

ULLRICH ALUMINIUM

DESIGNER PARTITIONING SYSTEMS

DESIGNER SERIES



QUALITY • SERVICE • INTEGRITY



**MODERN
STYLISH
SPACE SAVING
TESTED SYSTEM
COST EFFECTIVE
EASY INSTALLATION**

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DESIGNER INTERNAL PARTITIONING SYSTEM

INTRODUCTION

The Designer System provides a sophisticated and contemporary style.

With its modern design and stylish impression, it will assist architects and designers to achieve their creative vision and bring their concepts to life.

Many factors were taken into consideration during the development of our Designer range of profiles. We created not only innovative but also practical options, to assist installers with a straightforward, cost effective installation.

The Designer System is proven to ensure compliance with the requirements of the NZ Building Code and the Glazing Association of New Zealand regulations.

Designer will provide contractors and builders with a versatile and durable partitioning system, which offers a variety of applications and is the ideal choice for both office and commercial developments.

Designer Profiles, Standard Length: 5.6 metres

QUALITY PRODUCTS

Ullrich Aluminium is a major manufacturing supplier of Aluminium products.

We offer a wide range of products to suit a variety of applications for residential, commercial, and industrial projects.

Our strict use of Premium Grade Aluminium Alloys in our production process ensures a high standard of performance, surface quality and finish for our customers.



CREATIVITY

Our Designer Internal Partitioning System and seismic tested Headstarter Restraint Bracket confirms our commitment to provide suitably designed, quality products.

A key component when developing our Designer System was our consultation with various tradesmen and experienced on-site installers and glaziers within the Internal Partitioning Industry.

This wealth of invaluable knowledge guided our decisions to implement these practical ideas and suggestions into our profile designs.

The creation of our seismic tested Headstarter Restraint Bracket was to effectively provide a solution, to resolve the concerns of Architects and the Construction Industry surrounding the various seismic movement encountered during an earthquake.



ULLRICH ALUMINIUM DESIGNER INTERNAL PARTITIONING SYSTEM

INTRODUCTION

HEADSTARTER RESTRAINT BRACKET

– Seismic Tested – IP Protected –

Our seismic tested Headstarter Restraint Bracket design is the “First of its Kind” capable of maintaining adequate, structural support during the dynamic floor motions experienced in an earthquake, specifically for internal partitioning walls.

Our Restraint Bracket’s main function once braced to the subfloor, is not only to secure and maintain the top location of the internal partitioning wall, but will also provide the additional level of protection and safety required, during an earthquake.

Our Restraint Bracket has been officially tested by accredited New Zealand Engineers, to demonstrate seismic compliance with the structural specifications of the New Zealand Building Code, Earthquake Standard NZS 1170.5

Our Tested Restraint Bracket provides exceptional strength during its operational movement, to ensure the required performance, during the range of horizontal and vertical seismic movement that partitioning walls may experience during an earthquake.

Additional information on the Headstarter Bracket and its installation are also included in this brochure.



INDEPENDENTLY TESTED BY

HOLMES SOLUTIONS – ENGINEERING CONSULTANTS –

The Ullrich Designer Headstarter Restraint Bracket design has been seismic tested by Holmes Solutions and found to have a maximum earthquake bracing capacity of 450kg.

In a “first of its kind test” in New Zealand, the Ullrich Designer Headstarter Restraint Bracket design was found to be capable of maintaining structural support to partitions during dynamic floor motions, equivalent to the maximum prescribed motions under New Zealand earthquake standard NZS 1170.5

These floor motions are designed to represent the motion of a building during the ground shaking associated with an earthquake of magnitude greater than M7.5

The span capacity information provided is based on testing completed by Holmes Solutions and is provided to assist competent designers in demonstrating compliance with the structural provisions of the New Zealand Building Code. It is not intended to replace specific engineering review by a competent designer.



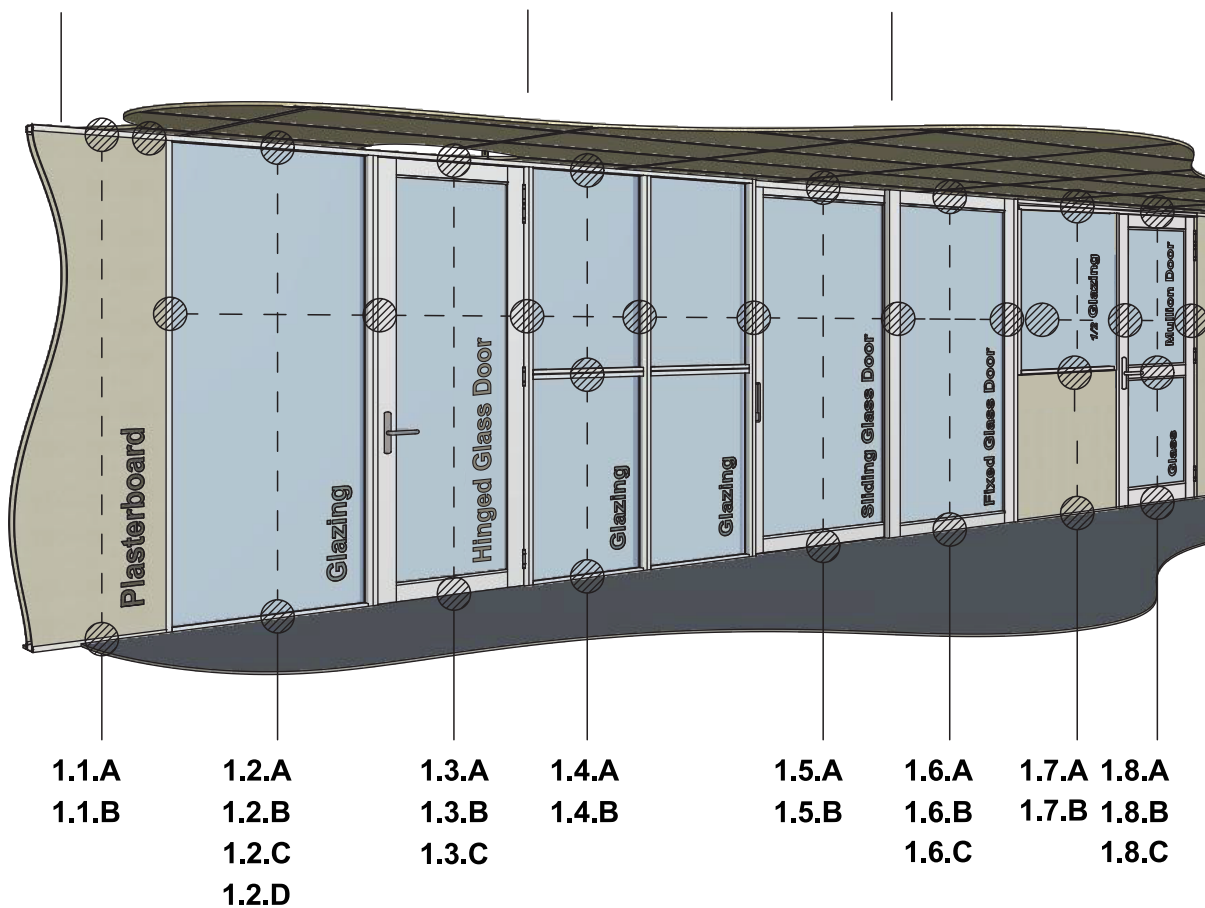


ULLRICH DESIGNER PARTITIONING SYSTEMS

2.1.A
2.1.B
2.1.C

SECTION PROFILES
Page 33 - 38

ACCESSORIES
Page 39



Details for Architects, Designers and Installers

Typical for 104mm & 132mm suites

- 104mm PROFILES = 63.5mm STEEL STUD
- 132mm PROFILES = 92mm STEEL STUD
- Steel Stud and Track installed to Rollformers specifications www.rollformers.co.nz
- 13mm & 16mm Plasterboard installed to Winstone Wallboards GIB specifications www.gib.co.nz
- Up to 12.38mm Maximum Laminated Glazing Thickness
- DESIGNER PROFILES & ACCESSORIES

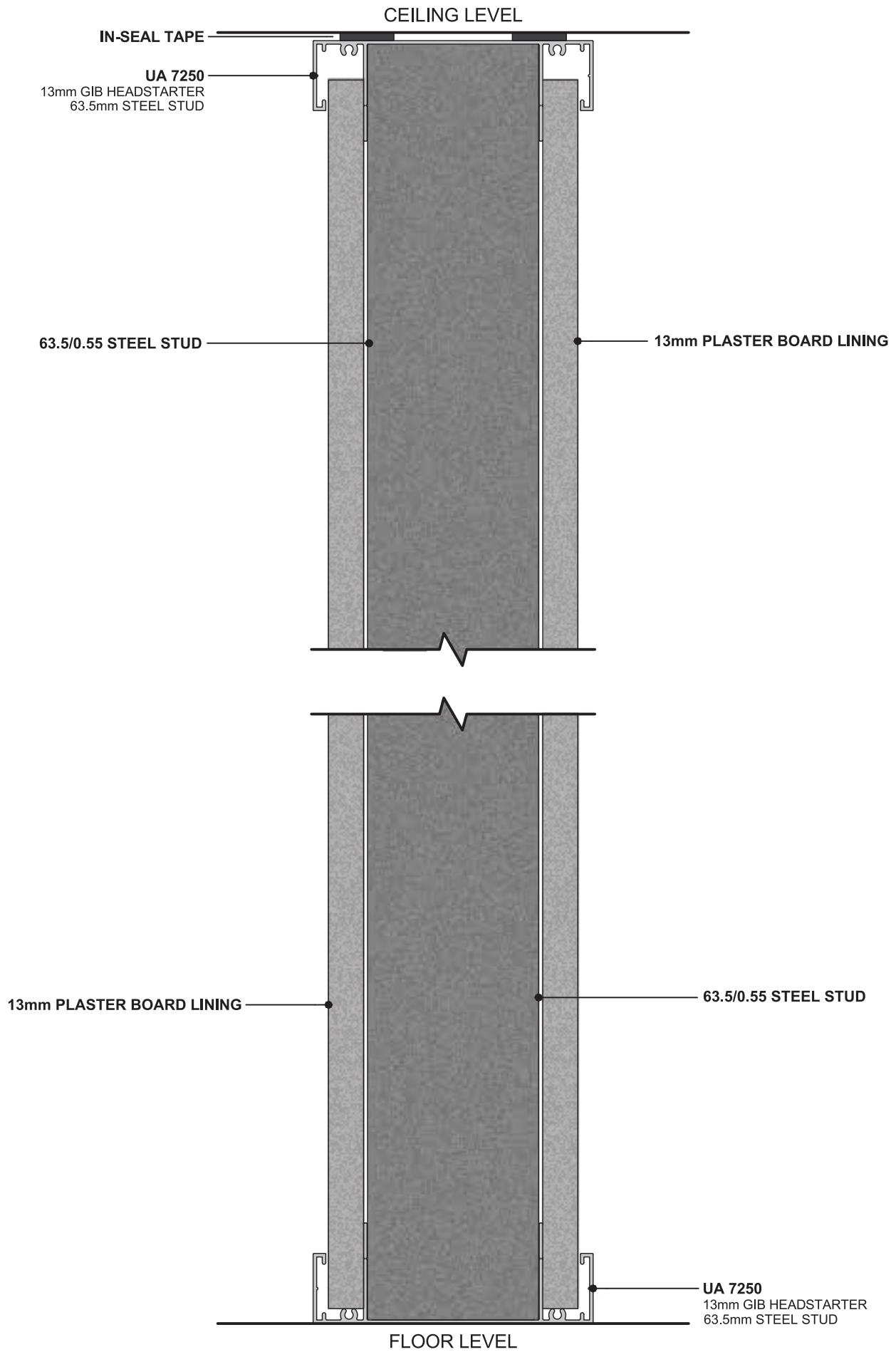
Headstarter Restraint Bracket Information

- BRACKET DETAILS
- BRACKET INSTALLATION INSTRUCTIONS
- BRACKET SPACING SPECIFICATIONS

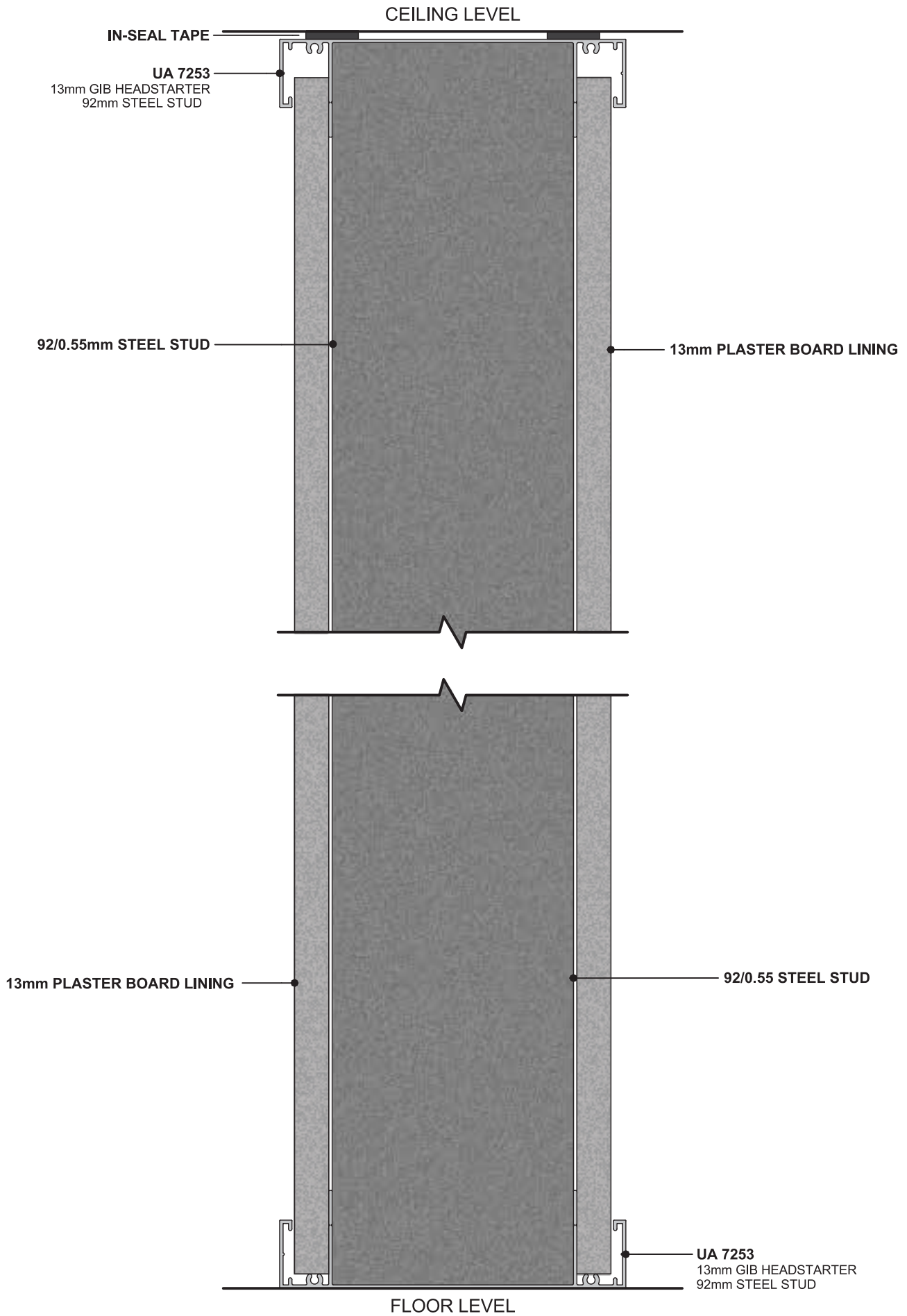
ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS

WALL ASSEMBLY GUIDE



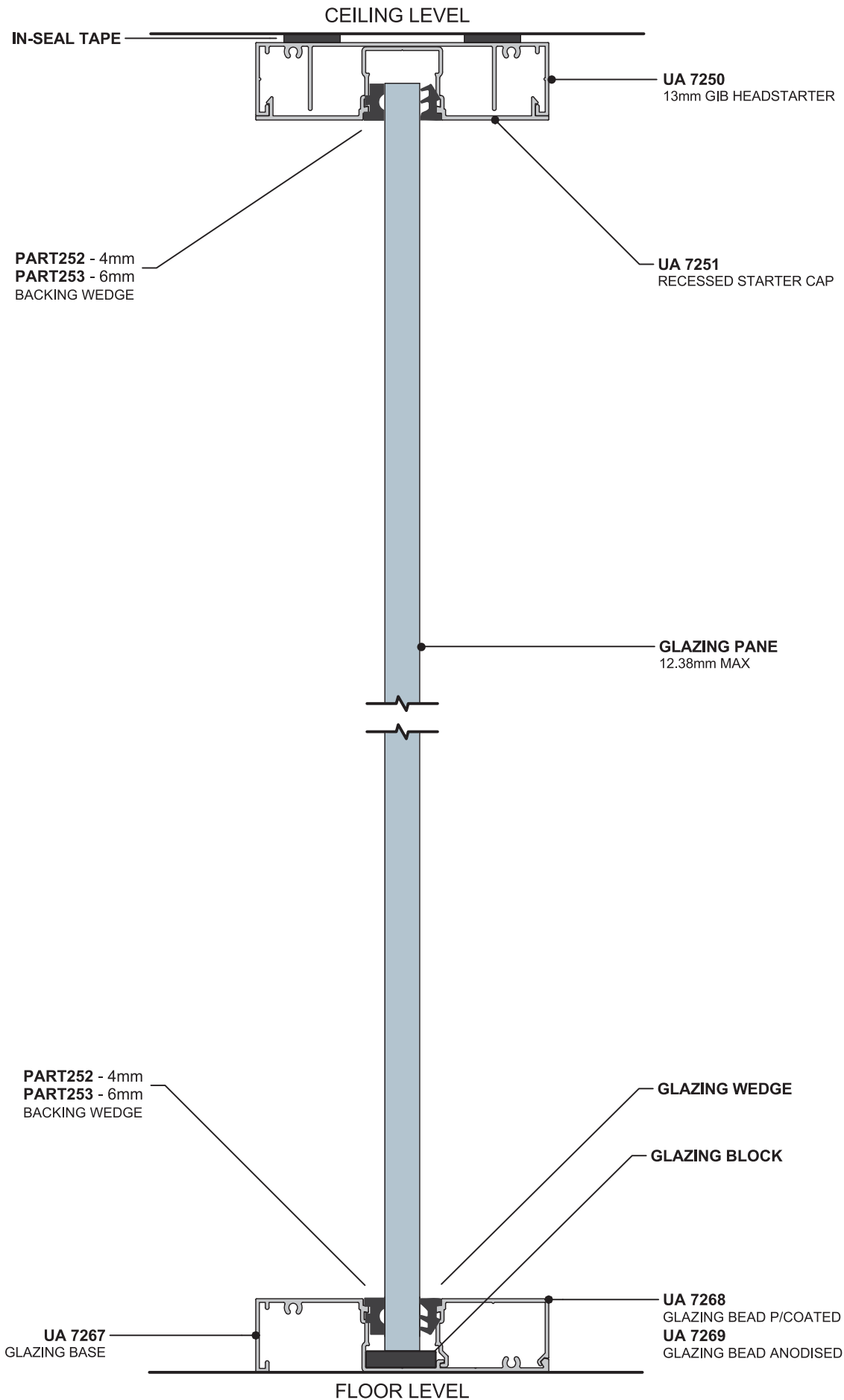


ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS 104mm - FULL HEIGHT 63.5mm STEEL STUD WALL
1.1.A SHEET
 VERTICAL CROSS SECTION DETAIL

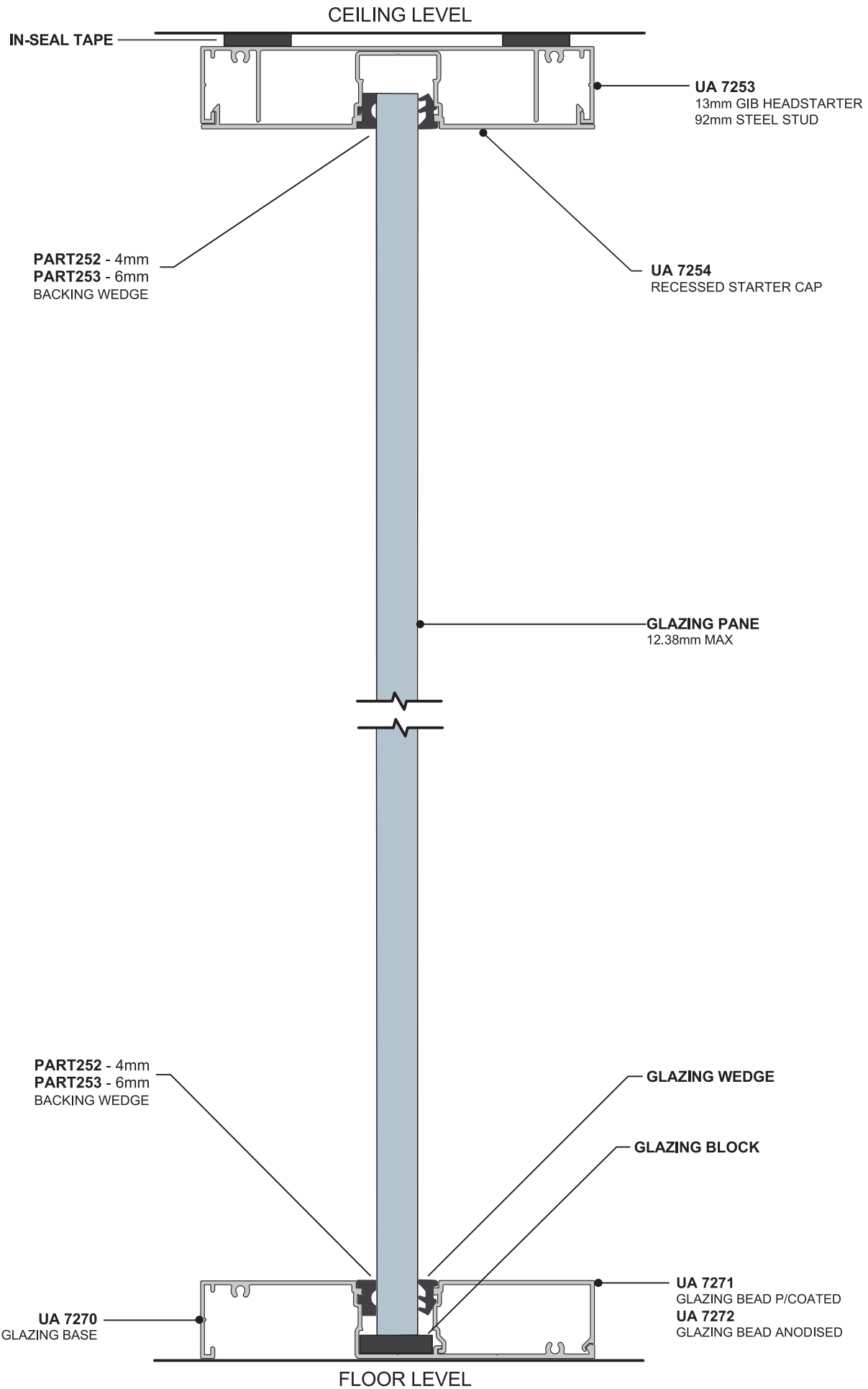


ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS 132mm - FULL HEIGHT 92mm STEEL STUD WALL
1.1.B SHEET
 VERTICAL CROSS SECTION DETAIL



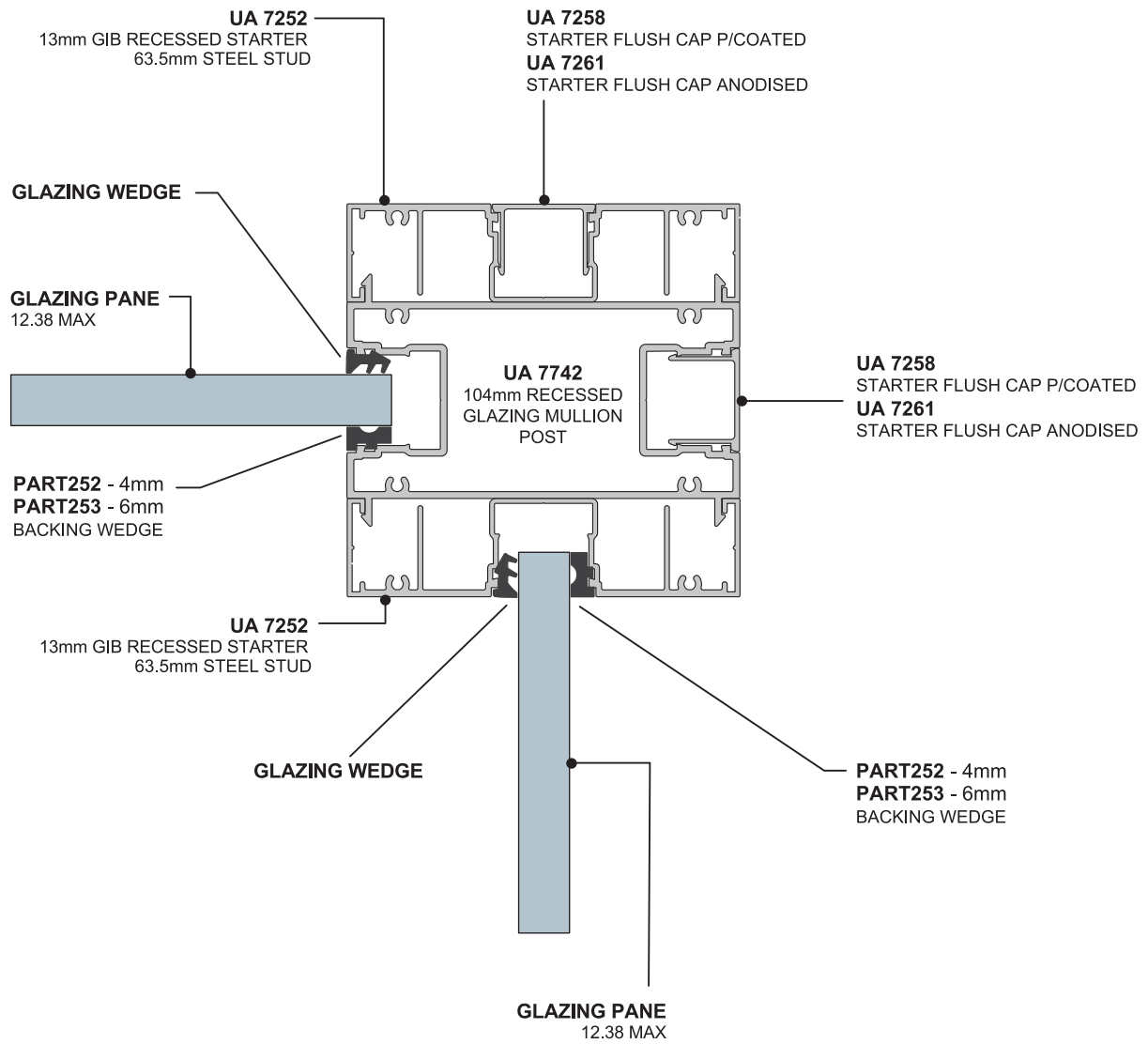


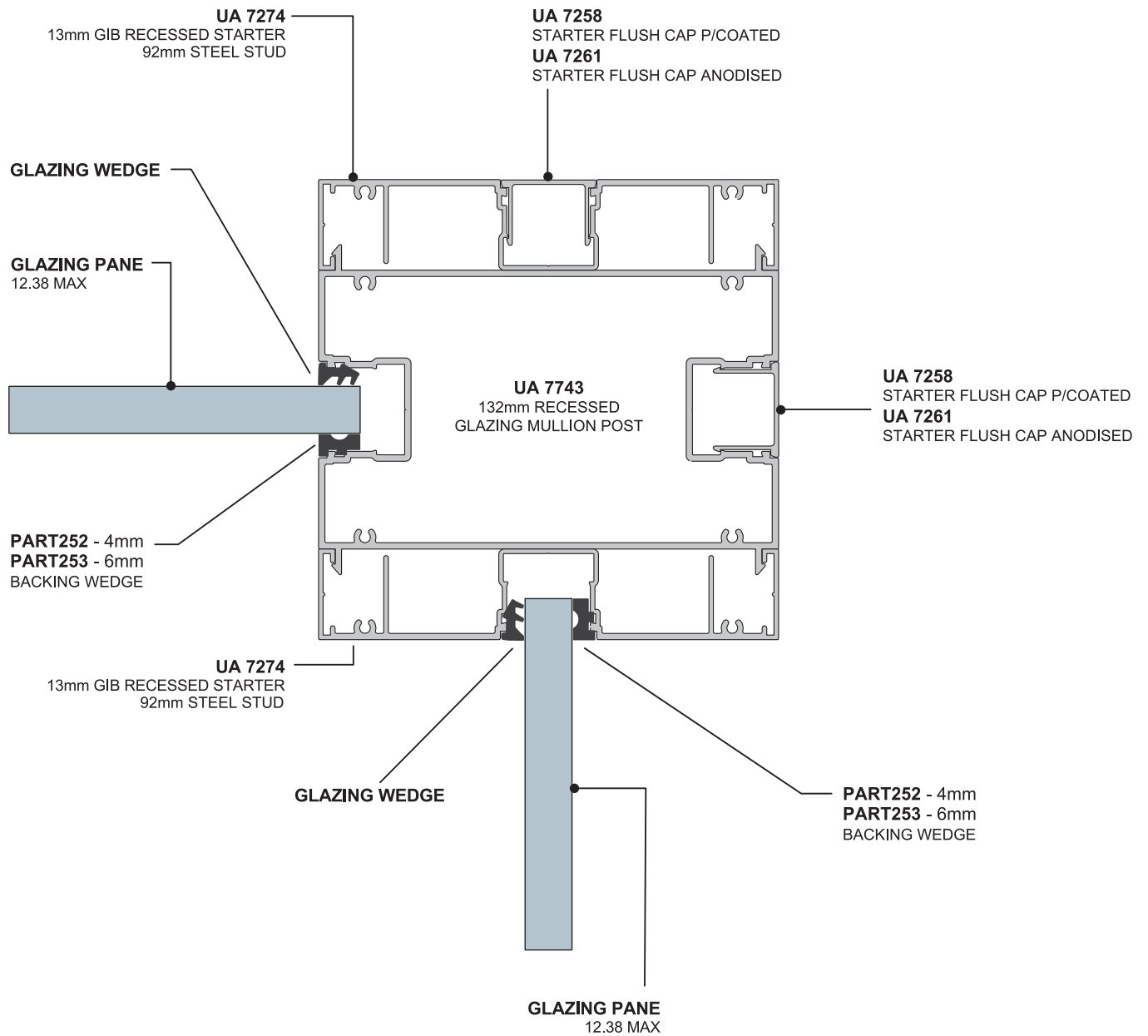
ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS 104mm - FULL HEIGHT GLAZING 63.5mm STUD
1.2.A SHEET
 VERTICAL CROSS SECTION DETAIL

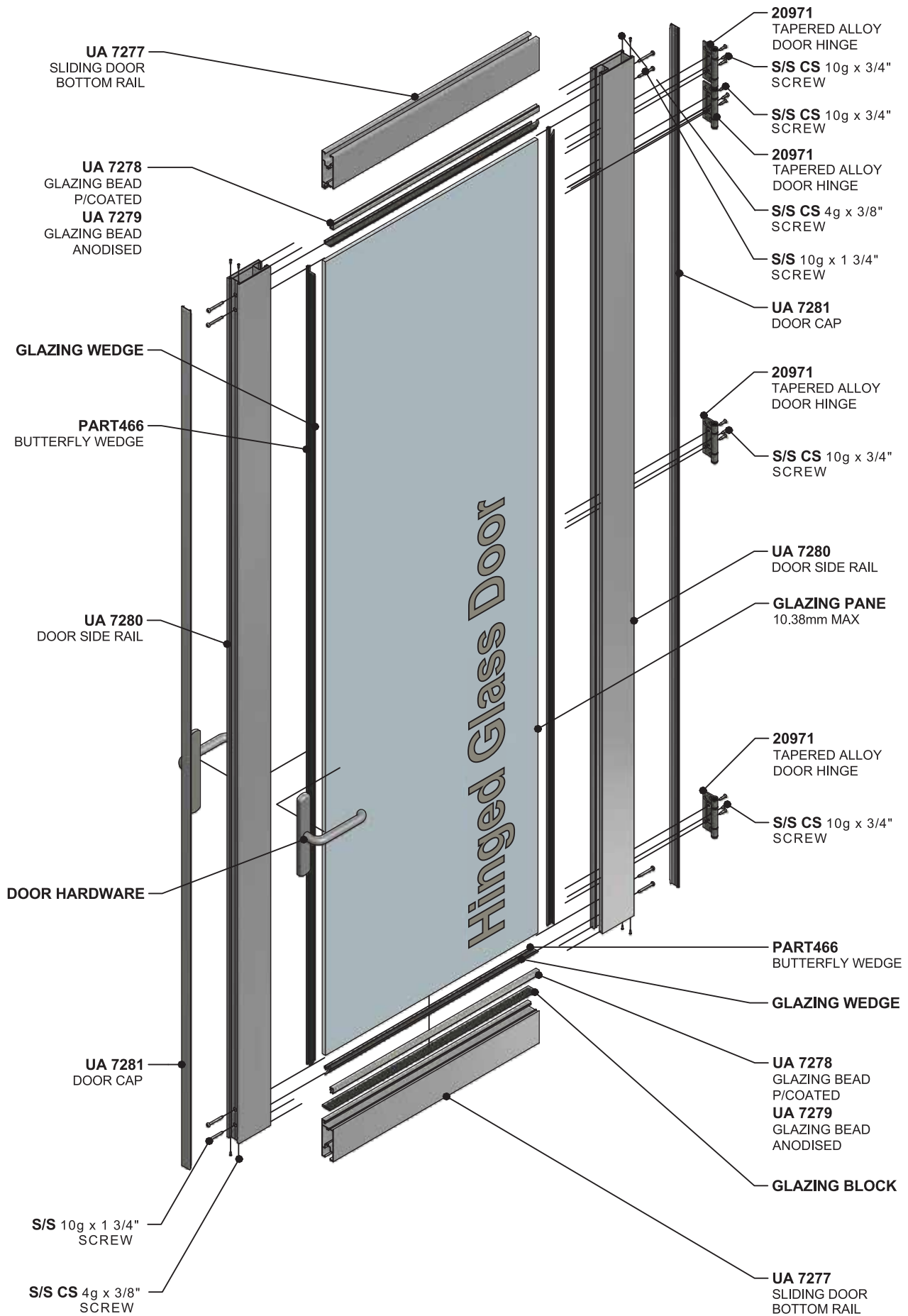


ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS 132mm - FULL HEIGHT GLAZING 92mm STUD
1.2.B SHEET
 VERTICAL CROSS SECTION DETAIL

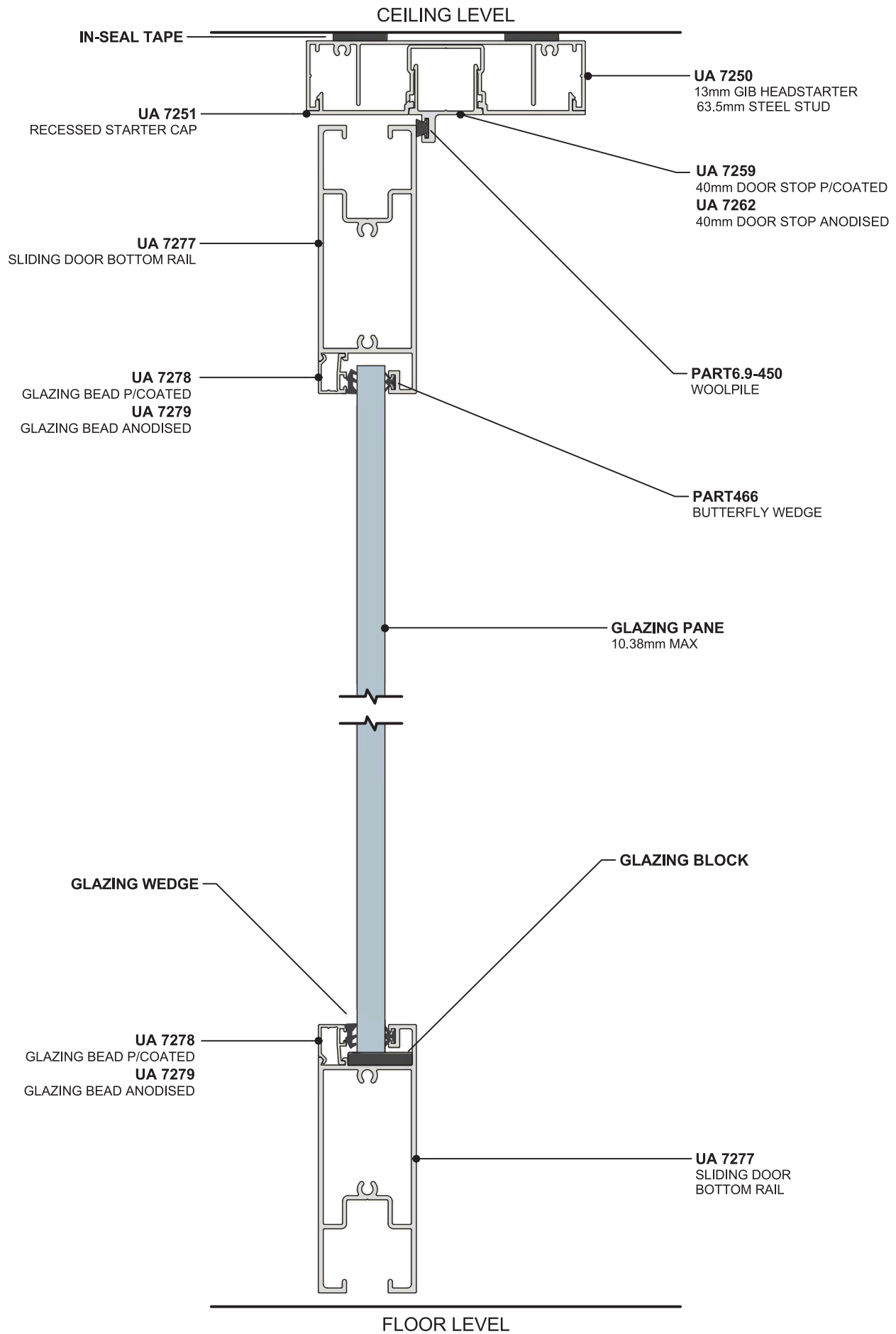


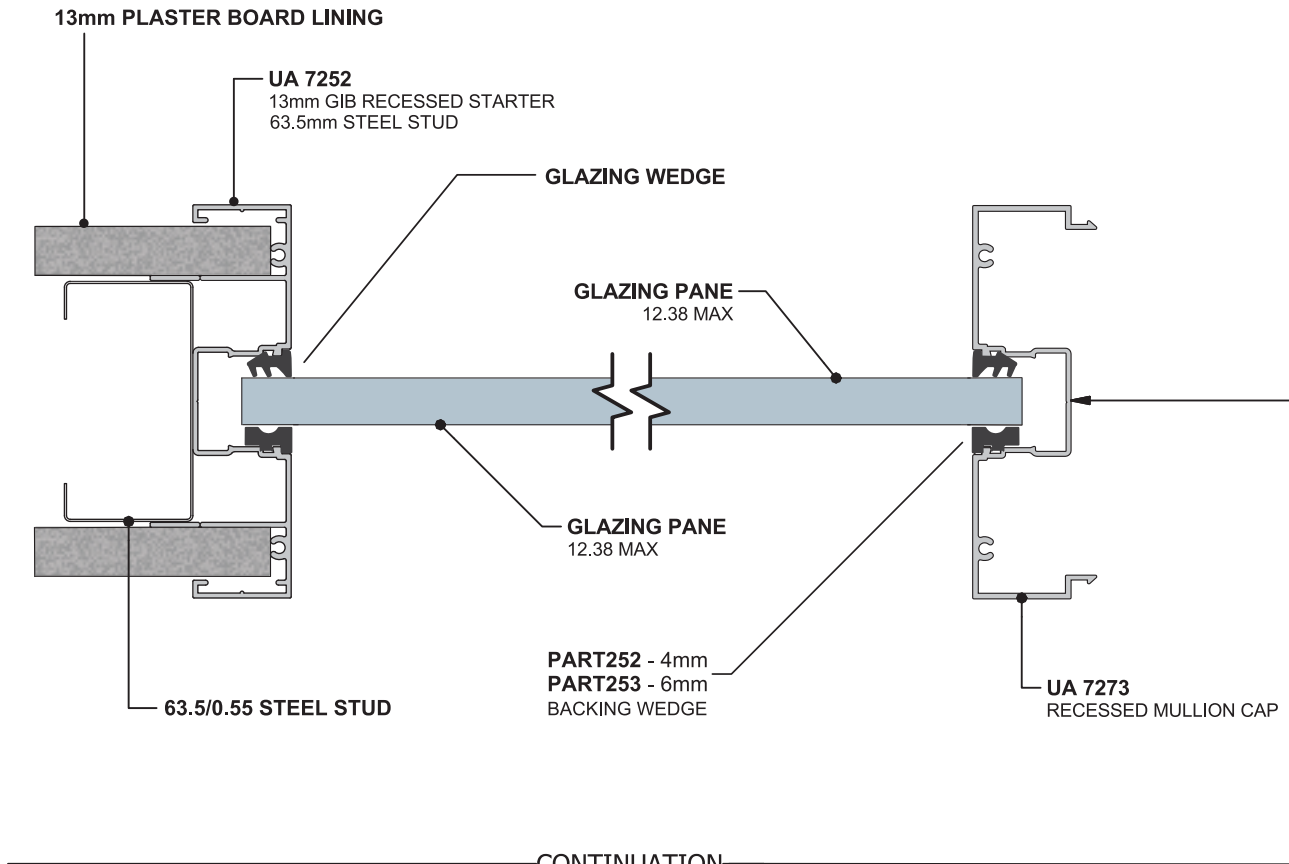




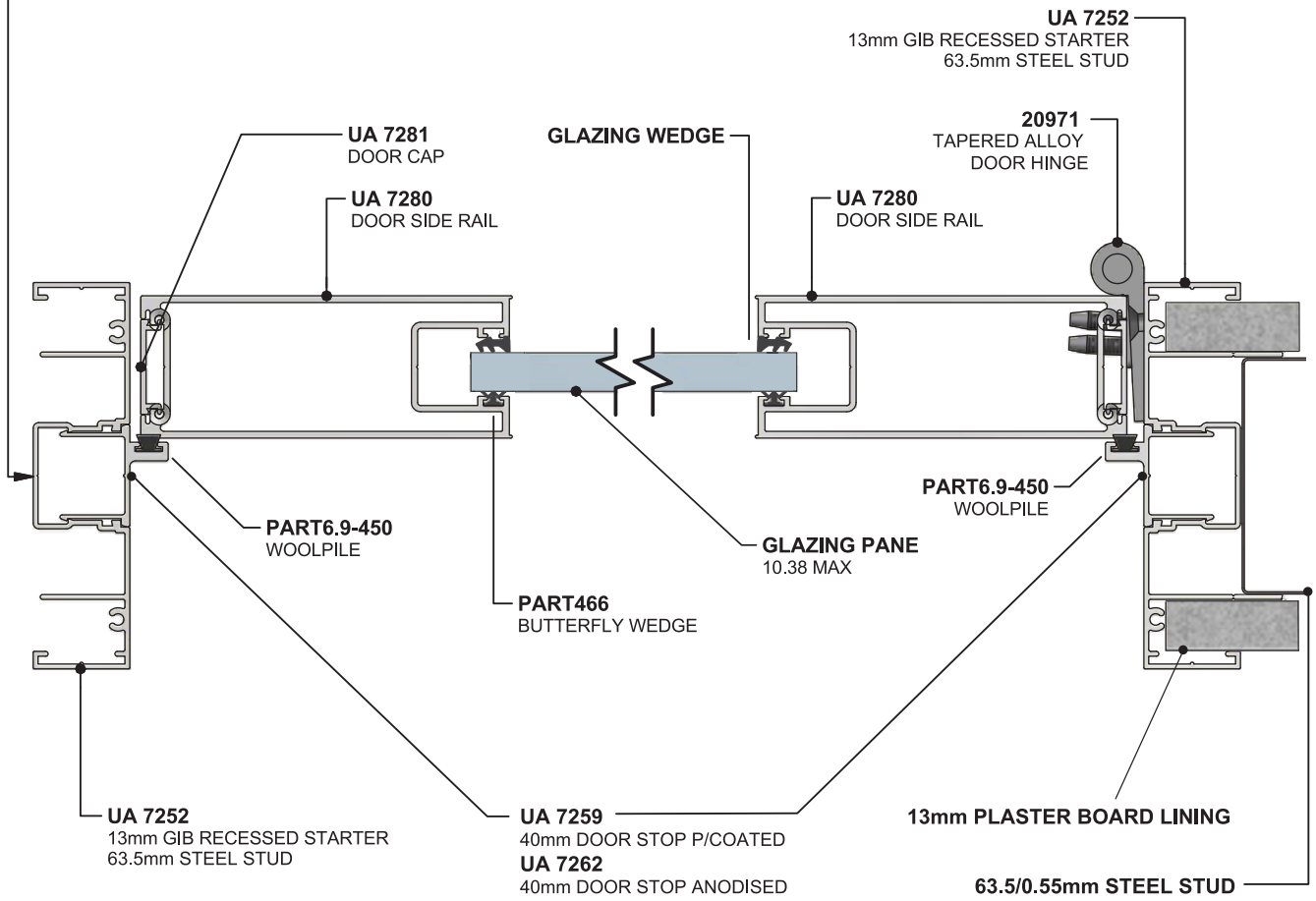


ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS - FULL HEIGHT HINGED GLASS DOOR
1.3.A SHEET
 EXPLODED DETAIL



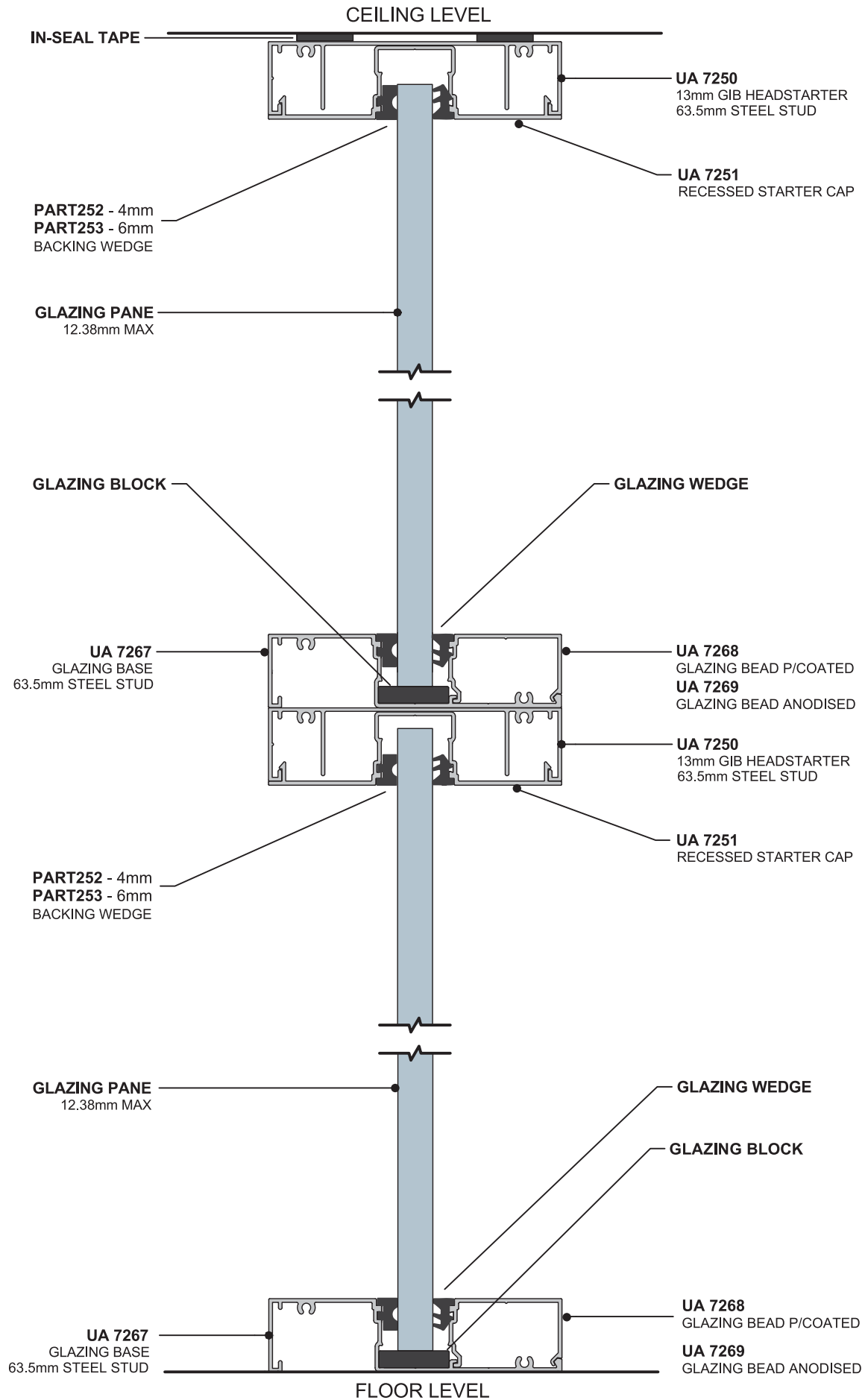


CONTINUATION

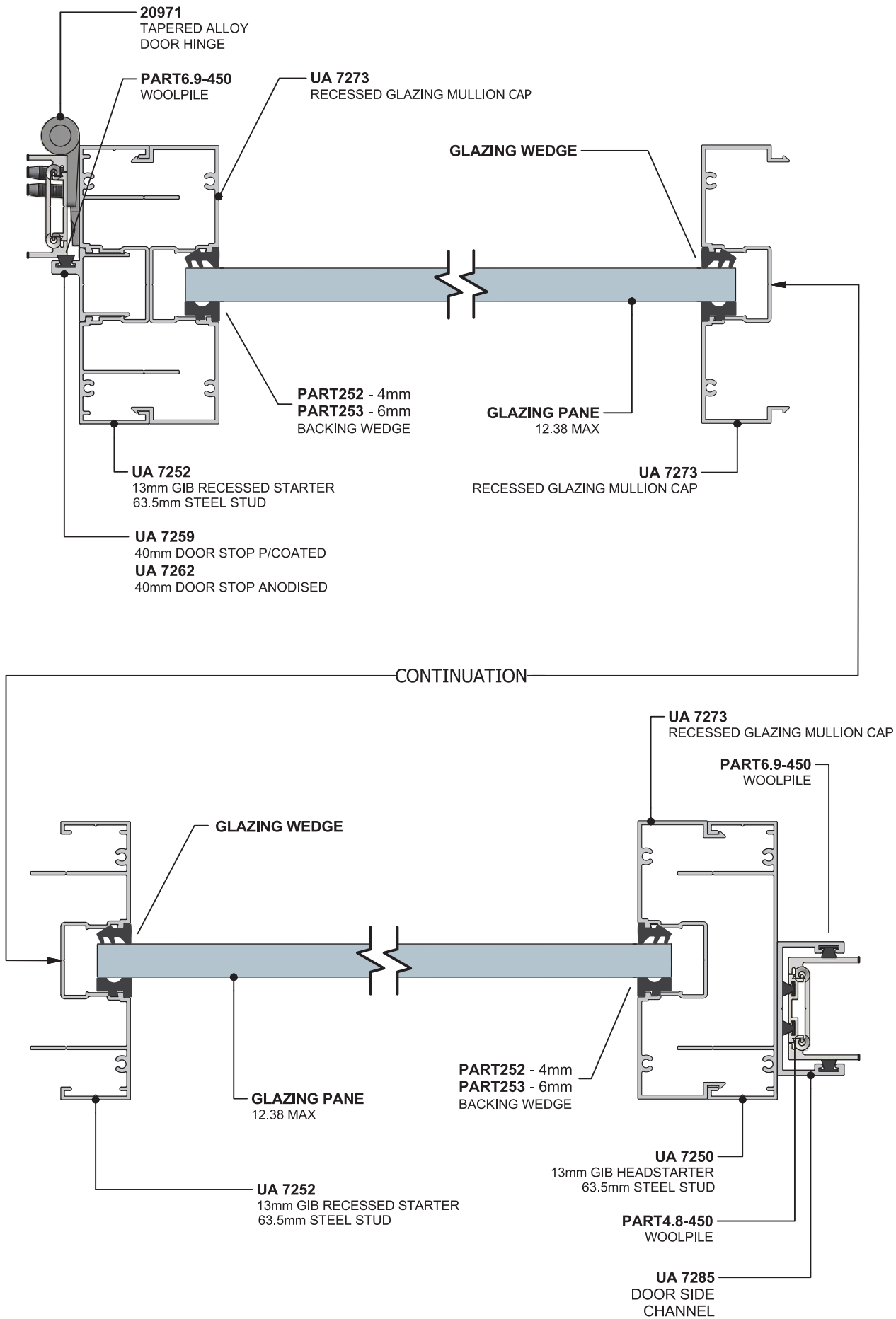


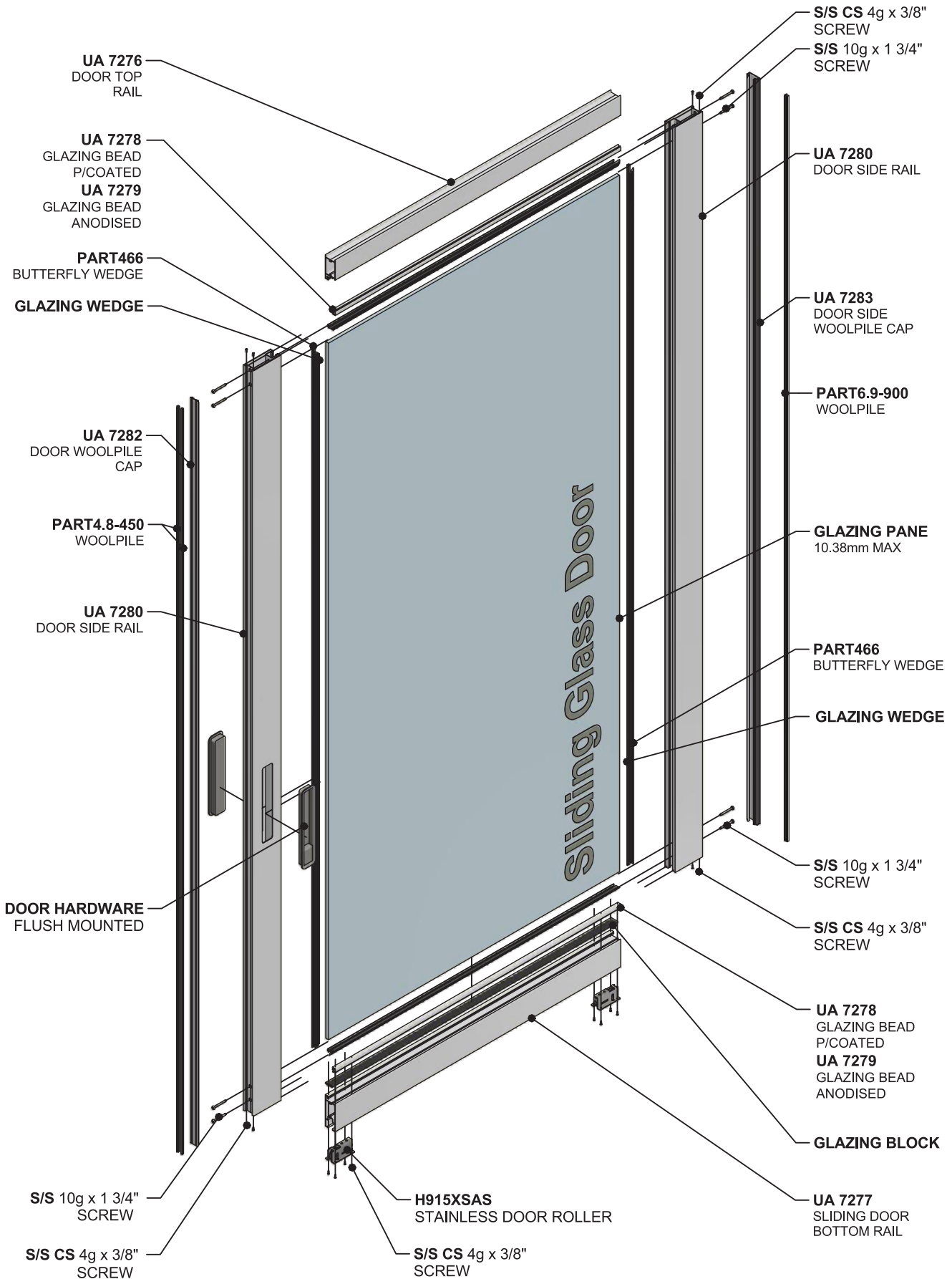
ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS 104mm - GLAZING / HINGED GLASS DOOR 63.5mm STUD
1.3.C SHEET
 HORIZONTAL CROSS SECTION DETAIL



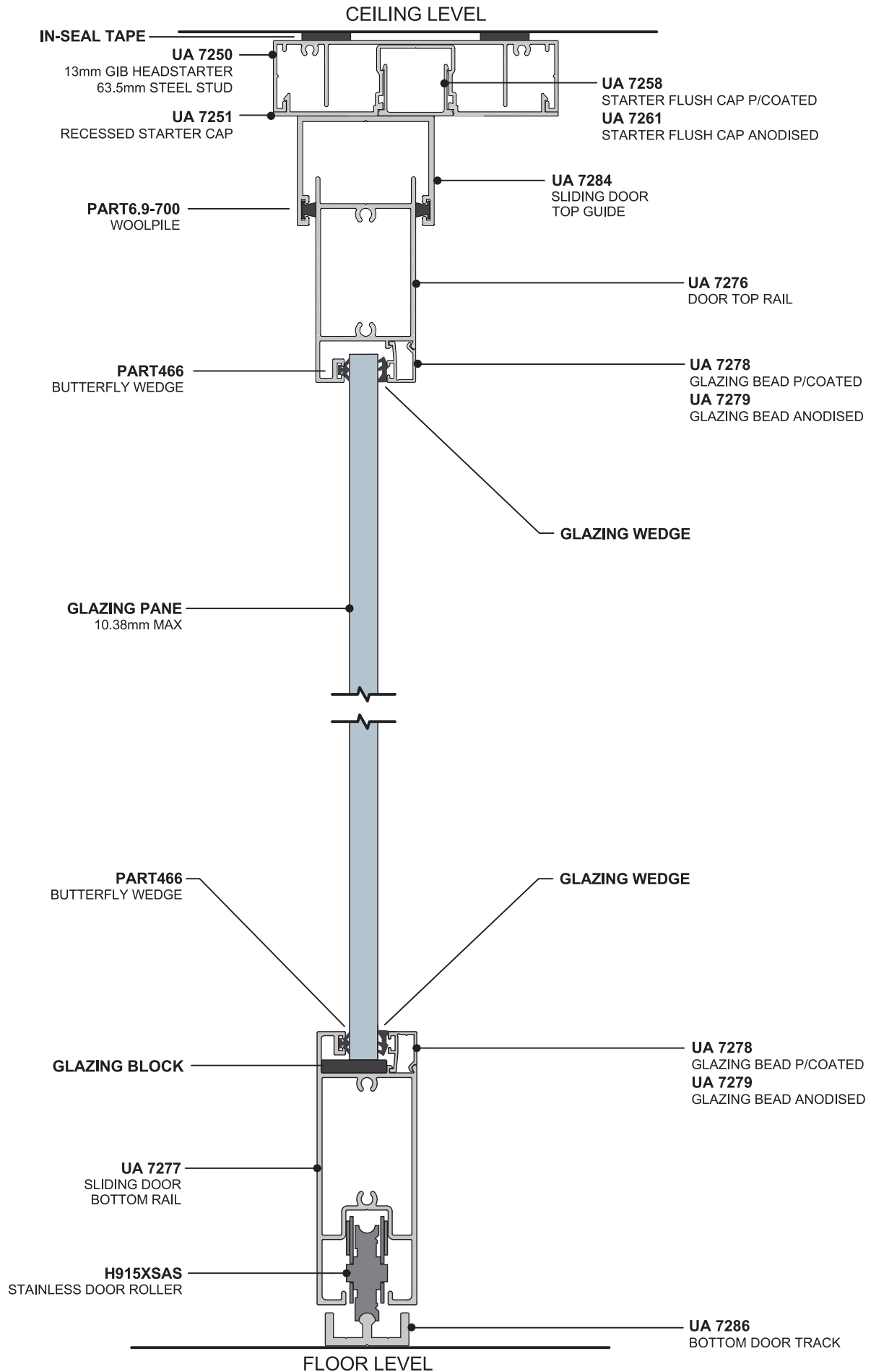


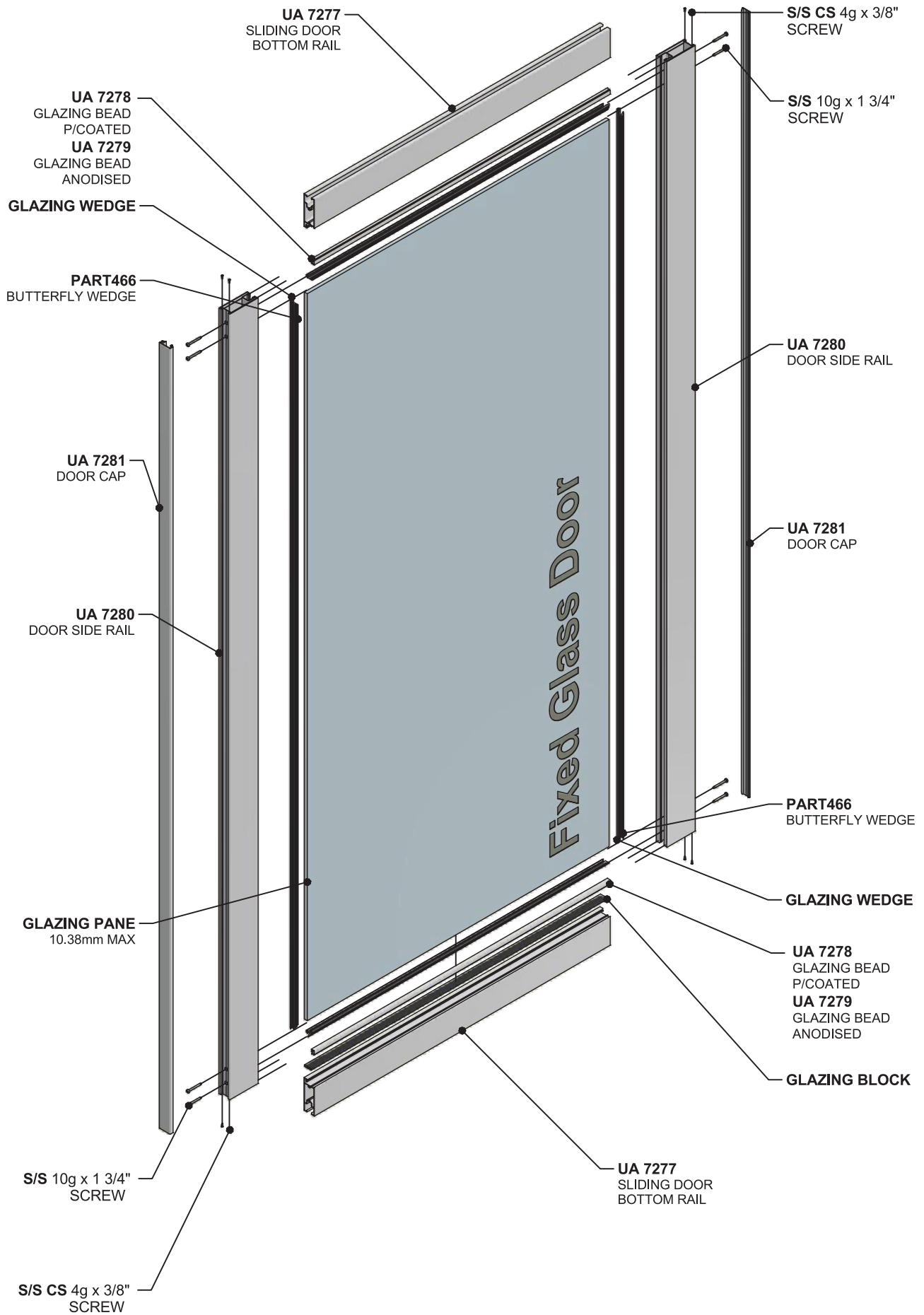
ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS 104mm - TRANSOM GLAZING 63.5mm STUD
1.4.A SHEET
 VERTICAL CROSS SECTION DETAIL



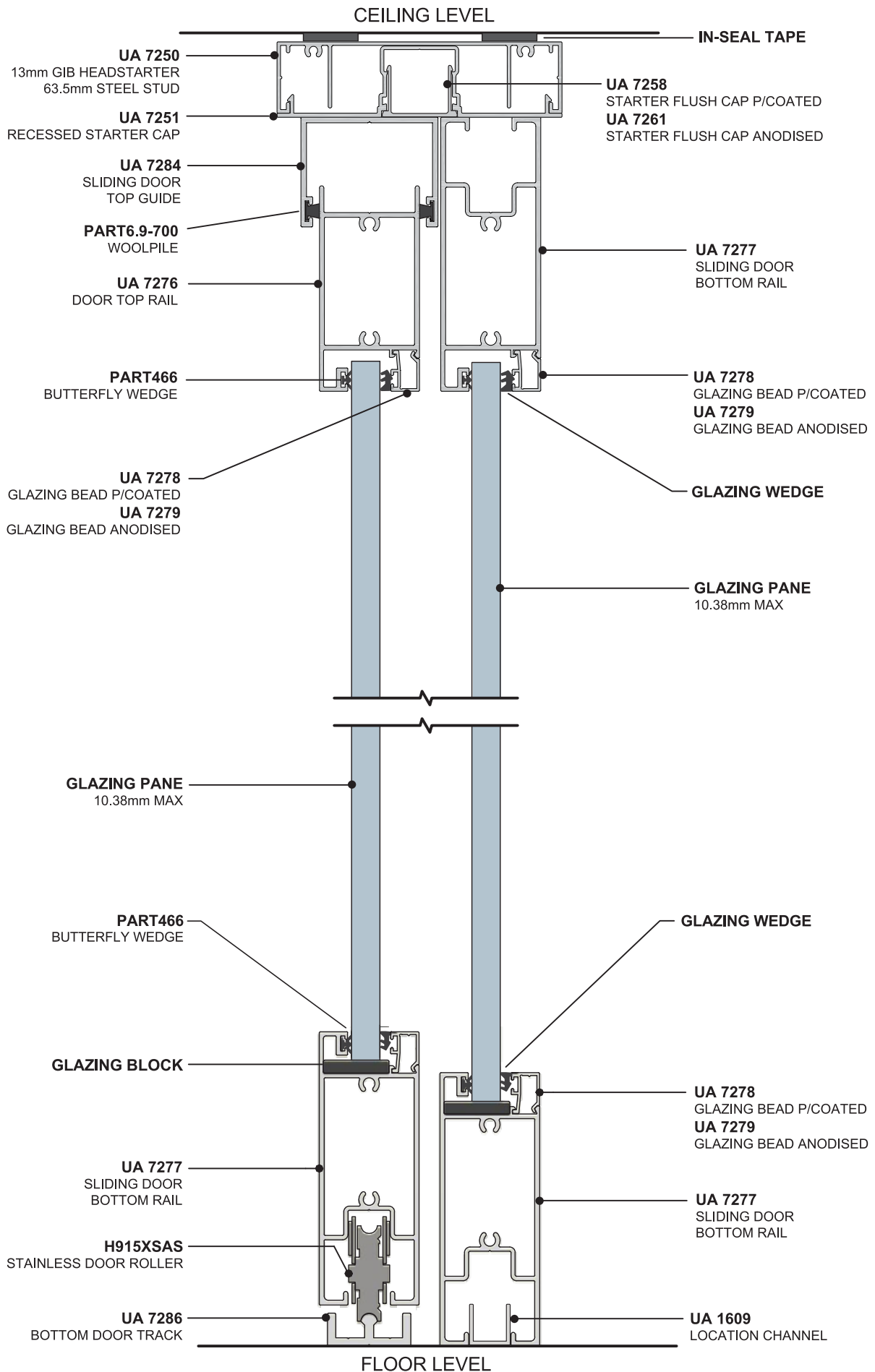


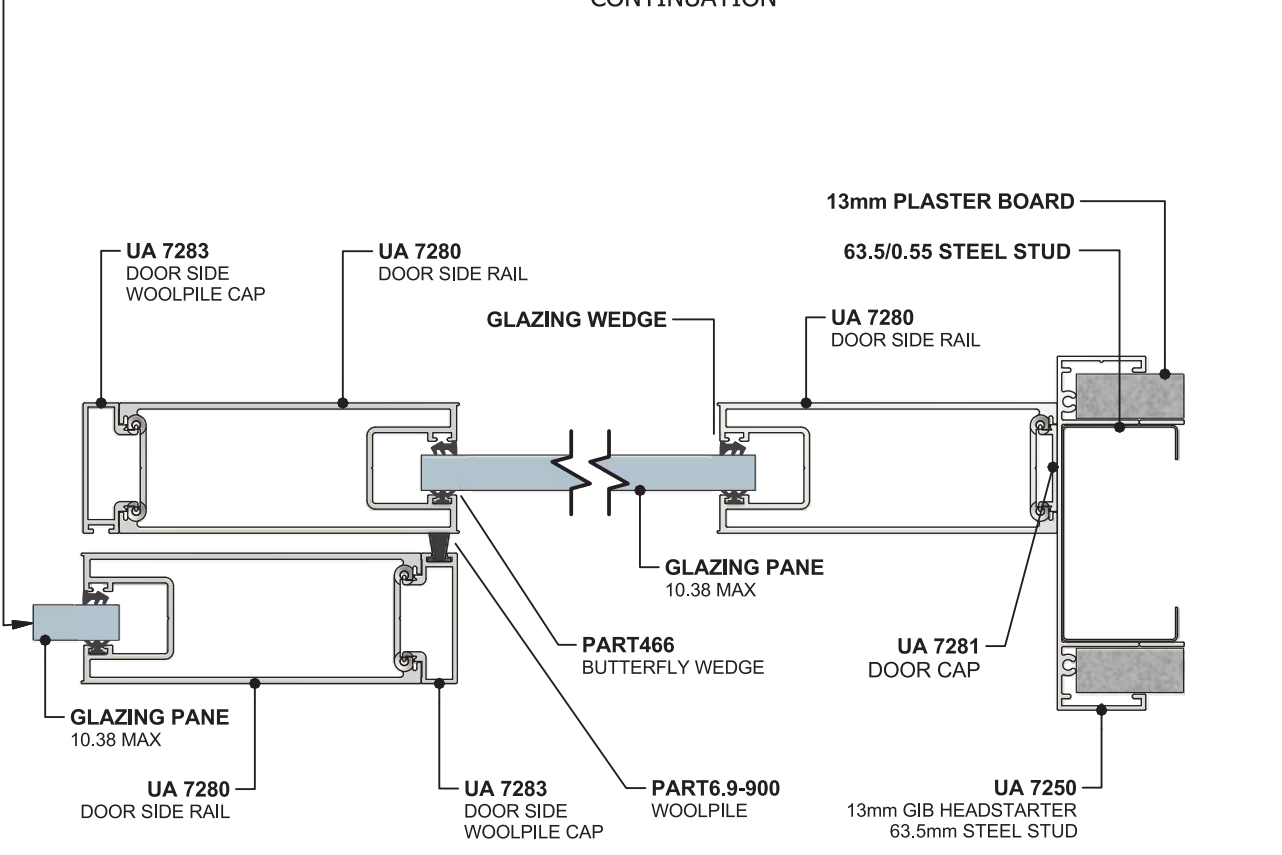
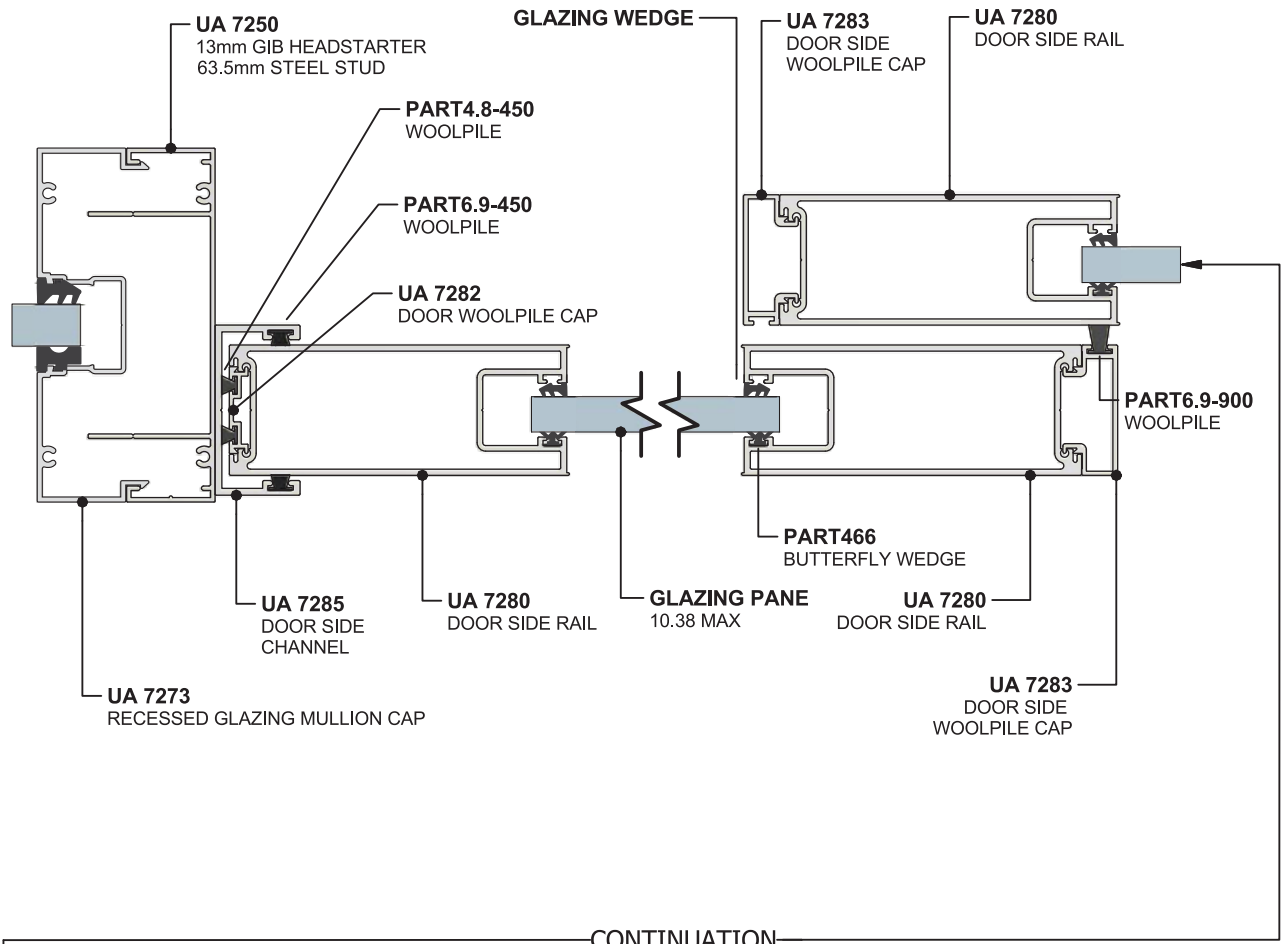
ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS - FULL HEIGHT SLIDING GLASS DOOR
1.5.A SHEET
 EXPLODED DETAIL





ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS - FULL HEIGHT FIXED GLASS DOOR
1.6.A SHEET
 EXPLODED DETAIL

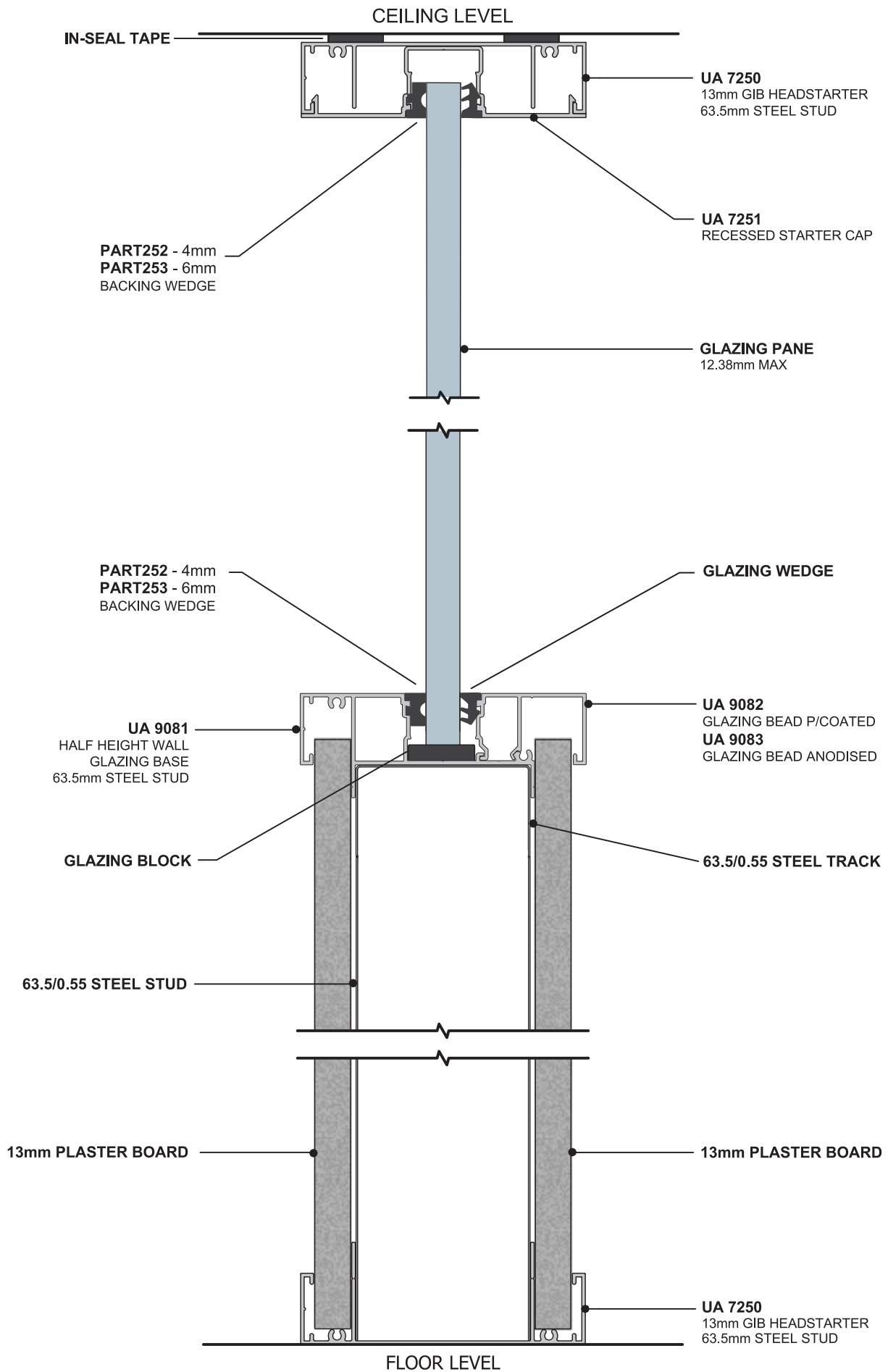




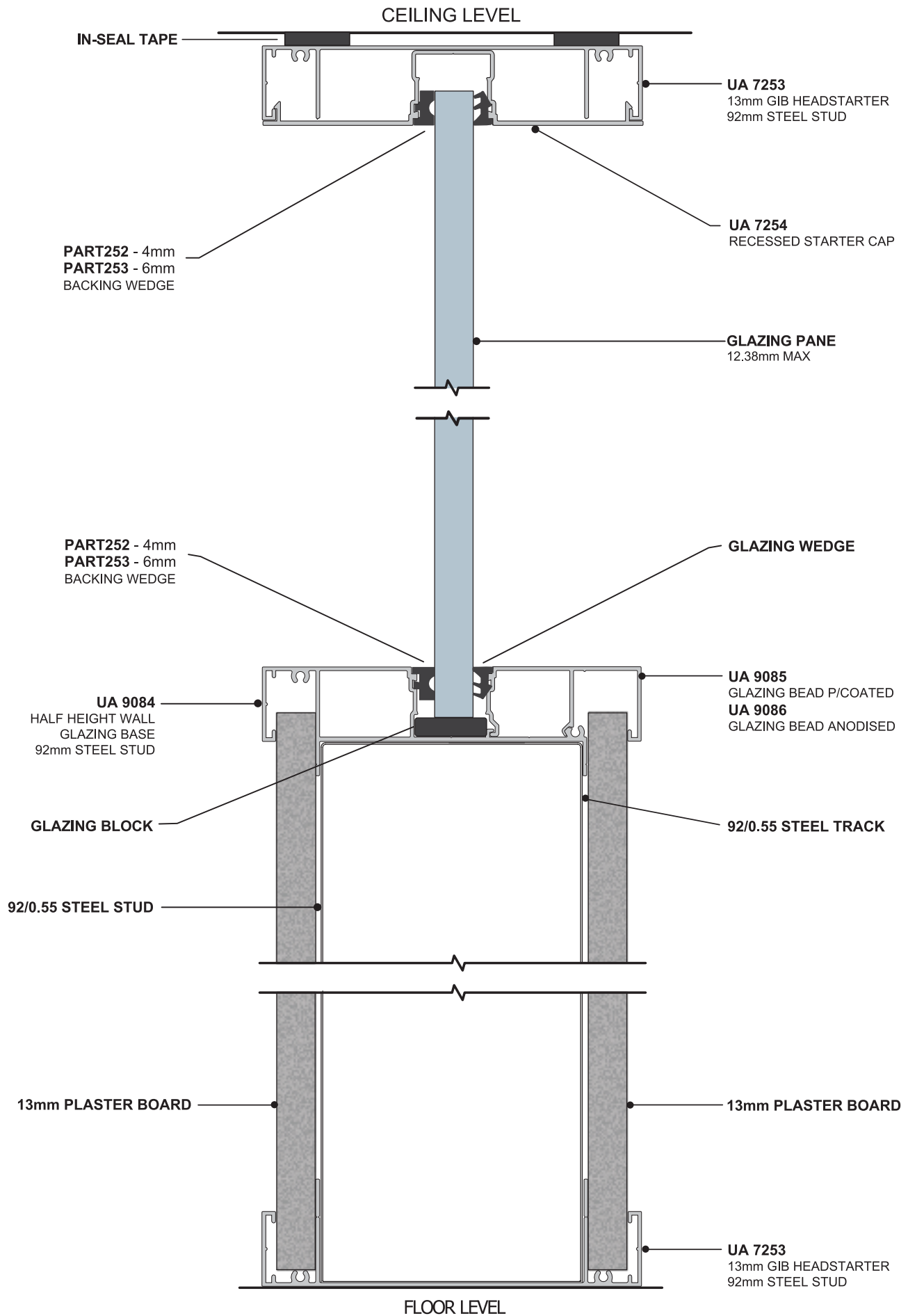
ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS 104mm - FULL HEIGHT FIXED / SLIDING GLASS DOOR
1.6.C SHEET
 HORIZONTAL CROSS SECTION DETAIL

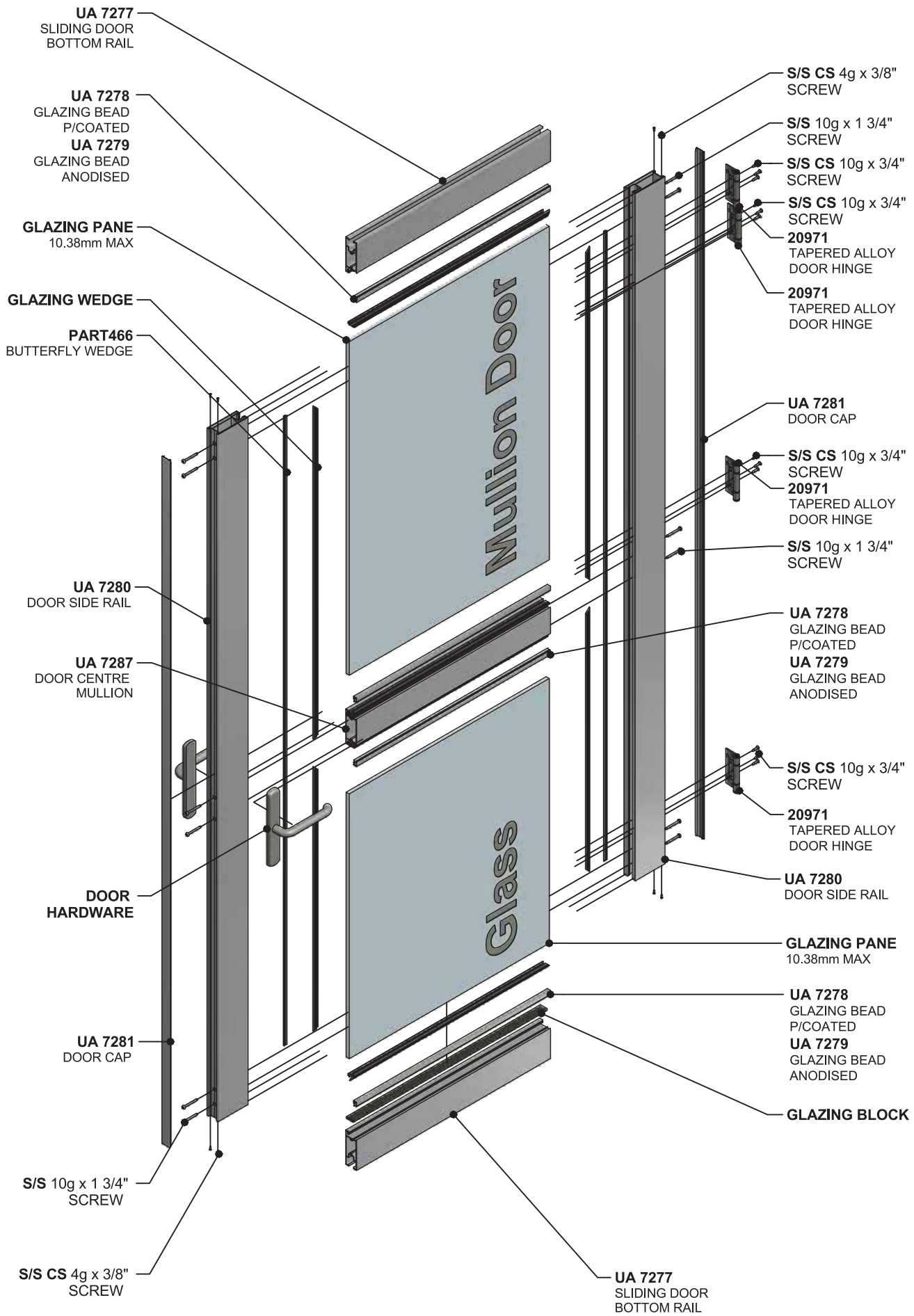
63.5mm STUD



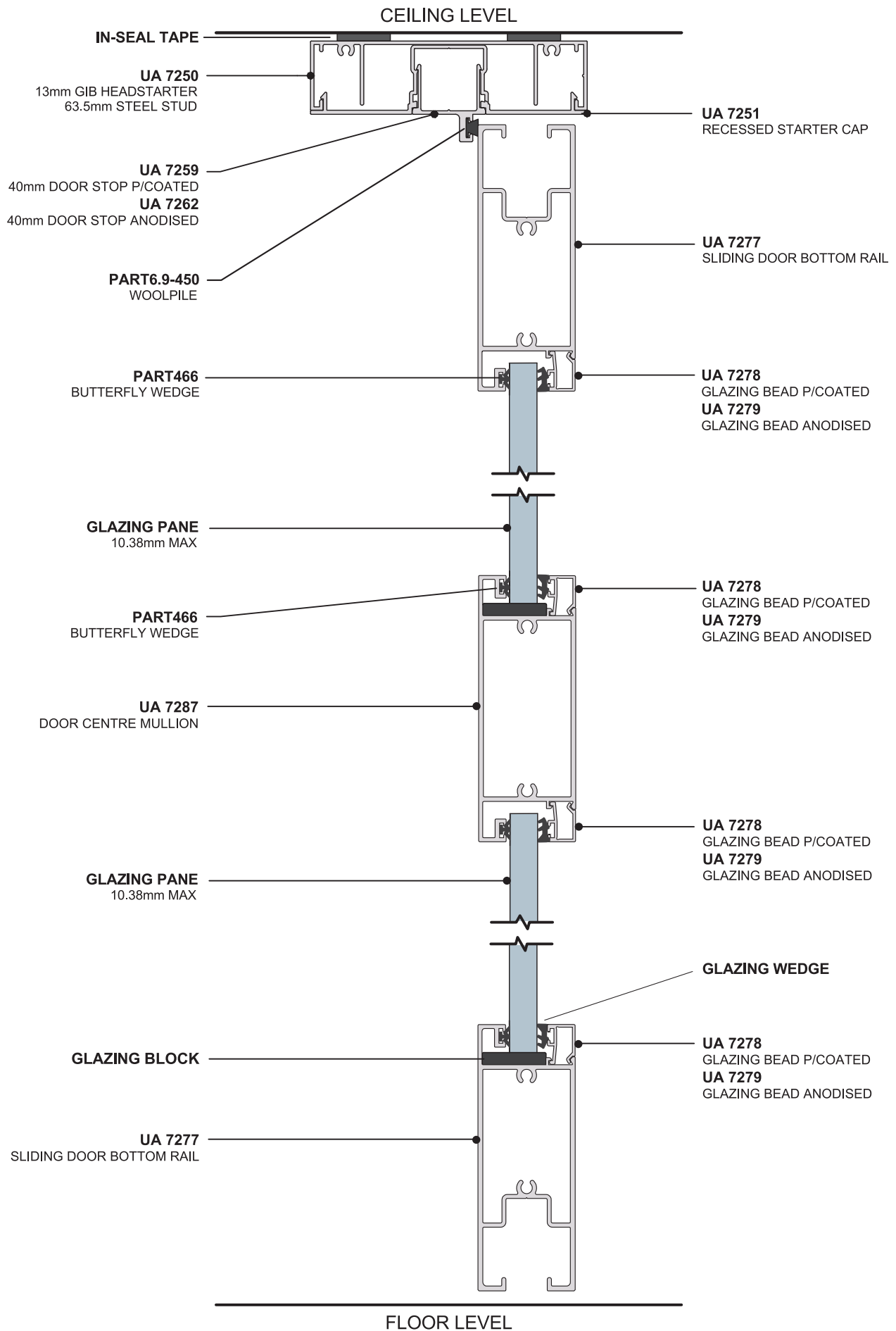


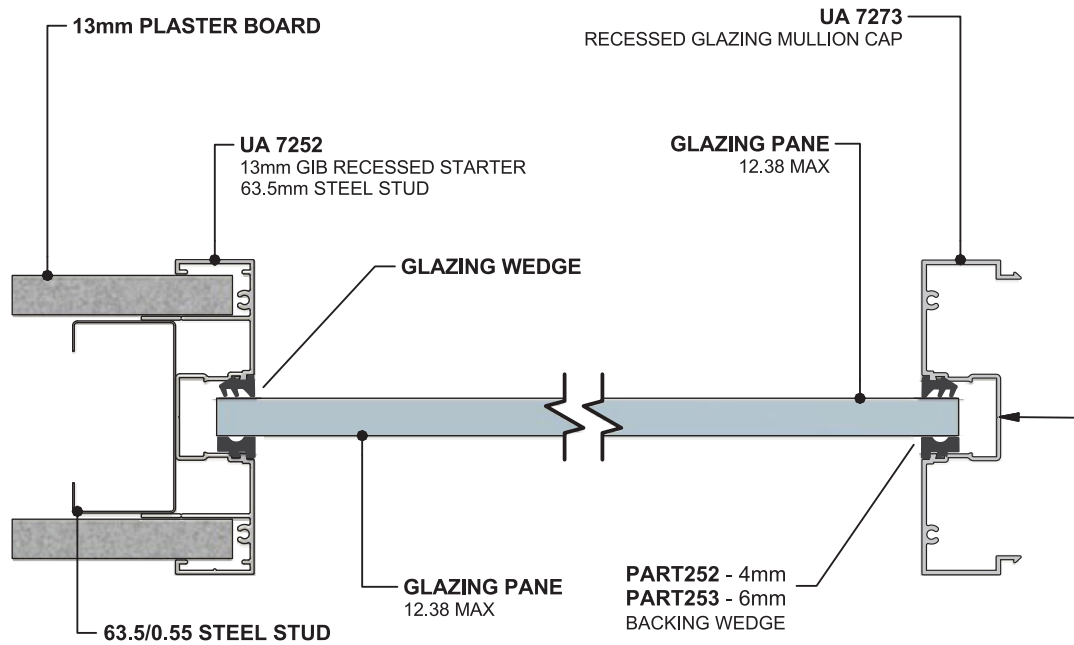
ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS 104mm - HALF HEIGHT GLAZED WALL 63.5mm STUD
1.7.A SHEET
 VERTICAL CROSS SECTION DETAIL



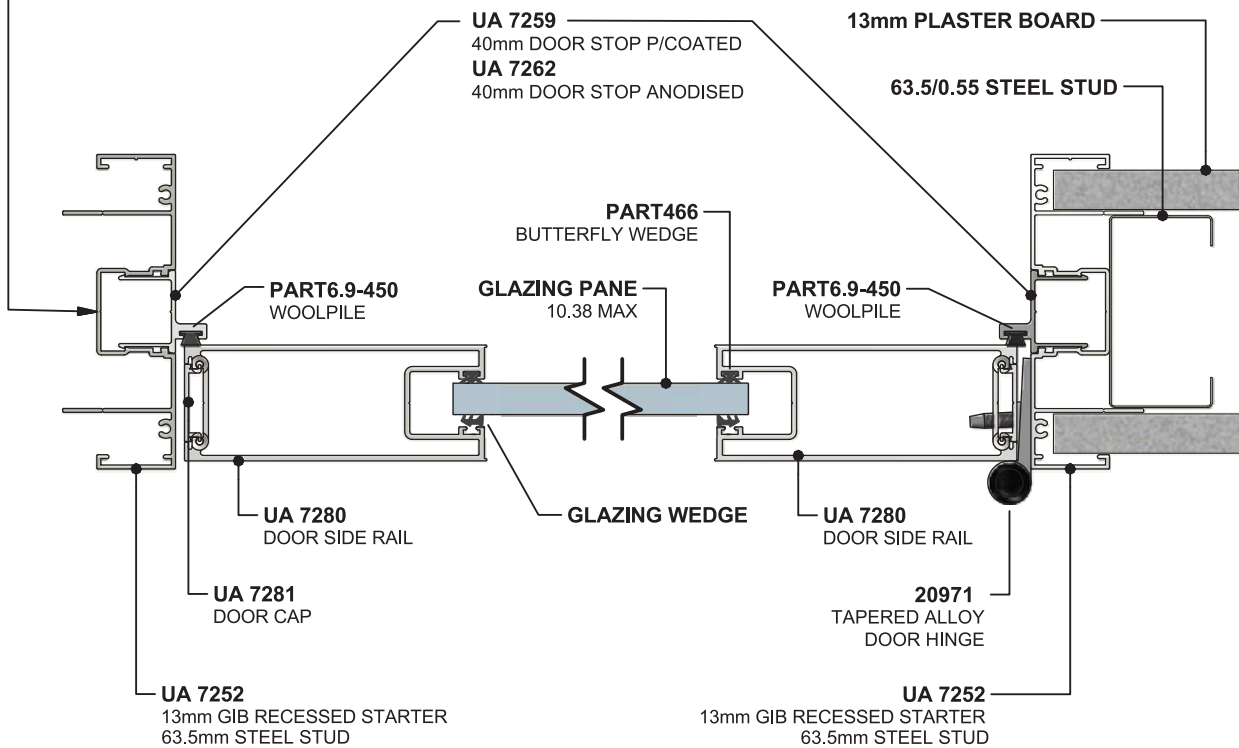


ULLRICH ALUMINIUM
DESIGNER PARTITIONING SYSTEMS - GLAZED / HINGED MULLION DOOR
1.8.A SHEET
EXPLODED DETAIL





CONTINUATION



DESIGNER HEADSTARTER RESTRAINT BRACKET

– Seismic Tested – IP Protected –

28 ***Bracket Seismic Information***

29 ***Bracket Details***

30 ***Bracket Installation Instructions***

31 ***Bracket Spacing Specifications***



INDEPENDENTLY TESTED BY HOLMES SOLUTIONS – ENGINEERING CONSULTANTS –

The Ullrich Designer Headstarter Restraint Bracket design has been seismic tested by Holmes Solutions and found to have a maximum earthquake bracing capacity of 450kg.

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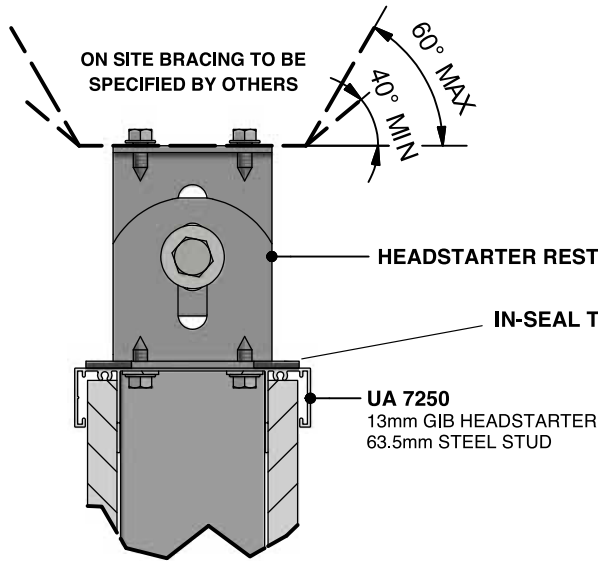
The span capacity information provided is based on testing completed by Holmes Solutions and is provided to assist competent designers in demonstrating compliance with the structural provisions of the New Zealand Building Code. It is not intended to replace specific engineering review by a competent designer.

IMPORTANT NOTICE - SUBSTITUTED PARTITIONING

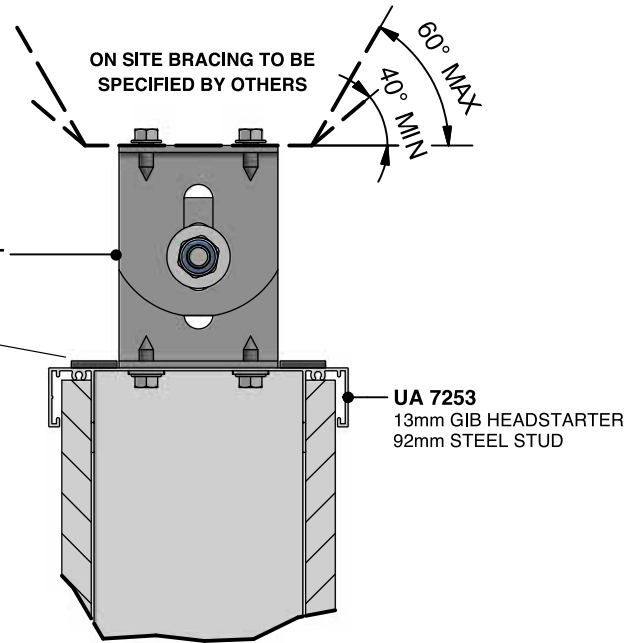
If the Ullrich Aluminium Designer Internal Partitioning System is substituted, Architects, Designers and Installers must ensure that the load path and fixings meet or exceed the above Holmes Solutions, seismic tested design requirements. Ensure the Headstarter Restraint Bracket - designed horizontal Load Capacity of Øv 6.47 kN is also tested independently of the above dynamic floor motions, where the Ullrich Designer Internal Partitioning System is not used.



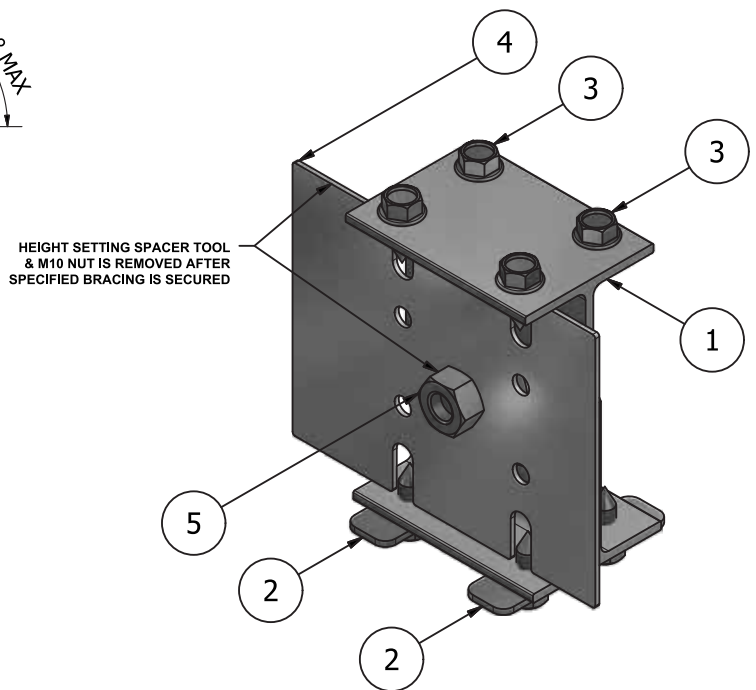
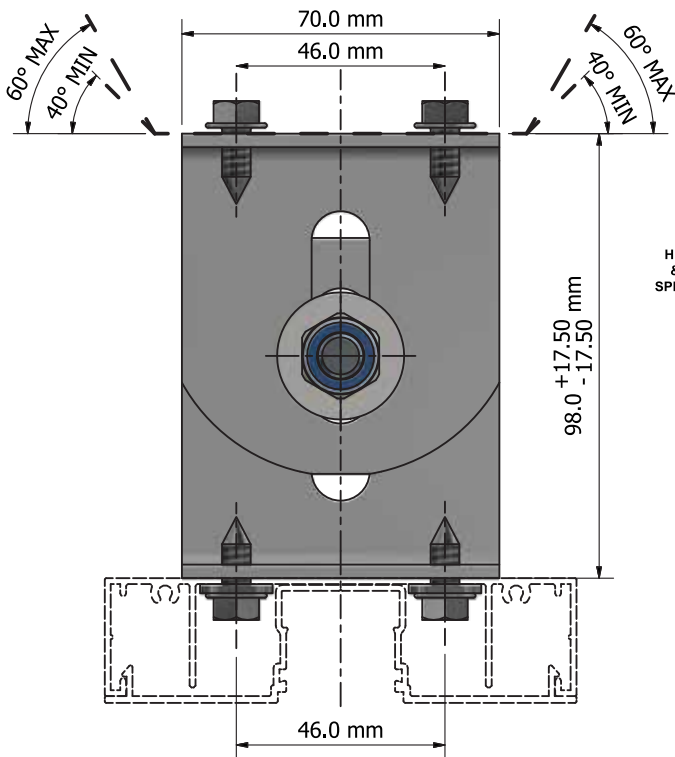
104mm SYSTEM / 63.5mm STEEL STUD



132mm SYSTEM / 92mm STEEL STUD



BRACKET CENTRE MOUNTED ON TOP OF ALUMINIUM HEADSTARTER



ASSUMPTIONS

- 3m HIGH STEEL STUD INTERNAL PARTITION WALL WITH 13mm GIB ON BOTH SIDES
- PARTITION WALL WEIGHT UP TO 40kg/m²
- NO ALLOWANCE FOR WALL FIXINGS SUCH AS WALL MOUNTED AC UNITS OR HEAVY JOINERY FITTINGS
- BUILDING SITE INFO - IMPORTANCE LEVEL 2 STRUCTURE AS PER NZS1170, ALL SOIL CLASSES AS PER NZS1170.5, NO ALLOWANCE FOR NEAR FAULT EFFECTS
- ON-SITE BRACING AND ITS FIXING TO BE SPECIFIED BY OTHERS
- BRACE ANGLE FROM HORIZONTAL BETWEEN 40 DEGREES TO 60 DEGREES

CAPACITY OF BRACKET WITH

- 4 x 14g x 5/8" T17SCREWS WITH 65x16x2mm STAINLESS STEEL DUAL WASHERS = 6.47Kn

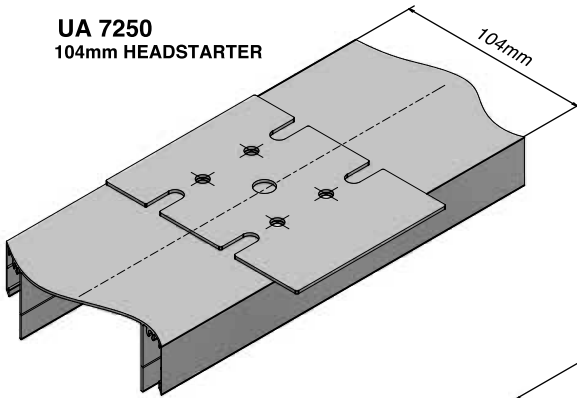
HEADSTARTER RESTRAINT BRACKET

- FOR MAXIMUM SPACING SPECIFICATIONS REFER PAGE 31

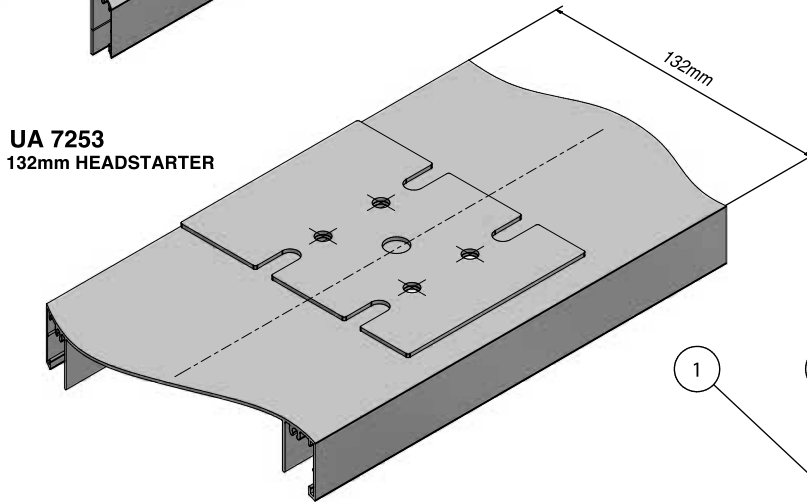
ITEM	DESCRIPTION	MATERIAL
1	RESTRAINT BRACKET	STRUCTURAL ALLOY
2	DUAL WASHER	STAINLESS STEEL
3	HEX DRIVE 14g x 5/8" T17 SCREW	STAINLESS STEEL
4	SPACER TOOL (setup only)	ALUMINIUM
5	M10 HEX NUT (setup only)	STAINLESS STEEL

Please read and follow these instructions carefully to ensure the correct mounting procedures.

SPACER TOOL FUNCTION

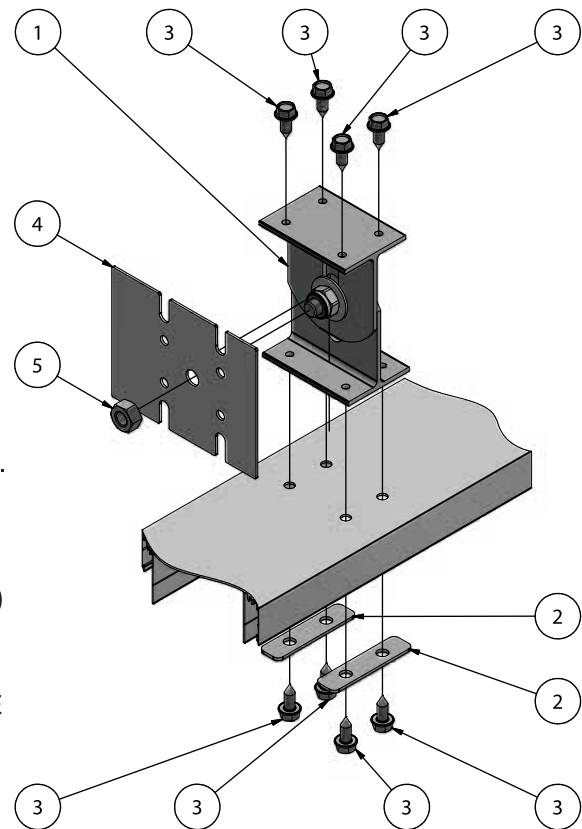


1. Align the appropriate edge of the SPACER TOOL provided, flush with the side of the DESIGNER HEADSTARTER. Ensure that the location of the holes are placed in the centre of the Headstarter.
2. Using the SPACER TOOL as a drill guide, drill 4 x 6.5mm holes through the top of the DESIGNER HEADSTARTER.



RESTRAINT BRACKET INSTALLATION

3. Attach the SPACER TOOL onto the end of the bolt and hold in place with the M10 HEX NUT, finger tighten.
4. Use 4 of the 14g x 5/8" HEX DRIVE T17 Self Tapping SCREWS. Screw from underneath through the Dual Washer and Designer Headstarter into the base of the RESTRAINT BRACKET which is placed centrally on top of the Headstarter. (Hex Head Driver Socket included with screws in Bracket's box)
5. Locate and attach the specified on site bracing to the top of the RESTRAINT BRACKET with 4 of the 14g x 5/8" HEX DRIVE T17 Self Tapping SCREWS provided.
6. While holding and maintaining the central position of the M10 x 25mm BOLT, remove the SPACER TOOL. Tighten M10 NYLOC NUT to 40 Nm.
7. For the installation of each RESTRAINT BRACKET repeat the process using the SPACER TOOL and M10 HEX NUT provided.



ITEM	QTY	ITEMS PER BOX
1	20	RESTRAINT BRACKET
2	40	DUAL WASHER
3	160	14g x 5/8" HEX DRIVE T17 SCREW
4	1	SPACER TOOL (Setup Only)
5	1	M10 HEX NUT (Setup Only)
	1	HEX NUT DRIVER SOCKET

HOLMES SOLUTIONS - ENGINEERING CONSULTANTS

DESIGNER PARTITIONING - HEADSTARTER RESTRAINT BRACKET

Bracket Spacings for Partitioning Wall Mass up to 40 kg/m²

GROUND FLOOR & BELOW - Importance Level 3.

Designer Partitioning Wall - Plasterboard lining, Supplementary glue.

Up to 3.0m Designer Partitioning Height = Maximum Spacing 2.40m

Up to 4.0m Designer Partitioning Height = Maximum Spacing 1.97m

Designer Partitioning Wall - Glazed.

Up to 3.0m Designer Partitioning Height = Maximum Spacing 1.64m

Up to 4.0m Designer Partitioning Height = Maximum Spacing 1.23m

GROUND FLOOR & BELOW - Importance Level 4.

Designer Partitioning Wall - Plasterboard lining, Supplementary glue.

Up to 3.0m Designer Partitioning Height = Maximum Spacing 1.89m

Up to 4.0m Designer Partitioning Height = Maximum Spacing 1.42m

Designer Partitioning Wall - Glazed.

Up to 3.0m Designer Partitioning Height = Maximum Spacing 1.18m

Up to 4.0m Designer Partitioning Height = Maximum Spacing 0.89m

ABOVE GROUND FLOOR - All Importance Levels.

Designer Partitioning Wall - Plasterboard lining, Supplementary glue.

Up to 3.0m Designer Partitioning Height = Maximum Spacing 1.51m

Up to 4.0m Designer Partitioning Height = Maximum Spacing 1.13m

Designer Partitioning Wall - Glazed.

Up to 3.0m Designer Partitioning Height = Maximum Spacing 0.94m

Up to 4.0m Designer Partitioning Height = Maximum Spacing 0.71m

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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

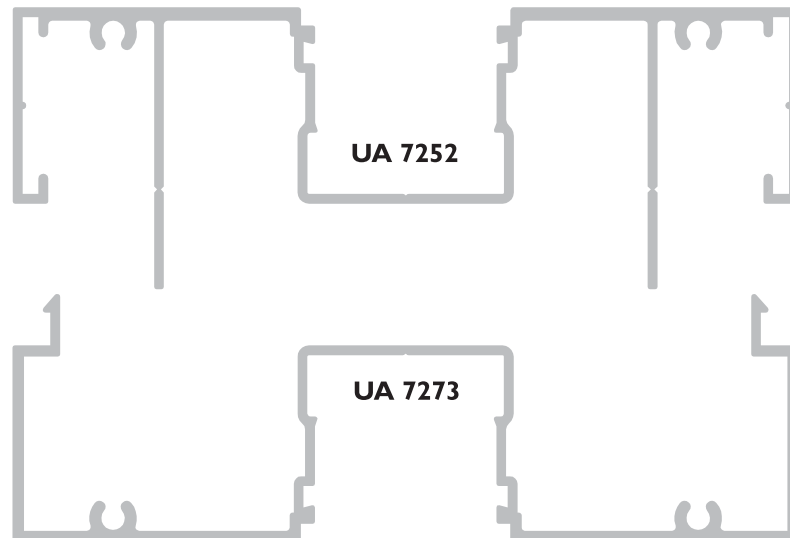
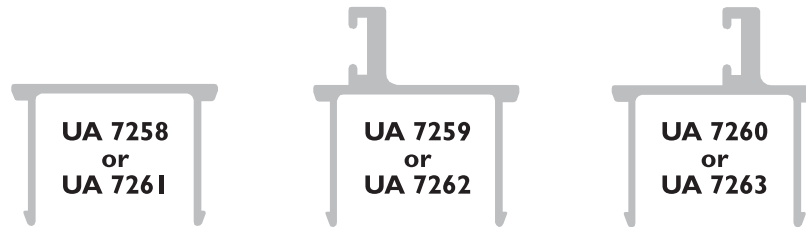
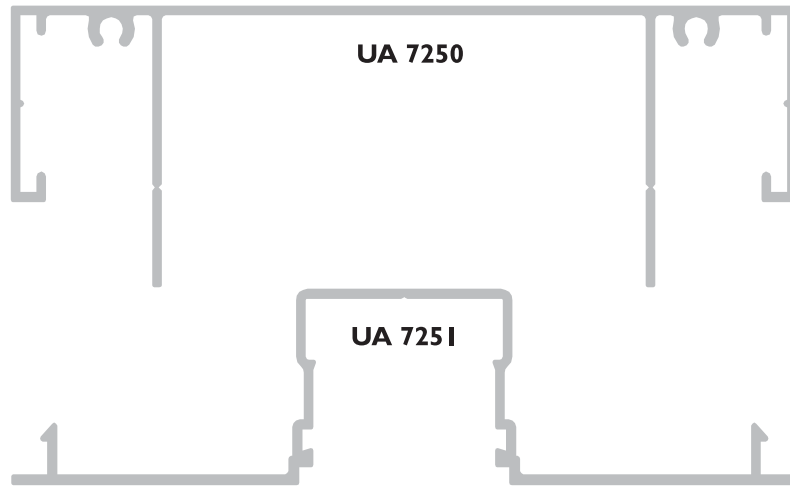
40mm DOOR STOP
If Anodised
kg/m 0.309 P 156
OAD 29.09 x 27.6

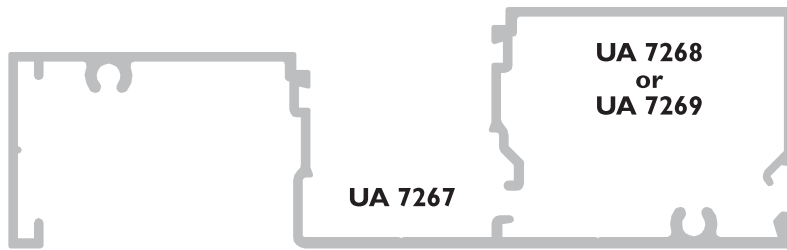
UA 7263

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

UA 7273

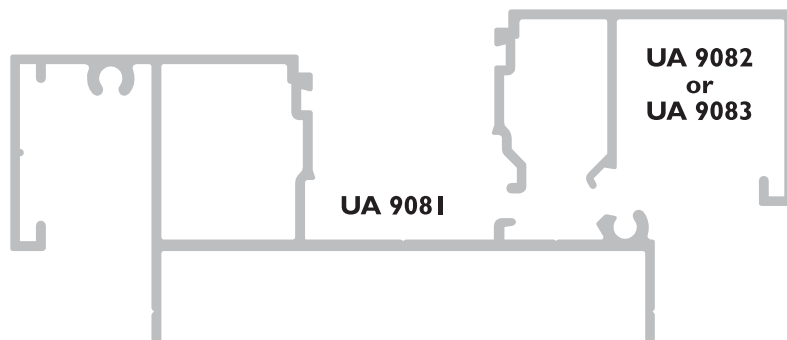
RECESSED GLAZING
MULLION CAP
kg/m 0.971 P 491
OAD 104 x 32.8





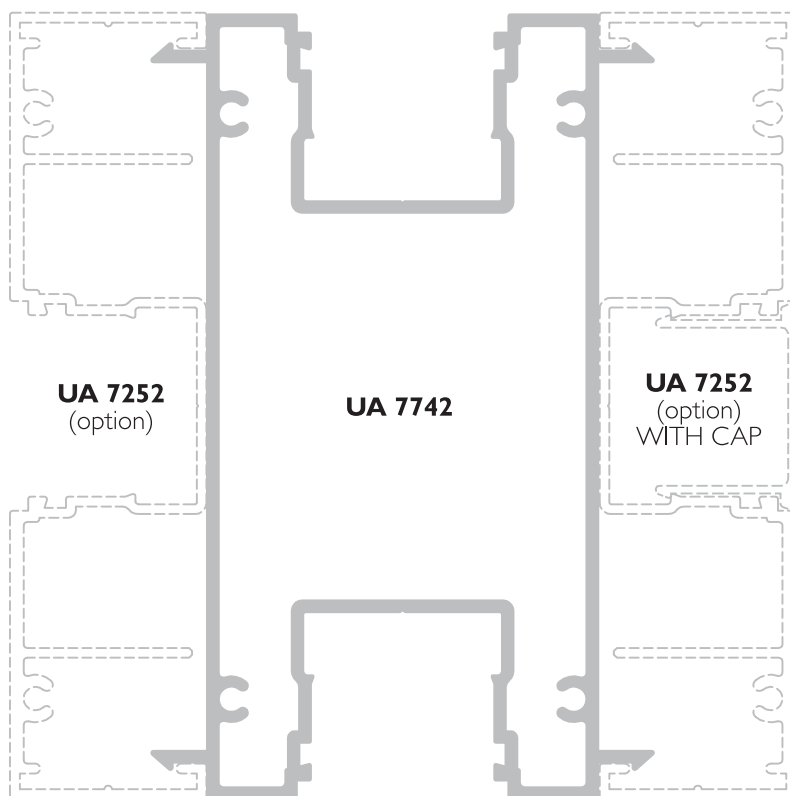
UA 1934
13mm GIB LINING CAP
kg/m 0.353 P 176
OAD 35.8 x 20

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

UA 9081
HALF HEIGHT WALL
GLAZING BASE
For 63.5mm Steel Stud
kg/m 0.877 P 376
OAD 85.30 x 38

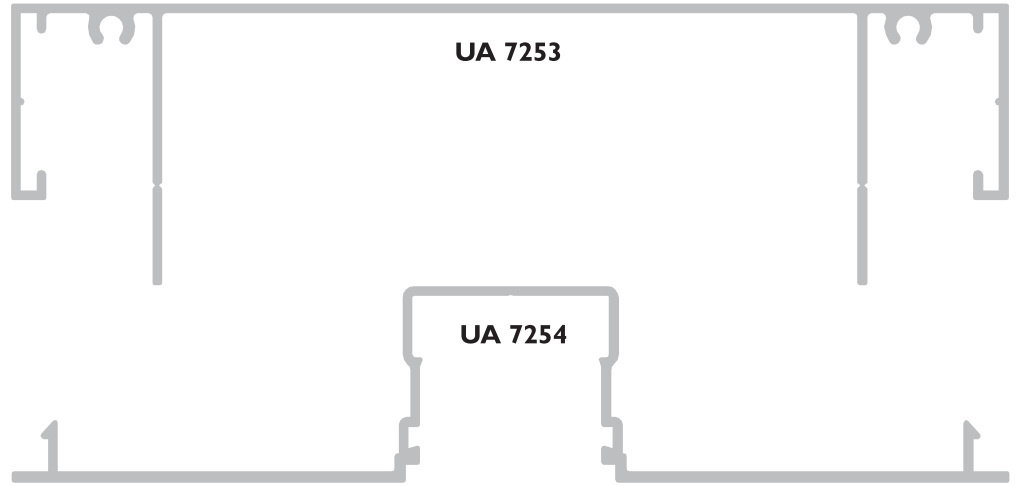
UA 9082
GLAZING BEAD
If Powdercoated
kg/m 0.432 P 244
OAD 40 x 26

UA 9083
GLAZING BEAD
If Anodised
kg/m 0.435 P 246
OAD 40 x 26

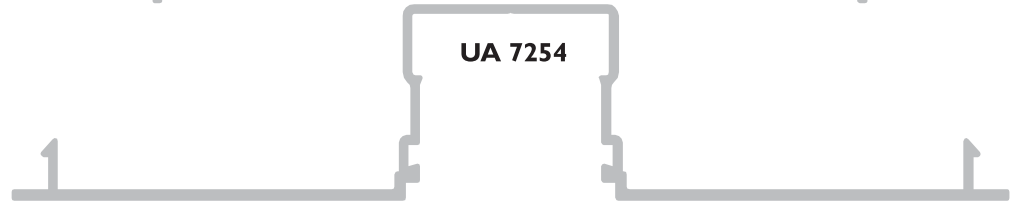


UA 7253

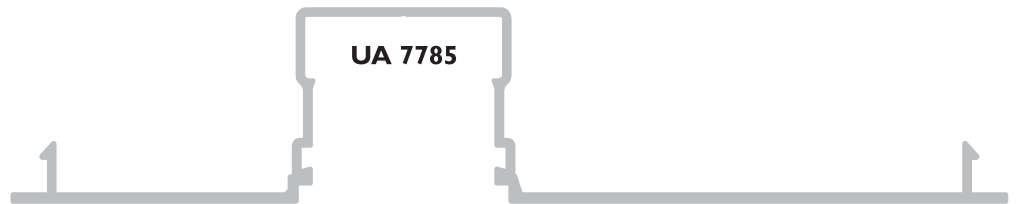
13mm GIB
HEAD STARTER
For 92mm Steel Stud
kg/m 1.030 P 571
OAD 132 x 37.3

**UA 7254**

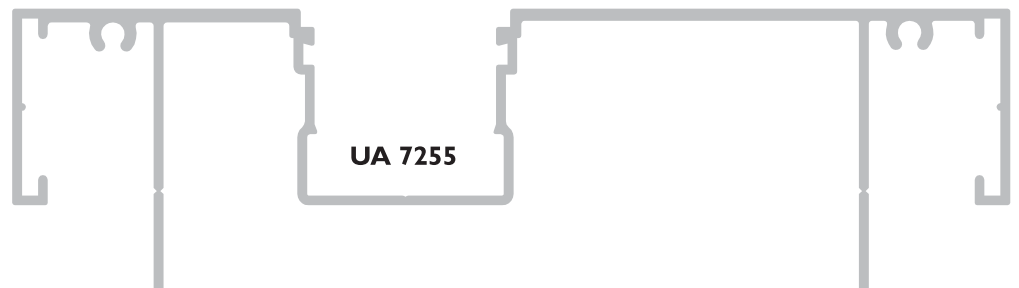
RECESSED STARTER CAP
kg/m 0.774 P 403
OAD 132 x 26

**UA 7255**

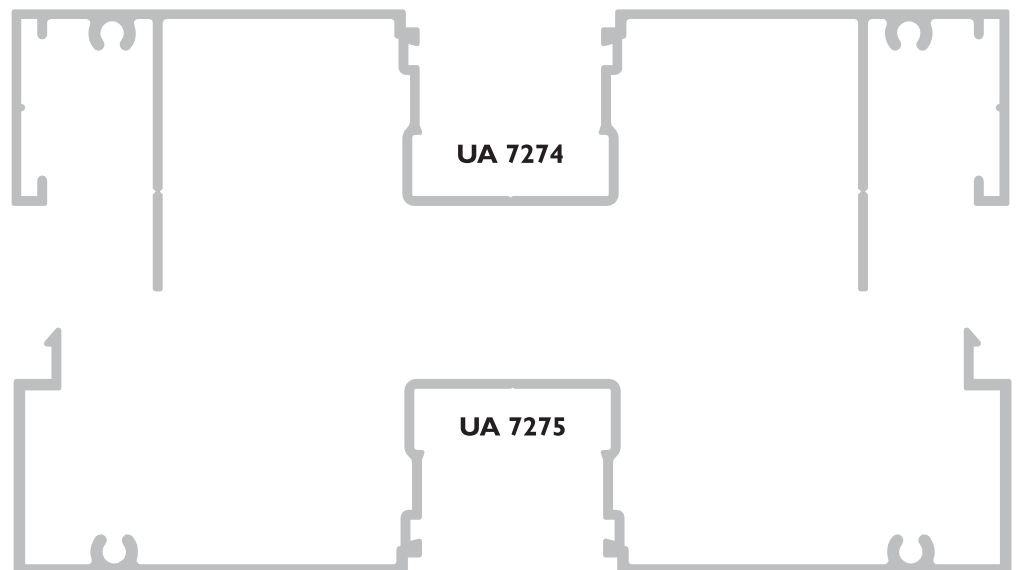
13mm GIB RECESSED
DOOR STARTER
For 92mm Steel Stud
kg/m 1.314 P 675
OAD 132 x 37.3

**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 1.085 P 547
OAD 132 x 32.8

**UA 7785**

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

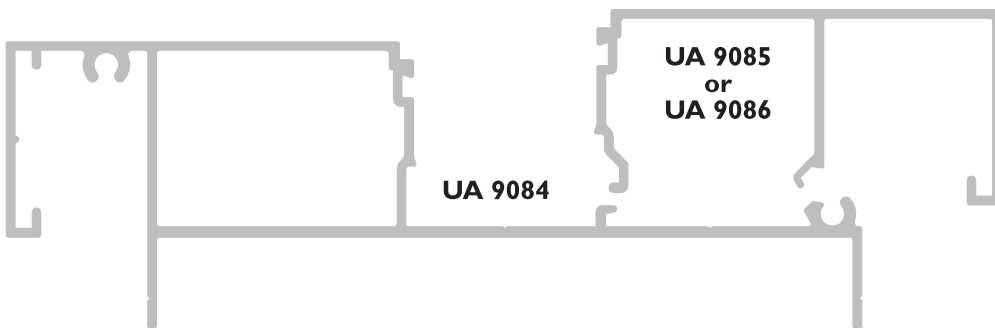




UA 7268
GLAZING BEAD
If Powdercoated
kg/m 0.324 P 184
OAD 40 x 24.35

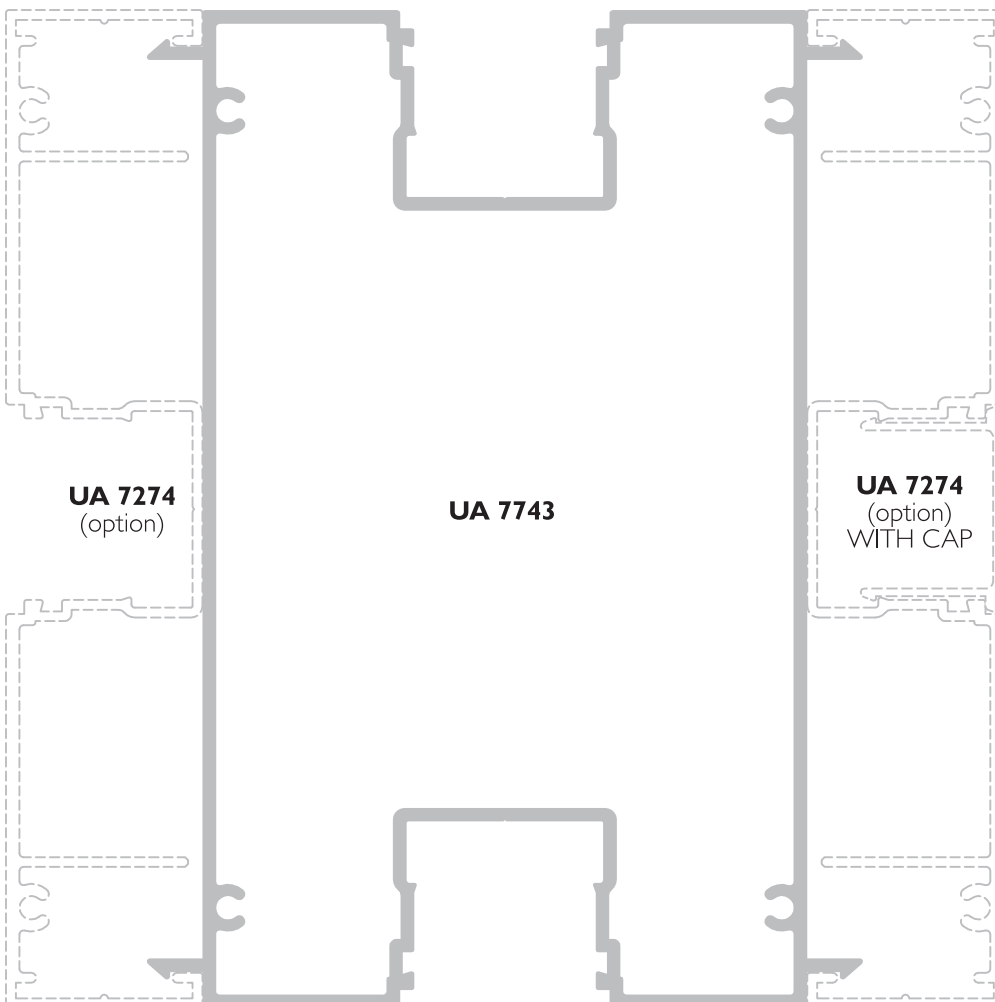


UA 7269
GLAZING BEAD
If Anodised
kg/m 0.327 P 186
OAD 40 x 24.35



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

UA 7840
OFFSET GLAZING BASE
kg/m 0.858 P 428
OAD 132 x 26

UA 9084
HALF HEIGHT WALL
GLAZING BASE
For 92mm Steel Stud
kg/m 1.040 P 432
OAD 113.30 x 38

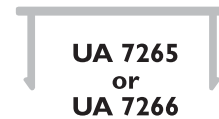
UA 9085
GLAZING BEAD
If Powdercoated
kg/m 0.481 P 272
OAD 54 x 26

UA 9086
GLAZING BEAD
If Anodised
kg/m 0.484 P 274
OAD 54 x 26

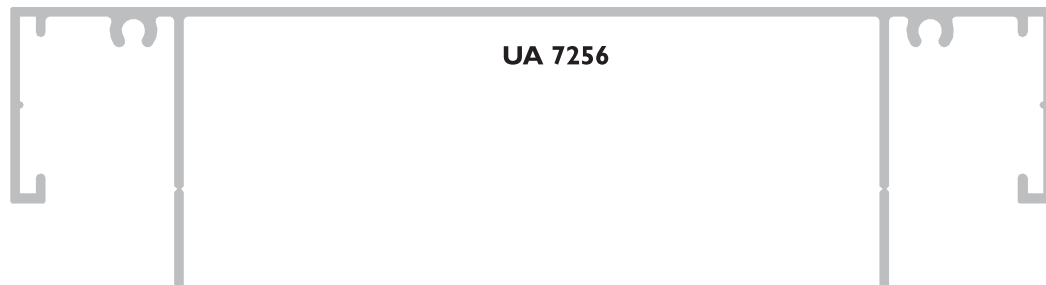


UA 1609

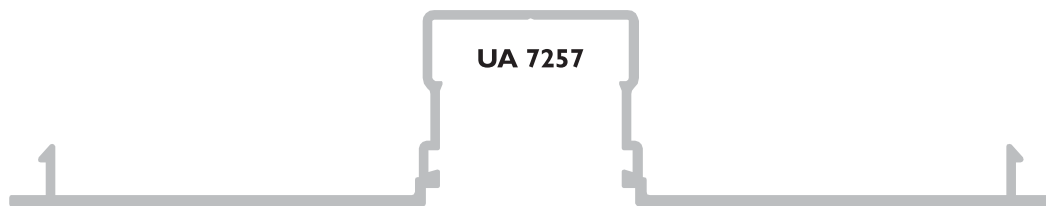
LOCATION CHANNEL fits 7277
kg/m 0.149 P 85
OAD 14.5 x 14.5

**UA 7264****UA 7265
or
UA 7266****UA 7256**

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

**UA 7256****UA 7257**

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

**UA 7257****UA 7264**

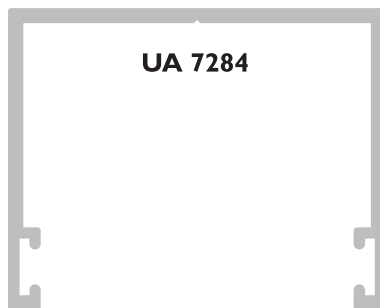
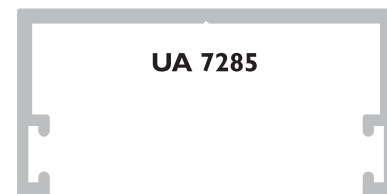
ADJUSTABLE
DOOR STOP
kg/m 0.561 P 132
OAD 35 x 15

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

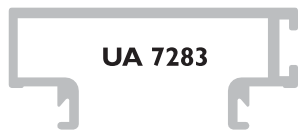
**UA 7284****UA 7285****UA 7284**

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 1609



UA 7283



UA 7282



UA 7281



UA 7276

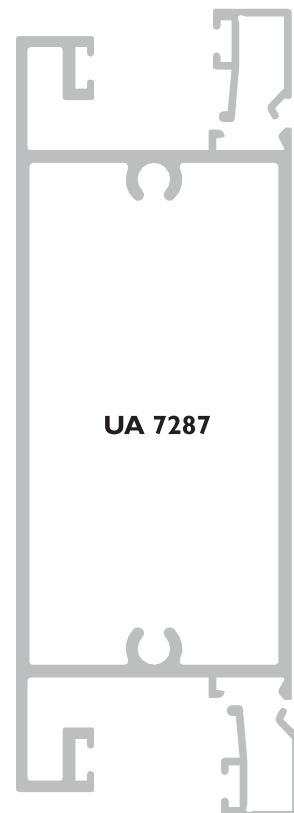


UA 7280

UA 7278
or
UA 7279



UA 7277



UA 7287



UA 7286

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

UA 7277
SLIDING DOOR BOTTOM RAIL
kg/m 1.571 P 437
OAD 100 x 36.5
Takes Adj Door Roller
Code: H915XSAS

UA 7278
GLAZING BEAD
If Powdercoated
kg/m 0.126 P 91
OAD 14.95 x 10.45

UA 7279
GLAZING BEAD
If Anodised
kg/m 0.127 P 92
OAD 14.95 x 10.45

UA 7280
DOOR SIDE RAIL
kg/m 1.656 P 385
OAD 100 x 38.3

UA 7281
DOOR CAP
kg/m 0.138 P 78
OAD 25.5 x 5.5

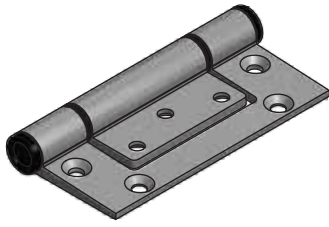
UA 7282
DOOR WOOLPILE CAP
kg/m 0.151 P 94
OAD 25.5 x 5.5

UA 7283
DOOR SIDE WOOLPILE CAP
kg/m 0.337 P 182
OAD 38.3 x 16.1

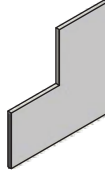
UA 7286
BOTTOM DOOR TRACK
kg/m 0.488 P 123
OAD 30.5 x 12

UA 7287
DOOR CENTRE MULLION
kg/m 1.407 P 379
OAD 100 x 36.5

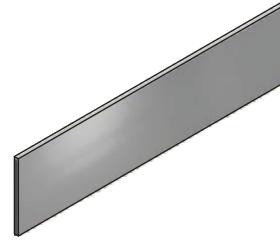




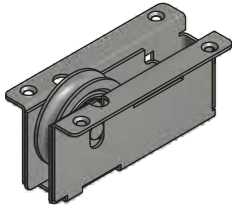
110mm TAPERED FLUSH HINGE
Anodised Silver
 Code: 20971
Powdercoated Matt Black
 Code: 20968



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



SPLICE PLATE
 Butt Joint
 Code: PARTSPLICE23
PKT 50



ADJ BOTTOM DOOR ROLLER
 Code: H915XSAS



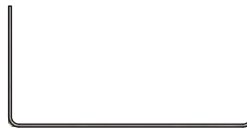
STAKING CORNER
 Mitre Corner, Horizontal
 Code: PARTSTAK23
PKT 50



HEADSTARTER RESTRAINT BRACKET
 Code: PARTSTARTERBRKT
BOX 20



STEEL STUD
 STUD 63.5/0.55 x 2400mm
 STUD 63.5/0.55 x 2700mm
 STUD 63.5/0.55 x 3000mm
 STUD 63.5/0.55 x 3300mm
 STUD 63.5/0.75 x 3600mm



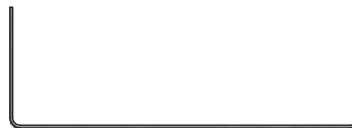
STEEL TRACK
 TRACK 63.5/0.55 x 3000mm



4mm GLAZING BACKING WEDGE
 Code: PART252
 Black



STEEL STUD
 STUD 92/0.55 x 3000mm
 STUD 92/0.55 x 3600mm
 STUD 92/0.55 x 4200mm



STEEL TRACK
 TRACK 92/0.55 x 3000mm



6mm GLAZING BACKING WEDGE
 Code: PART253
 Black



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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Map key:
 ● SALES & DISTRIBUTION
 + MANUFACTURING
 * EXTRUSION PLANT

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