2	1574.80
5	3	1600.20
5	4	1625.60
5	5	1651.00
5	6	1676.40
5	7	1701.80
5	8	1727.20
5	9	1752.60
5	10	1778.00
5	11	1803.40
6	0	1828.80
6	1	1854.20
6	2	1879.60
6	3	1905.00
6	4	1930.40

ft	ins	mm
6	5	1955.80
6	6	1981.20
6	7	2006.60
6	8	2032.00
6	9	2057.40
6	10	2082.80
6	11	2108.20
7	0	2133.60
7	1	2159.00
7	2	2184.40
7	3	2209.80
7	4	2235.20
7	5	2260.60
7	6	2286.00
7	7	2311.40
7	8	2336.80
7	9	2362.20
7	10	2387.60
7	11	2413.00
8	0	2438.40
8	1	2463.80
8	2	2489.20
8	3	2514.60
8	4	2540.00
8	5	2565.40
8	6	2590.80
8	7	2616.20
8	8	2641.60
8	9	2667.00
8	10	2692.40
8	11	2717.80
9	0	2743.20
9	1	2768.60
9	2	2794.00
9	3	2819.40
9	4	2844.80
9	5	2870.20
9	6	2895.60
9	7	2921.00
9	8	2946.40
9	9	2971.80
9	10	2997.20
9	11	3022.60
10	0	3048.00
11	0	3352.80
12	0	3657.60
13	0	3962.40
14	0	4267.20
15	0	4572.00
16	0	4876.80
17	0	5181.60
18	0	5486.40
19	0	5791.20
20	0	6096.00
21	0	6400.80
22	0	6705.60
23	0	7010.40
24	0	7315.20
25	0	7620.00
26	0	7924.80
27	0	8229.60
28	0	8534.40
29	0	8839.20
30	0	9144.00

feet	mm
31	9448.80
32	9753.60
33	10,058.4
34	10,363.2
35	10,668.0
36	10,972.8
37	11,277.6
38	11,582.4
39	11,887.2
40	12,192.0
41	12,496.8
42	12,801.6
43	13,106.4
44	13,411.2
45	13,716.0
46	14,020.8
47	14,325.6
48	14,630.4
49	14,935.2
50	15,420.0
51	15,544.8
52	15,849.6
53	16,154.4
54	16,459.2
55	16,764.0
56	17,068.8
57	17,373.6
58	17,678.4
59	17,983.2
60	18,288.0
61	18,592.8
62	18,897.6
63	19,202.4
64	19,507.2
65	19,812.0
66	20,116.8
67	20,421.6
68	20,726.4
69	21,031.2
70	21,336.0
71	21,640.8
72	21,945.6
73	22,250.4
74	22,555.2
75	22,860.0
76	23,164.8
77	23,469.6
78	23,774.4
79	24,079.2
80	24,384.0
81	24,688.8
82	24,993.6
83	25,298.4
84	25,603.2
85	25,908.0
86	26,212.8
87	26,517.6
88	26,822.4
89	27,127.2
90	27,432.0
91	27,736.8
92	28,041.6
93	28,346.4
94	28,651.2

USEFUL FORMULAE

Nominal mass (kg/m²) of aluminium sheet and plate:

Thickness mm	Nominal mass kg/m²
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/m²) of extruded aluminium:

Calculate cross-section area (mm²) 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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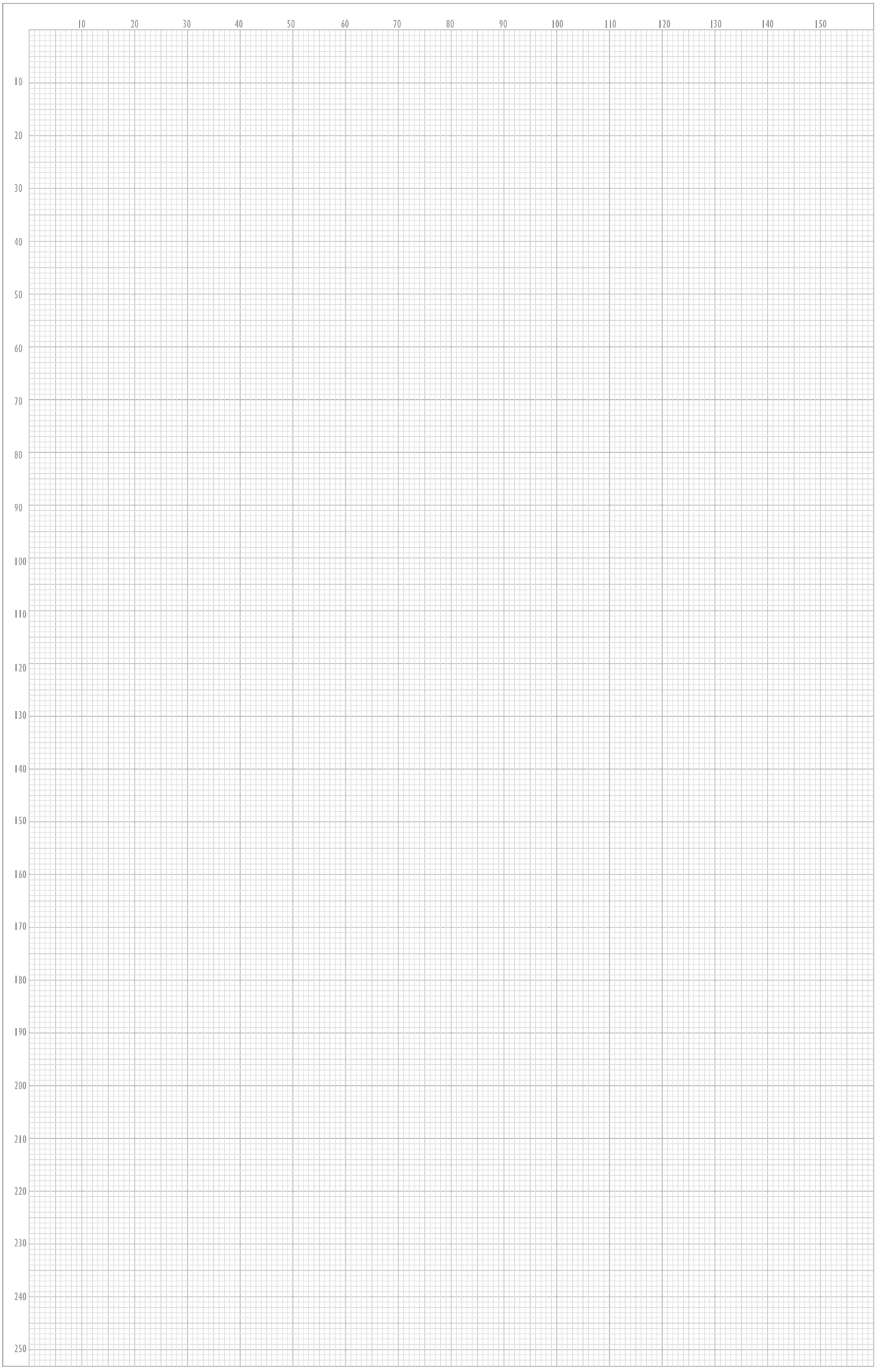
NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

PLANNING GRID AND NOTES



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Map key:
- ○ SALES & DISTRIBUTION
- \+ MANUFACTURING
- * EXTRUSION PLANT

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