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solutions.



Aluminium partition suite



A division of



Function.

Studform is committed and driven to manufacture usable products.

Quality.

Workmanship is driven by quality.

Distinctive.

Studform aluminium partition suites are made for all environments, and can be adapted to suit your project.

Service.

Our customer service is our priority. Through design, build and commission, our team is trained to help you every step of the way.

Reliable.

We ensure a smooth rollout at the design, specification and contractor stage.

Realistic.

Our lead-times are realistic, and promises are kept.

Easy.

Installation of aluminium partition suites is hassle-free.

Preferred.

Studform – your preferred aluminium partition suite supplier.

A good choice for the environment.

Good Environmental Choice Australia Limited (GECA) manages a Type 1 Ecolabel program in accordance to ISO 14024 "Environmental Labels and Declarations" and is the owner of the Environmental Choice Australia Ecolabel.

A licence for the use of the Ecolabel is granted to a product where it has been verified by an independent conformity assessment body that the product meets the environmental performance criteria of a GECA standard.

Licence Number:

STU-2011

Certification Date:

10th May 2011

Issued to:

Studform Pty Ltd

Certified Products:

- Korporate series aluminium partitioning systems
- Kwikloc Aluminium ceiling systems
- Access panels (including fire rated access panels)
- Imaj washroom cubicles
- Commercial doors
- Fire rated doors

GECA Standard:

GECA 28-2010 Furniture and Fittings (GBCA recognised Level A)

Address of manufacturing site:

4 Scott Court
Mount Gambier SA 5290

Conformity Assessment Body:

Environmental Assurance Pty Ltd

Re-certification date:

10th May 2014

Certifier:

Judy Hollingworth
Chief Executive Officer
Good Environmental Choice
Australia Limited





Introduction

The Korporate Series partition suite has been designed to enhance the image and environment of today's office interior, and offers the architect, builder and contractor a complete system to accommodate every aspect in design through to construction of internal office partitions.

This unique system offers the options of Centreline glazing, Frontline glazing and Double glazing with systems available for 64 mm, 76 mm and 92 mm steel stud clad with 13mm plasterboard with unparalleled design opportunities maximising installation productivity.

The following features highlight some of the advantages of using the Korporate Series partition system:

- Consistent slimline profile of only 36mm.
- Accommodates glass up to 12.38mm.
- Available ex-stock in 5500mm lengths or, for special projects specific lengths can be supplied minimising wastage.
- Recessed glazing wedges reducing the visibility of the wedge.
- Corner stake provision.
- Fabrication service available if required.
- Acoustic walls of up to STC48 can be achieved.
- Drilling jigs available to improve productivity.
- Radiused edges for enhanced appearance and contractor installation comfort.
- Shot blast aluminium for ultimate anodising finishes

In addition to supplying the aluminium sections, the entire materials required to complete a project are available, including steel studs, plasterboard, insulation, doors, hardware etc.

This system is constantly being improved and new sections designed so if you have any particular design problems, contact your local distributor.

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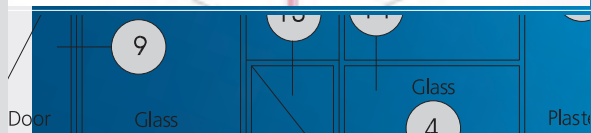
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Series 1000

Centre Line Glazing



The Series 1000 partition system forms the basis of the Korporate range of systems, combining a cost efficient, aesthetic and practical solution to the needs of today's office environment into one unique system.

The partition system has been designed to be used in conjunction with 64mm steel stud and 2 layers of 13mm plasterboard. Variations from this can be accommodated where increased acoustic performance of a partition is required, by using a 51mm steel stud offset and two layers of 13mm plasterboard to one side and one layer to the other. With the relatively low cost of steel stud and plasterboard, the overall partition cost is extremely economical.

The suite is characterised by a consistent profile of only 36mm and conforms to AS1288-2006 glazing code.

The design of the sections eliminates unsightly vertical join lines to the face of extrusions, thereby producing an aesthetically pleasing result.

The system offers a large range of extrusions to accommodate for almost every conceivable situation, but it is possible to only use four to five different sections for a basic installation if required.

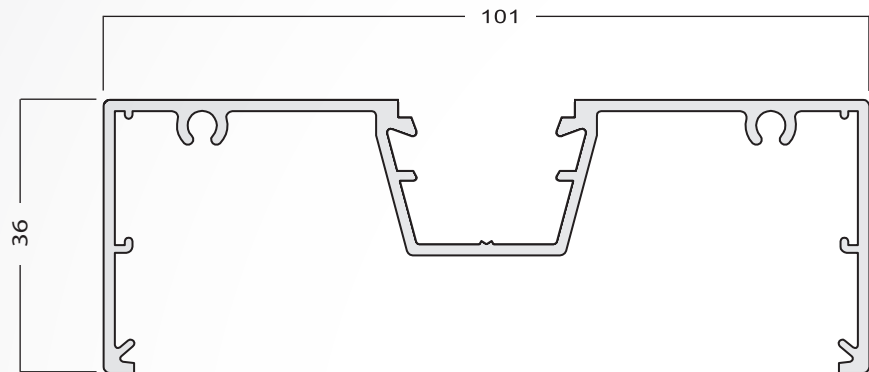
The system will accommodate 35mm, 40mm, 42mm or 55mm doors in timber or fully glazed aluminium, which can be supplied if required.

There are a number of design features built into the extrusions unique to this system to increase productivity on site when installing this product, eg. corner stake provision, screw locating grooves, alignment fins to automatically centre studwork and more.



..Extrusions to accommodate for almost every conceivable situation..

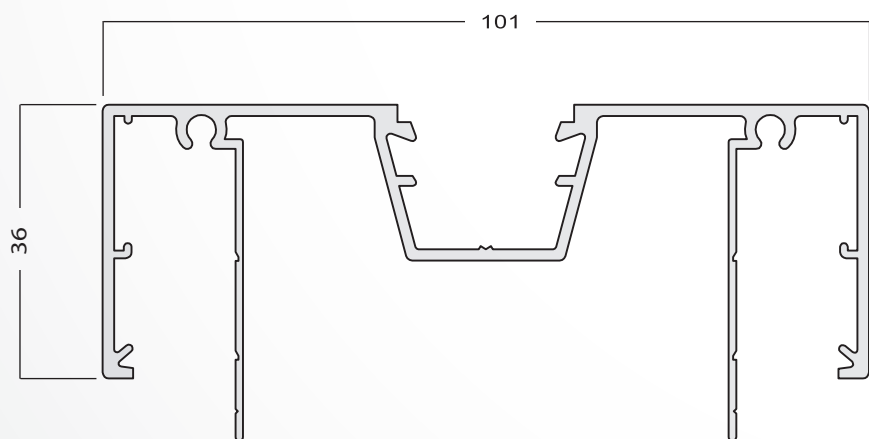
Main Frame #1000



This section, along with #1001 Main/Door Frame, are the primary sections of the Series 1000 system. The design of this section allows #1004 Glazing Adaptor to be clipped into it forming a mullion capable of being glazed on both sides with a slimline appearance of only 36mm.

The common use is for the construction of glazed partitions with vertical mullions.

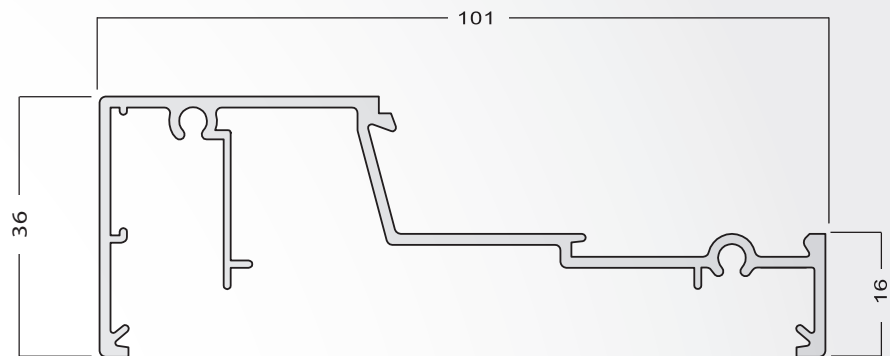
Main/Door Frame #1001



Similar in features to #1000 Main Frame, but with the fins this facilitates the installation of the section where door frames or windows are required to be installed within a plasterboard drywall partition, constructed from 64mm steel stud and 13mm plasterboard.

Tear points on the fins are placed in strategic locations to expedite the installation of sections #1004, #2004 and #2004D within this section.

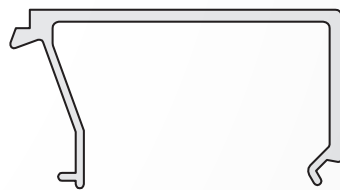
Sill Transom #1002



This unique sill section has been designed to facilitate glazing individual glass panels with ease in conformity to Australian Standards, specifically regarding edge cover of glass. It will accommodate #1004 Glazing Adaptor forming a transom section, whilst maintaining the consistent slimline appearance of only 36mm. This has particular benefits when constructing horizontal transoms in glass walls or fan lights above doorways.

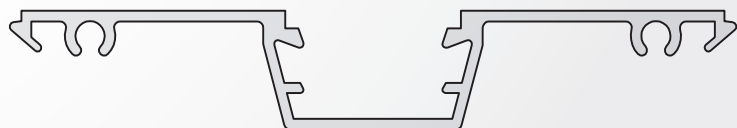
The locating fins for the 64mm track increases productivity when installing this section on half height plasterboard partitions as it automatically centres the section over the partition, allowing for the 13mm plasterboard to be installed with ease once the frames are in place.

Sill Bead #1003



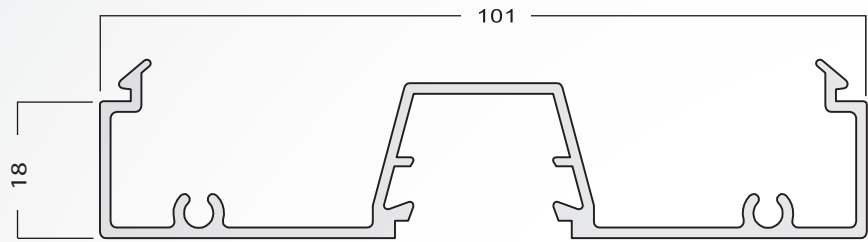
The Sill Bead clips into the #1002, #3002 and #7002 Sill Transom to create integral glazing system sections.

Glazing Adaptor #1004



This section has been designed to clip into #1000, #1001, #1002, #1010, #1011, #2000, #2002, #2000D, #2002D and #1009, to enhance the potential installation applications of the other sections. It will also accept the Door Stops #1013, #1014, #1015, #1016, #1017 and Pocket Filler #1012, and glass from 6mm to 12.38 mm.

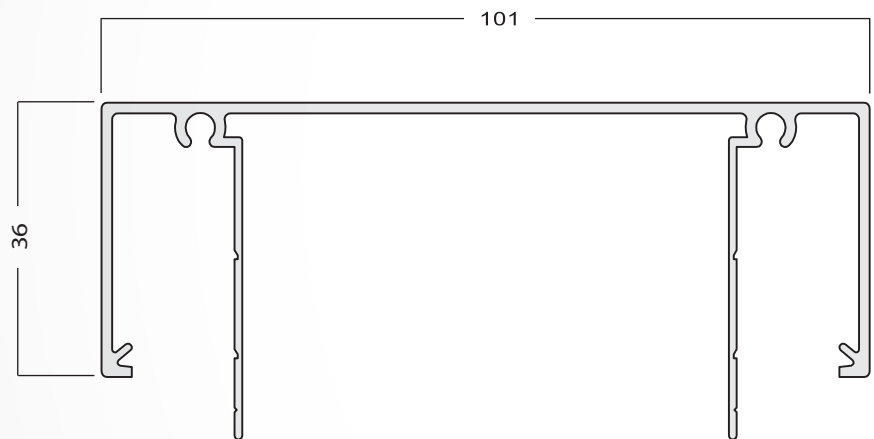
Ceiling Frame Adaptor #1005



This section was designed to clip onto the Ceiling Channels #1010 and #1011 to form the consistent 36mm profile. This is commonly used where the ceiling channel is continuous over all the various types of partitions, ie. plasterboard and glass. If a full height glazed partition or door frame is constructed using this section as the top horizontal member, then the frame will simply snap onto the ceiling channel and it is installed!

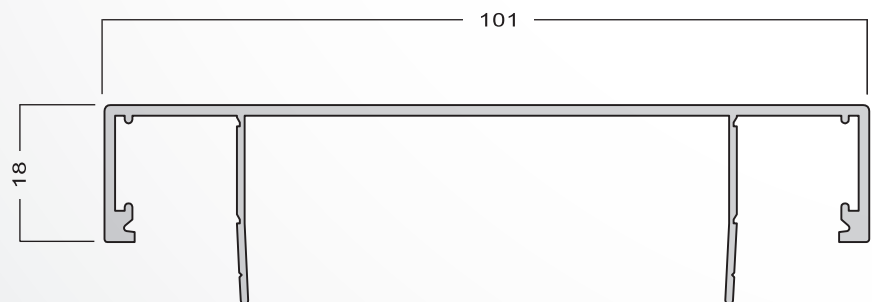
It will also accept the Door Stops #1013, #1014, #1015, #1016, #1017 and Pocket Filler #1012.

Plain/Door Frame #1009



This section was designed to be utilised where a plain frame is required, eg. sliding door frames, end cap for partitions or door frames where particular acoustic seals are specified etc. It can also be used as a ceiling channel similar to the #1010 and #1011 as it will accept #1004, #2004 and #2004D if the fins are snapped off.

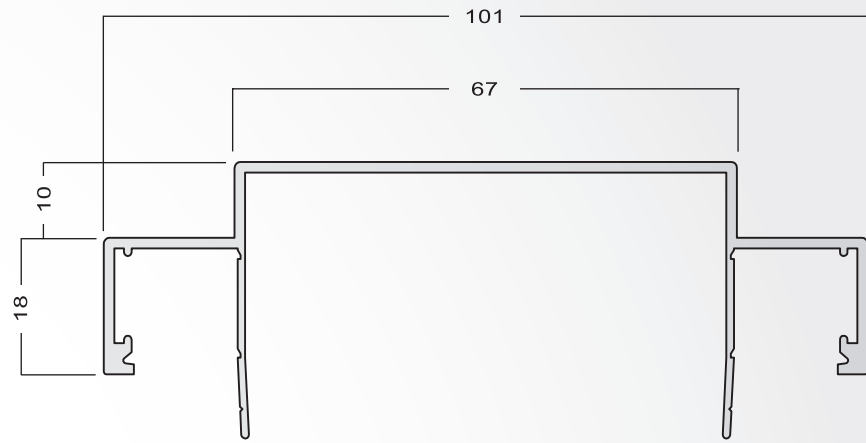
Ceiling Channel #1010 Standard



As for Ceiling Channel Section #1011 it provides for a consistent finish and head track for plasterboard partitions. They both have been designed to accept a 64mm steel stud with one layer of 13mm plasterboard each side. If increased acoustic qualities are required it is possible to install a 51mm track offset to one side of the channel providing the opportunity to install 2 layers of 13mm plasterboard to one side and one layer to the other side without increasing the overall width of the partition.

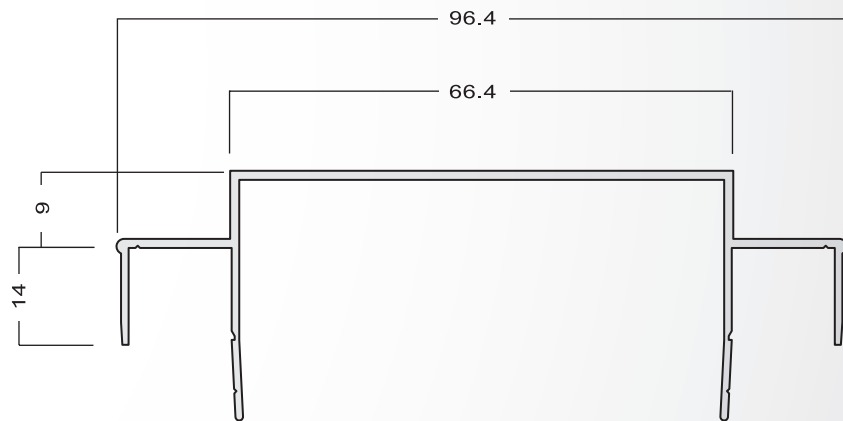
Along with Ceiling Channel #1011 these sections will accept #1004, #1005, #2004, #2005, #2004D and #2005D.

Ceiling Channel #1011 Shadowline

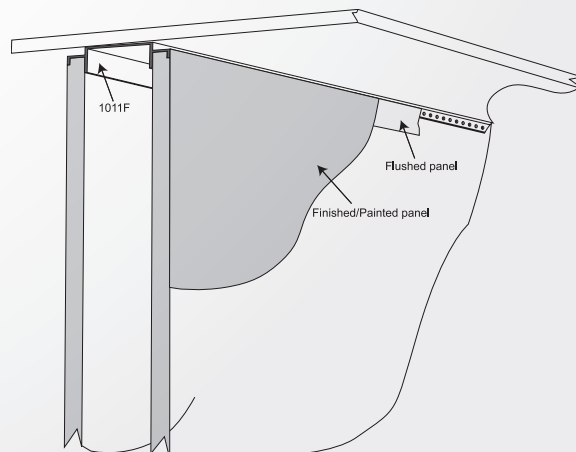


The ceiling channel #1011 offers the designer a choice of creating a shadowline if required. As for Ceiling Channel #1010 it provides for a consistent finish and head track for plasterboard partitions and offers the installer the flexibility of location of any full height glazing or doorways when used in conjunction with Ceiling Frame Adaptor #1005.

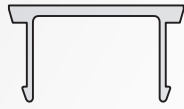
Ceiling Channel #1011F Flushed/Shadowline



The Ceiling Channel #1011F offers the designer the ability to create a consistent flushed shadowline finish to the top of plasterboard partitions. It comes completely perforated on both sides for adequate keying of plasterboard compounds. This section negates the need for stapled on trims and alleviates resultant tradesman inconsistencies. It has tear off point provision to accommodate the installation of sections 1000, 2000 and 2000D for full height glazing or door frames.

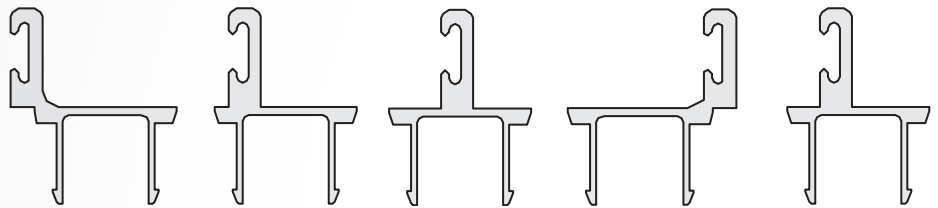


Pocket Filler #1012



The Pocket Filler will snap onto all glazing pockets of the system in the event of the pocket not being required.

Door Stops



35mm #1013

40mm #1015

45mm #1014

 Acoustic
 45mm #1016
 (or 55mm standard)

42mm #1017

The above five Door Stops provide the installer with the option of either 35mm, 40mm, 42mm 45mm or 55mm doors. These sections will snap into all the glazing pockets and will accept either the #1020 Schlegel wool pile or #1021 PVC bulb seal.

The acoustic #1016 doorstop is also suited to use in conjunction with Studform Door Seal No. SF347, providing a door system, along with Studform Acoulite Plus Doors, capable of achieving acoustic ratings up to approximately RW/38. (Acoustic Designers' report available.)

This section maintains a uniform and attractive partition system of high acoustic qualities, yet eliminating any unsightly "plant on" door stops/seals.

Door Seals



#1021



#SF347



#1020

The above three door seals are available as inserts for Door Stops #1013, #1014, #1015, #1016 and #1017.

Seal #1020 is a Schlegel wool pile suitable for light acoustic requirements and acts as an attractive buffer for door stops.

Seal #1021 is a rubber extrusion seal suitable for general use with good acoustic properties.

Seal #SF347 is provided for Door Stop #1016 to achieve high acoustic requirements and maintain a corporate image.

Series 2000

Front Line Glazing



To create a distinguished office environment it is advised to utilize the 2000 Series system. This system gives the designer the opportunity to create an invigorating atmosphere for the clients' office surroundings.

The feature of this system offers the frontline effect to glazed panels, yet maintaining the design advantages of the 1000 Series system.

Some of the benefits of using a Frontline Glazing System are:

- Improved aesthetics as only a narrow lip of aluminium to front side is visible.
- Additional space for blinds etc.

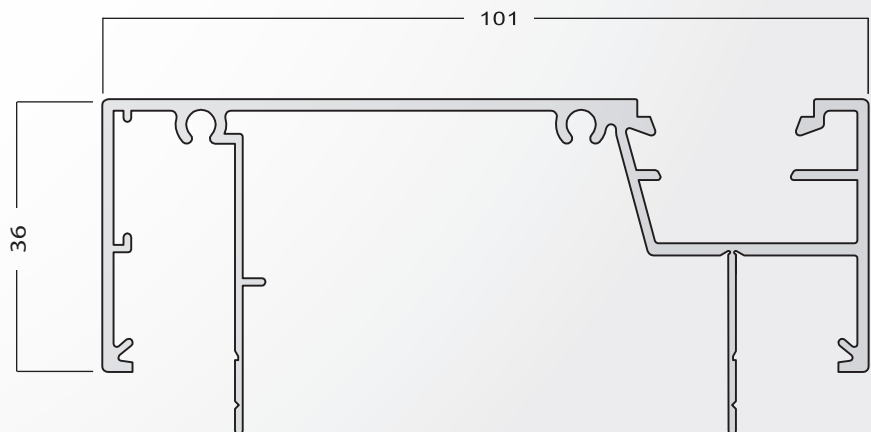
- Increases the nett lettable area of an office as the measurements are taken to the glass if partition is full height.
- A combination of Frontline and Double glazed panels can be constructed and still maintain a consistent detail to one side.

The components of this system are interchangeable with either the 1000 or 2000D Series providing unparalleled scope to construct an outstanding partition layout.



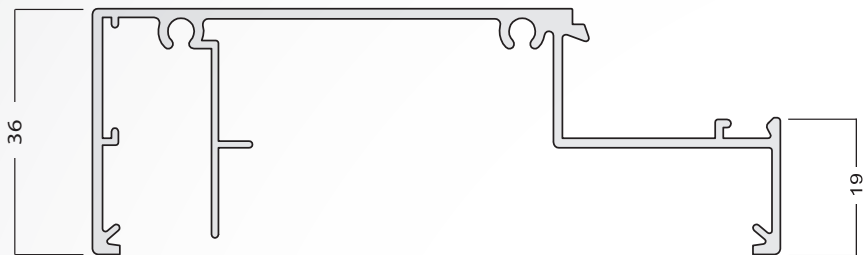
This system gives the designer the opportunity to create an invigorating atmosphere..

Main Frame #2000



This is the primary section of the exclusive 2000 Series frontline glazing system. It will accept #2004 snapped into the back of the section forming a mullion capable of being glazed on both sides with a slimline profile of only 36mm. It will also accept #1004 if required.

Sill Transom #2002



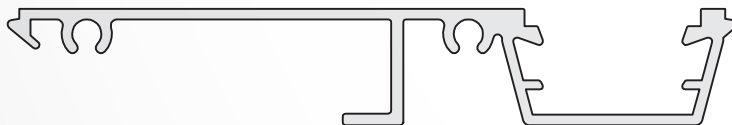
This section, similar in features to #1002, facilitates the glazing of individual glass panels in conformity to Australian Standards. It will accept #2003, #1004 and #2004 to create a transom section whilst maintaining the consistent slimline appearance of only 36mm. A locating pin is built into the section which automatically centres a 64mm track when constructing half height plasterboard walls and allowing 13mm plasterboard to be installed within the width of the section.

Sill Bead #2003



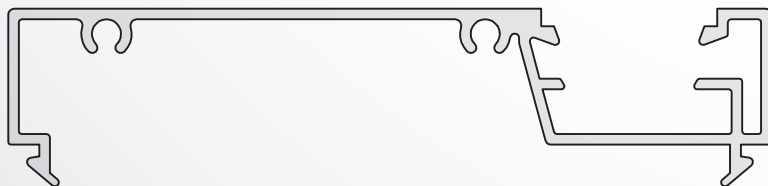
This Sill Bead clips into #2002 and #2002D to create integral glazing sections.

Glazing Adaptor #2004



This section has been designed to snap into #1001, #1009, #1010, #1011, #2000, #2002, #2000D and #2002D giving the designer unlimited potential in creating a mixture of centreline, frontline and even a double glazed system. It will also accept #1012 Pocket Filler if required.

Ceiling Frame Adaptor #2005



This section has features similar to #1005 where full height glazed frames can be installed extremely quickly into either #1010 or #1011 Ceiling Channels. It will accept #1012 Pocket Filler if required.

Series 2000D Double Glazing



This system has been developed due to the demand for high levels of acoustic isolation in certain applications, eg. Managers office, Conference rooms, Board rooms, Court rooms, Classrooms etc.

Until now, to accomplish this in internal partitions, it has been by way of using 'Plant On' beads etc. creating a very bulky look and often a different detail to the other partitions, as well as providing the possibility of air gaps which greatly reduces the effectiveness of any system.

With these factors, it led to the design of the #2000D series partition system, offering the designer the ability to achieve a rating of up to RW/STC 46 and still maintain a consistent partition detail.

As you will note from the installation details, it is possible to have a selection of systems, eg. if along a passage the Frontline system was used on the majority of offices (glass to passage) and the double glazed only on one office, at a glance it would look the same as the glass is in the same position on the passage side.



..Especially since this innovative system is all about reducing noise

Without making a lot of noise about this system - especially since this innovative system is all about reducing noise - please note the tables showing the results achievable using the #2000D series compared with the single glazed partitions.

Table 1: RW/STC Ratings for 1000 & 2000 Series Single Glazed Partitions.

Glass Size	RW/STC Rating	Source
6mm	33	1
8mm	35	-
10mm	36	1
12mm	37	1

Table 2: RW/STC Ratings for 2000D Series Double Glazed Partitions.

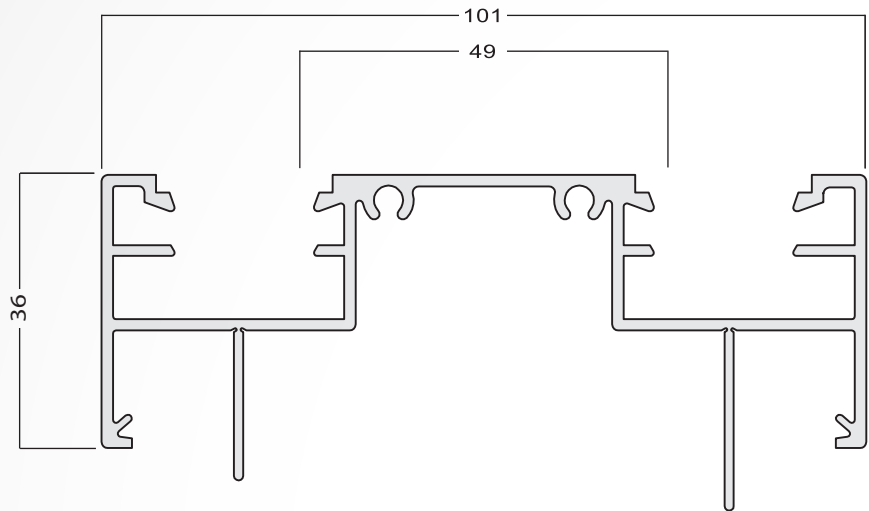
Glass Size	Spacing (mm)	RW/STC Rating	Source
6+6	62	42	1,2
6+8	61	43	-
6+10	60	44	1,2
6+12	59	44	1
8+8	60	43	-
8+10	59	44	-
8+12	58	45	-
10+10	58	44	1,2
10+12	57	46	1,2
12+12	56	44	-

1 The above readings relate to the use of laminated glazing panels

2 These tables have been compiled by Bassett Acoustics
- opinion number AA0279/DC/J01

Note: The STC ratings are not to be applied in a general sense to double glazing as the spacing of the glass and type of installation has an important factor in the performance of the system.

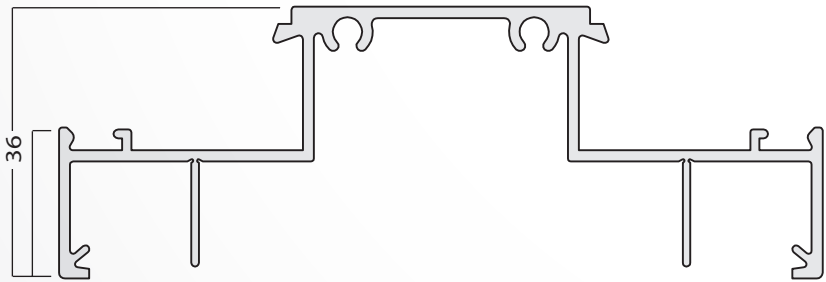
Main Frame #2000D



Similar in features to #2000, this is the primary section of our unrivalled Double Glazed Partition System, incorporating aesthetics and acoustics into one unique system.

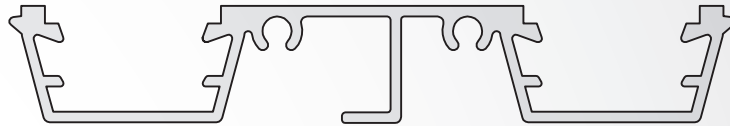
This section will accept #2004D, #2004 and #1004 providing unlimited opportunities for the designer due to the interchangeability between the three systems.

Sill/Transom #2002D



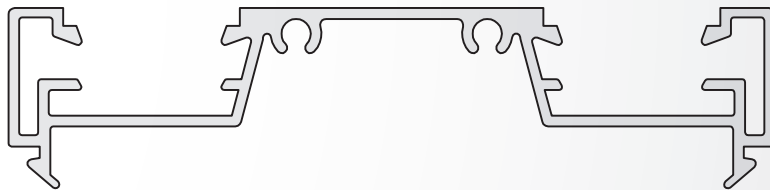
Similar in features to #2002, this unique section facilitates the glazing of individual double glazed panels in conformity to AS1288-2006. This section will also accept #2003, #2004D, #2004 and #1004.

Glazing Adaptor #2004D



This section has been designed to snap into #2000D, #2000, #2002D, #1001, #1009, #1010 and #1011 providing unparalleled design opportunities where double glazing is required.

Ceiling Frame Adaptor #2005D



Similar to #1005 and #2005, this section allows for full height double glazed panels to be installed extremely quickly into either #1010 or #1011 Ceiling Channels.



Series 3000

Suits 92 mm Studwork



The Series 3000 partition suite was developed to meet a need in the market place to maintain a high profile corporate image at doorways and openings in highly rated acoustic walling.

It also provides the architect and engineer the opportunity to completely contain column supports for overhead structures within a partition system, with an available cavity of 92mm, and still maintain a quality profile throughout.

Typical applications are:

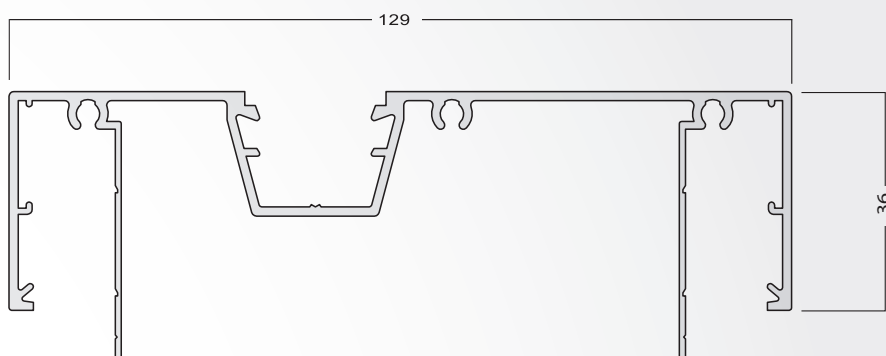
- Highly rated acoustic walling including:
 - 92 stud and 2 layers of 13mm plasterboard
 - 76 stud and 3 layers of 13mm plasterboard
 - 64 stud and 4 layers of 13mm plasterboard
- Walling containing structural columns e.g. mezzanine supports (90 x 90 or 120 x 90)

With the versatility of this system it allows the architect/designer a unique range of options offering structural integrity and partitioning of high acoustic performance.

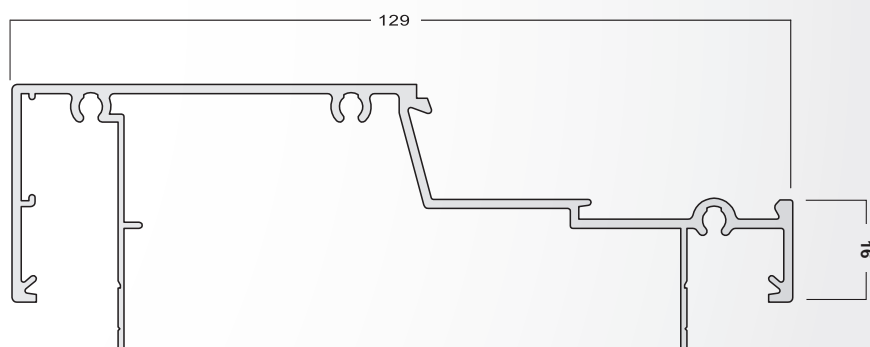


Further series 3000 sections are available on request to accommodate multiple plasterboard layers on 92mm studwork ideal for high acoustic applications.

..Provides the architect and engineer the opportunity to completely contain column supports for overhead structures

Main/Door Frame #3001

This section being the primary section of the 3000 Series system has been designed to be used in conjunction with 92mm steel stud and 13mm plasterboard and will accept the #3004 section providing a mullion capable of being glazed on both sides with a slimline appearance of only 36mm.

Sill Transom #3002

This unique sill section will accept the #3004 Glazing Adaptor forming a transom section whilst maintaining the constant slimline appearance of only 36mm.

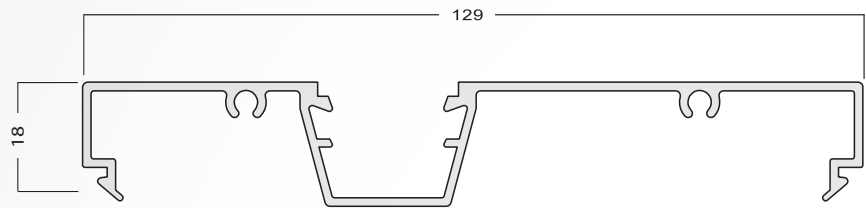
The extended fins on the sill facilitate the ease of installation of the section into a steel stud wall.

Sill Bead #1003 clips into this sill transom to form an integral glazing section.

Glazing Adaptor #3004

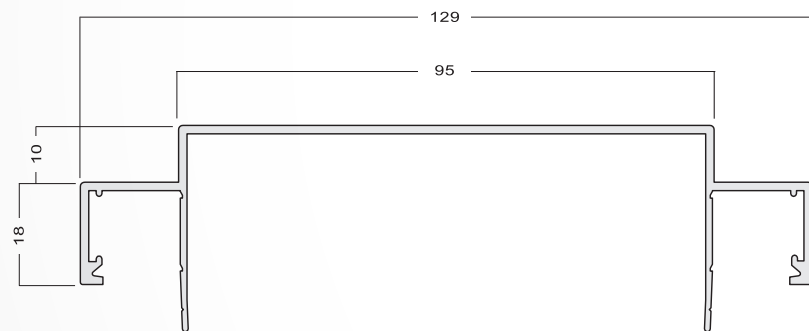
This section has been designed to clip into the #3001 and #3002 section and also accepts Door Stops #1013, #1014, #1015, #1016, #1017 and Pocket Filler #1012.

Ceiling Frame Adaptor #3005



As for #1005, #2005 and #2005D, the #3005 Ceiling Frame Adaptor provides flexibility of installation and a quick clip in function when used in conjunction with Ceiling Channel #3011 further enhancing the versatility of the Korporate range and maintaining the consistent 36mm appearance.

Ceiling Channel #3011 Shadowline



The #3011 Ceiling Channel provides the architect/designer and contractor an attractive, consistent and economical finish to the top of 92mm stud partitions. When used in conjunction with ceiling frame adaptor #3005 it can be installed without interruption over the top of all plasterboard partitions, full height doorways and glazing.



Series 7000

Suits 76mm Studwork



Similar to the 3000 Series. The Series 7000 System has been developed to accommodate a 76mm wall construction with 13mm plasterboard both sides.

The need in the market place of minimal wall cavity yet load bearing partition wall makes 76mm heavy gauge stud work a common occurrence on commercial buildings sites of today.

This series in the Korporate range further provides the architect/designer increased flexibility of structure but maintaining uniformity of design at doorways and openings.

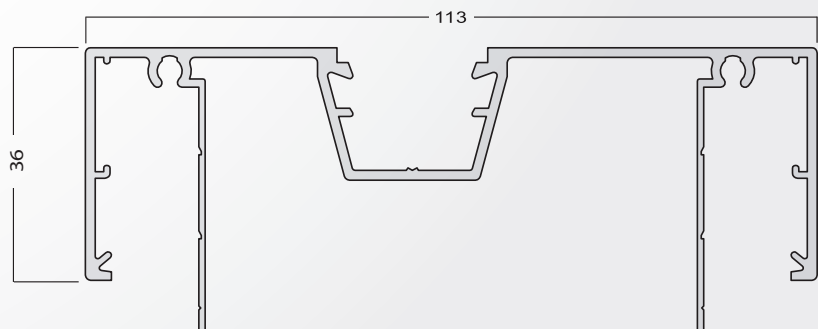
Typical applications are:

- Acoustic partitioning
- 76 stud and 2 layers of 13mm plasterboard
- 64 stud and 3 layers of 13mm plasterboard
- 51 stud and 4 layers of 13mm plasterboard
- Structural partitions
- Loadbearing 76mm studwork



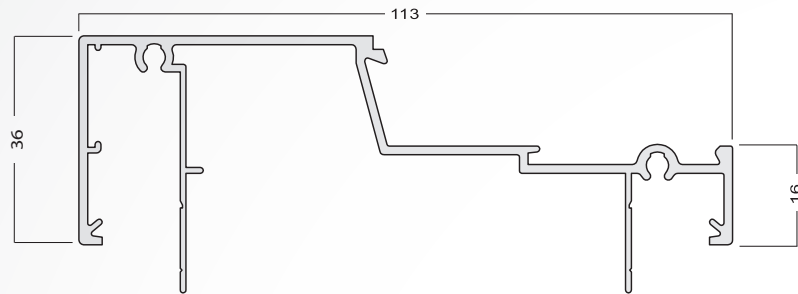
..Provides the architect/designer increased flexibility of structure but maintaining uniformity of design..

Main/Door Frame #7001



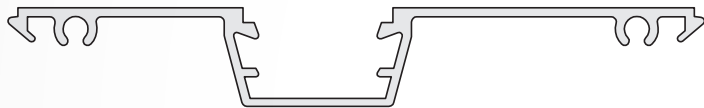
This section being the primary section of the 7000 Series system has been designed to be used in conjunction with 76mm steel stud and 13mm plasterboard. It will accept the #7004 section providing a mullion capable of being glazed on both sides with a slimline appearance of only 36mm.

Sill Transom #7002



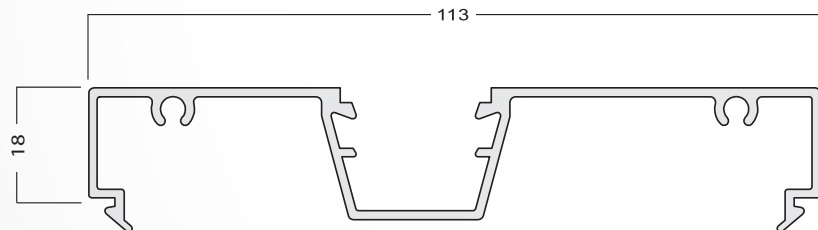
This unique sill section will accept the #7004 Glazing Adaptor forming a transom section whilst maintaining the constant slimline appearance of only 36mm. The extended fins on the sill section facilitate the ease of installation of the section into a 76mm steel stud wall. Sill Bead #1003 clips into it forming an integral glazing section.

Glazing Adaptor #7004



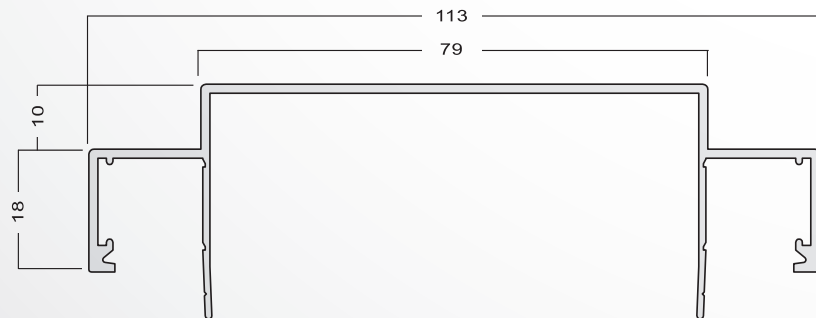
This section has been designed to clip into the #7001 and #7002 section and also accepts Door Stops #1013, #1014, #1015, #1016, #1017 and Pocket Filler #1012.

Ceiling Frame Adaptor #7005



As for #1005, #2005 and #2005D and #3005, the #7005 Ceiling Frame Adaptor provides flexibility of installation and a quick clip in function when used in conjunction with Ceiling Channel #7011 further enhancing the versatility of the Korporate range and maintaining the consistent 36mm appearance.

Ceiling Channel #7011 Shadowline



The #7011 Ceiling Channel provides the architect/designer and contractor an attractive, consistent and economical finish to the top of 76mm stud partitions. When used in conjunction with ceiling frame adaptor #7005 it can be installed without interruption over the top of all plasterboard partitions, full height doorways and glazing.

Series 400

to match shopfront

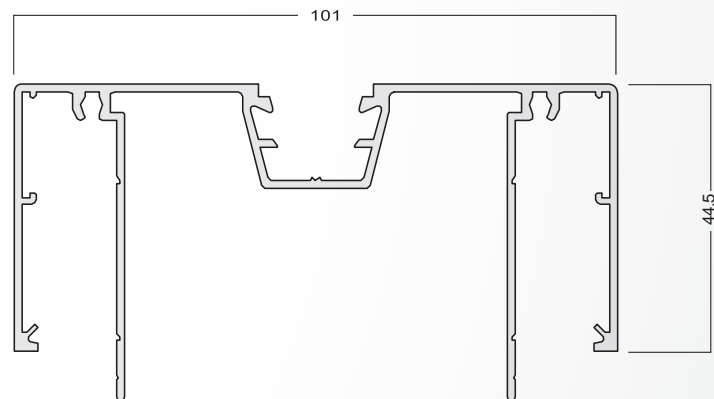


The 401 section has been designed to accommodate the 1000 series clip in adaptors..

Similar in design to the 1000 Series, this system was developed to match a typical shopfront size section i.e. 101 x 44. It is designed to be incorporated along with a steel stud and 13mm plasterboard wall without the need for angles/plaster stop beads being utilised to finish the plasterboard to extrusion junction, as is the case with standard shop front sections.

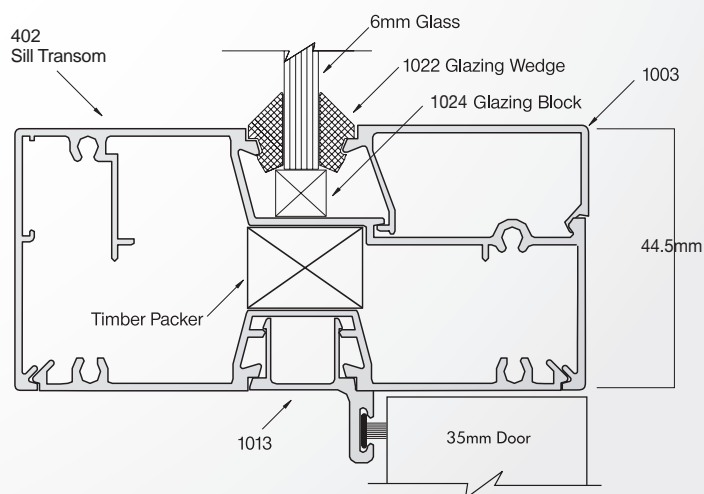
A need in the market place was identified by Studform where architects and designers require a commercial shopfront type section to be used in conjunction with internal steel stud and plasterboard partition walls.

Difficulties arise using standard shopfront sections with steel studwork, as their are no fins to attach the extrusion to the studwork plus the shape of the section does not allow the plasterboard to be fitted in behind the flange hence requiring a flushed angle or similar to provide an acceptable finish.



Main Frame #401

The #401 Section has been designed to accommodate the 1000 Series clip in adaptors further providing the designer complete flexibility of selection when using the Korporate series system.

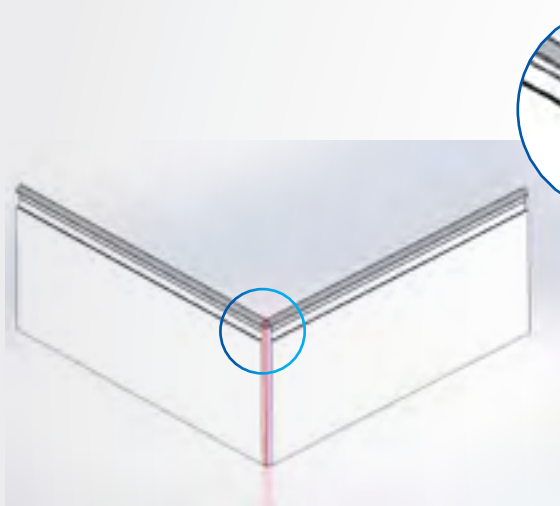


Sill Transom #402

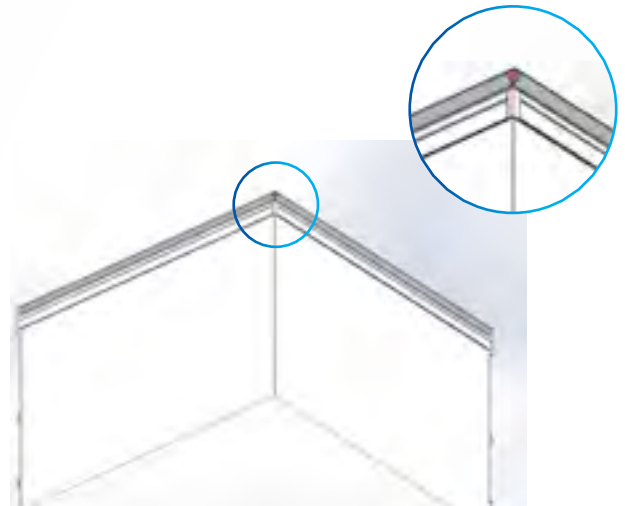
The #402 Section has been designed to accommodate the #1003 clip in sill bead and 1000 series adaptors, further providing the designer complete flexibility of selection when using the Korporate series system.

Korpline

unique screw fix skirting system



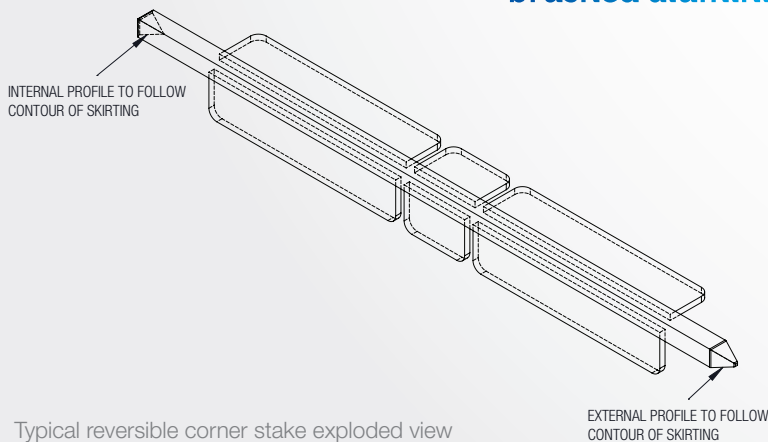
External 90° corner



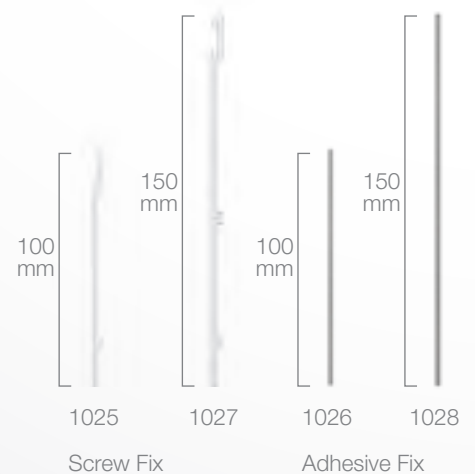
Internal 90° corner

- **Reversible stake option for internal and external mitres**
- **Quick and easy installation of corners**
- **100 & 150mm standard profiles**
- **Range of finishes available, including various anodised, powder coated and brushed aluminium**
- **Secure and strong junctions without need of mitre cutting aluminium profile**

Note: corner stakes and cover tape available in grey, white or black. Other colours available upon project request.



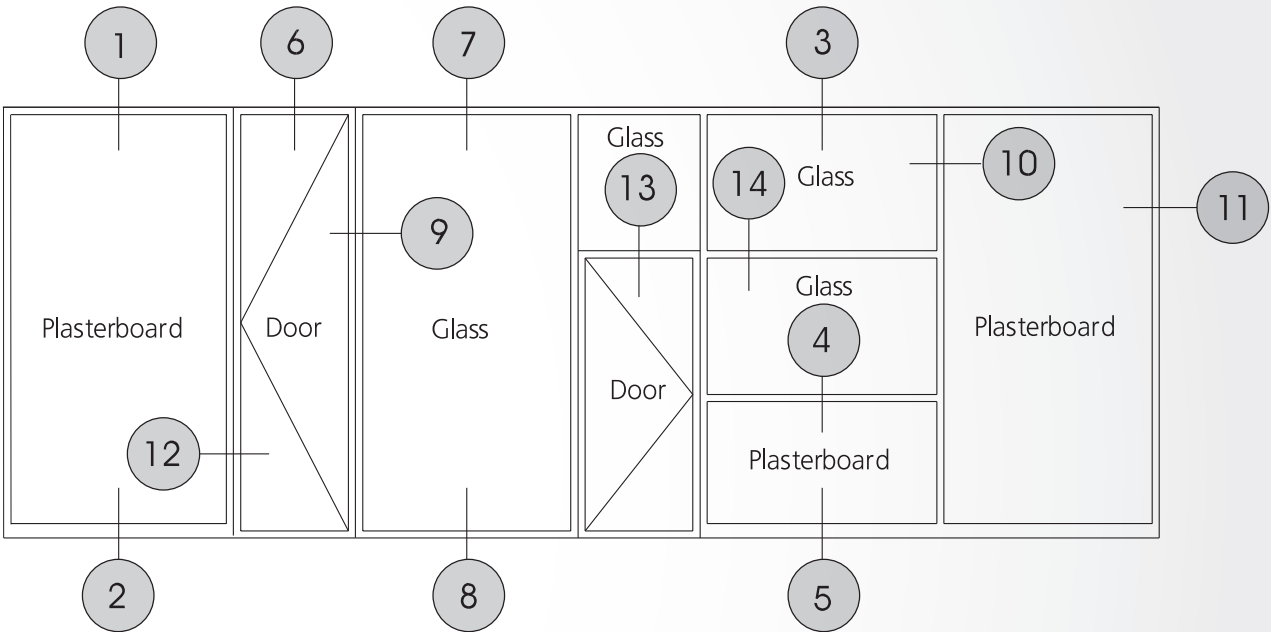
Typical reversible corner stake exploded view



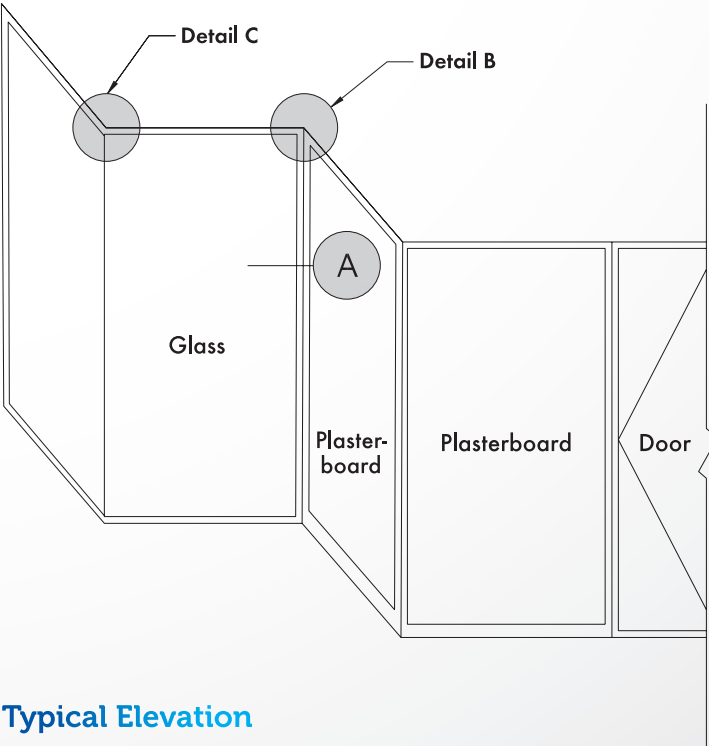
Architectural specification: Aluminium skirting to be Korpline 100mm (1025) / 150mm (1027) of colour..... Reversible corner stakes shall be used with the skirting system on all internal and external corners, along with matching cover tape throughout.

Elevations

Includes numbered cross sections



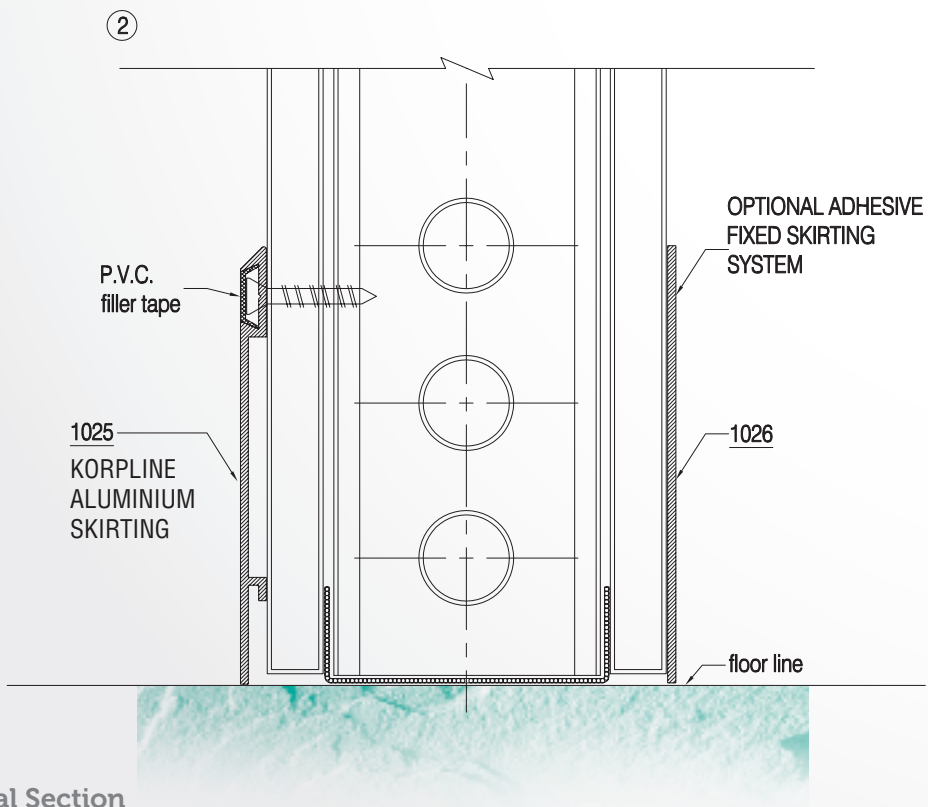
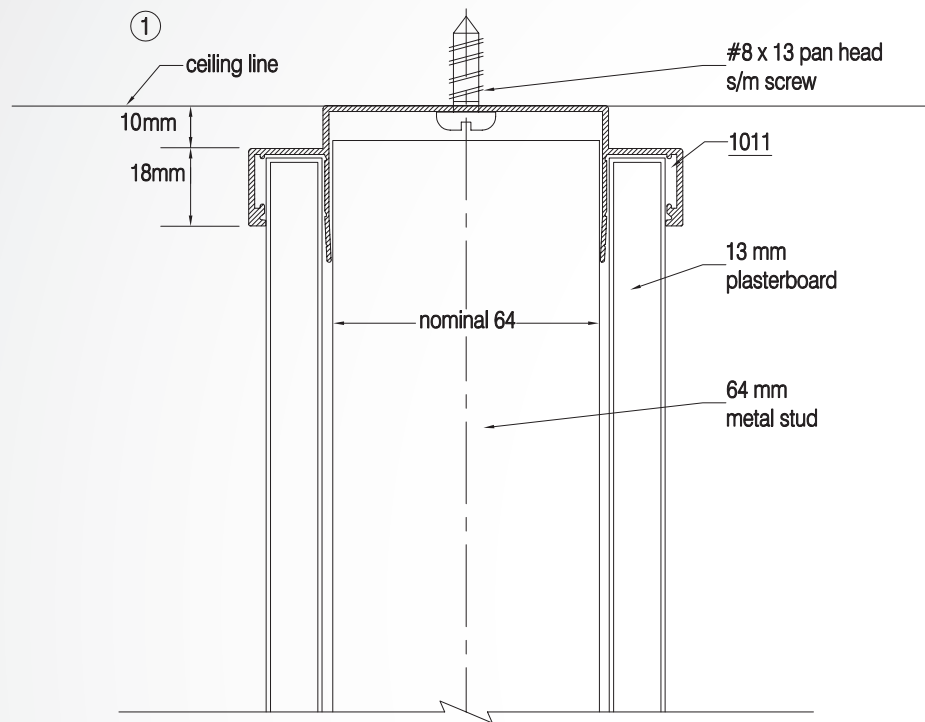
Typical Elevation
Applies to all Series



Typical Elevation

Assembly Details

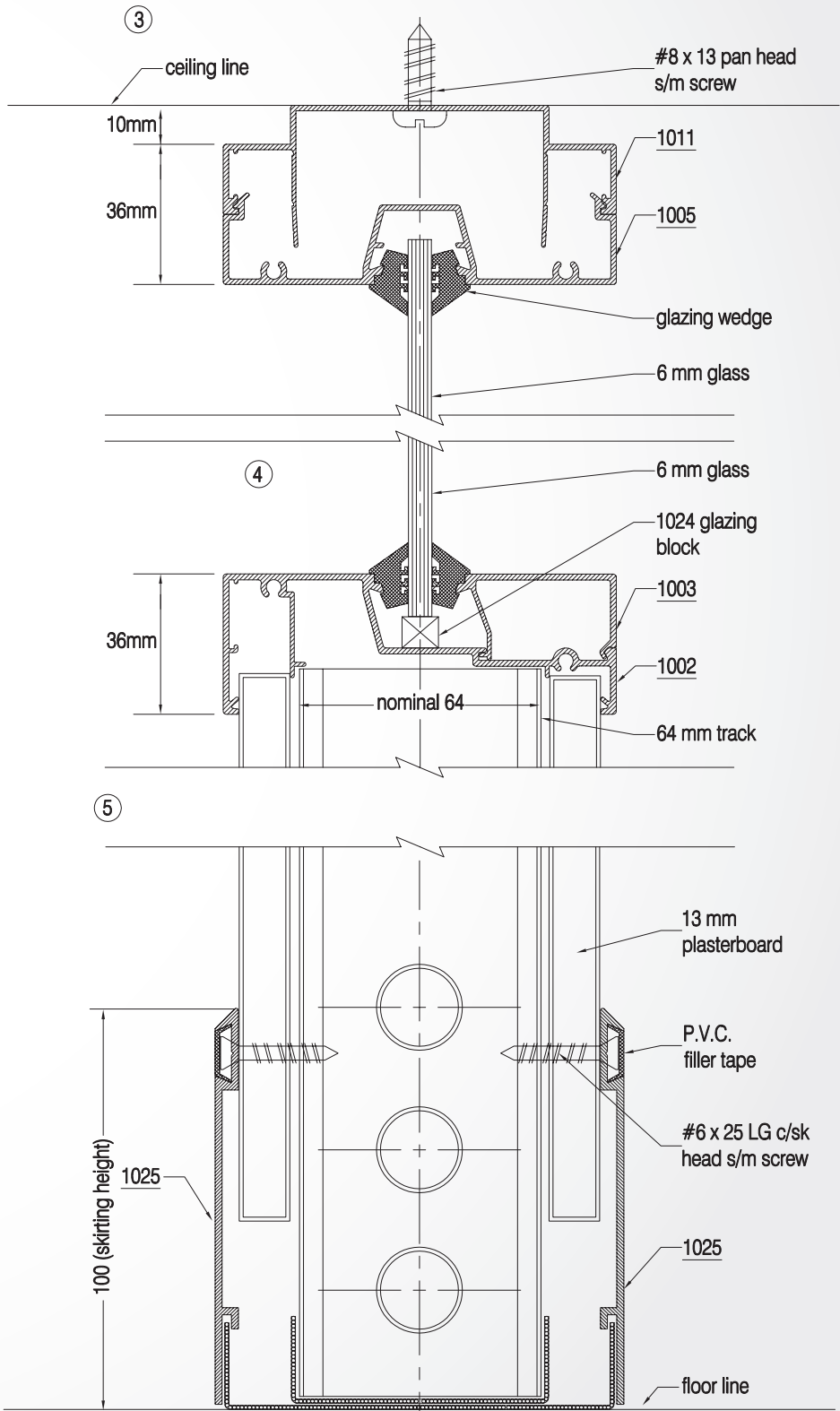
Applies to all 1000, 2000 and 2000D Series



Typical Vertical Section

Assembly Details

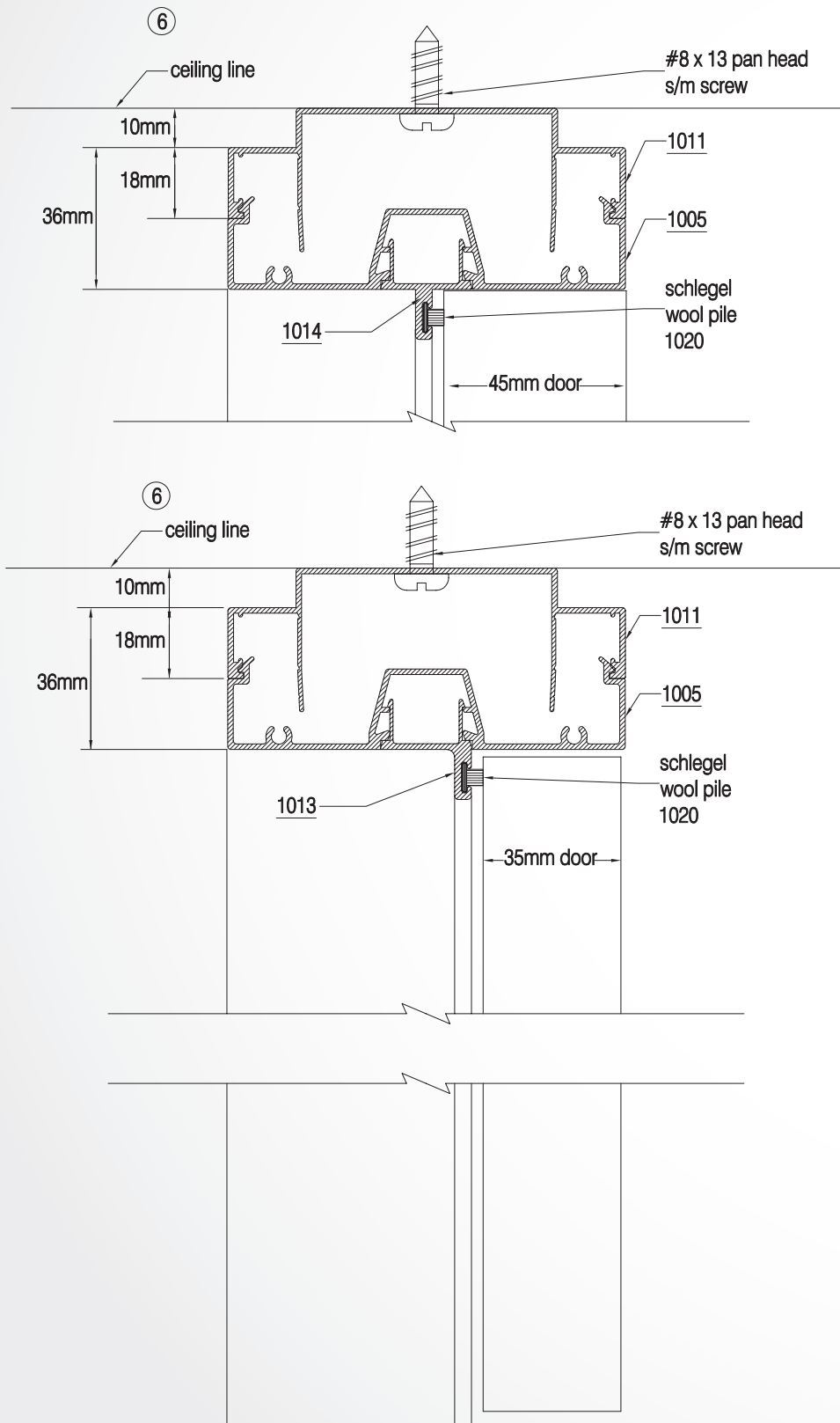
Series 1000 Centre Line Glazing



Typical Vertical Section

Assembly Details

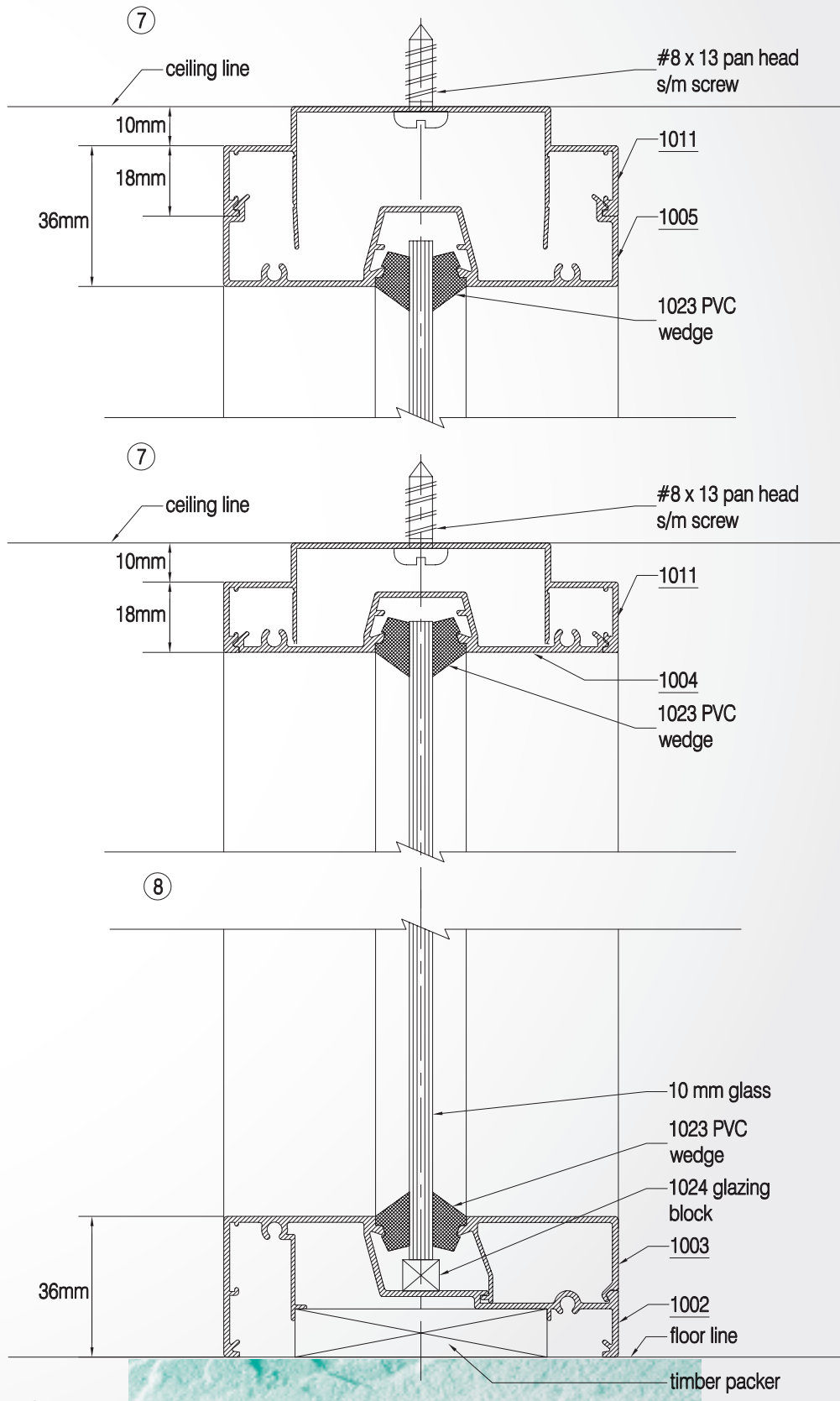
Series 1000 Centre Line Glazing



Typical Vertical Section
Door Assembly

Assembly Details

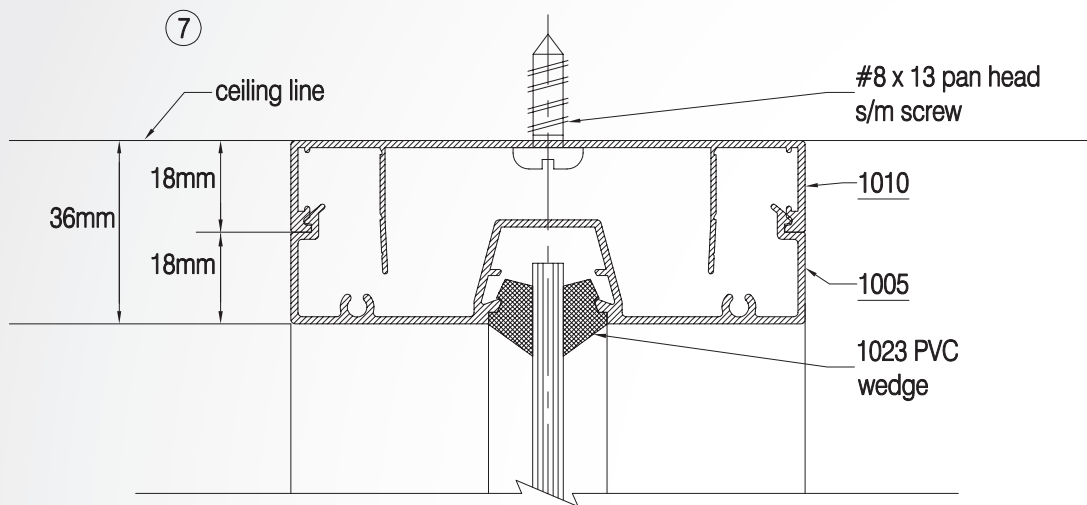
Series 1000 Centre Line Glazing



Typical Vertical Section

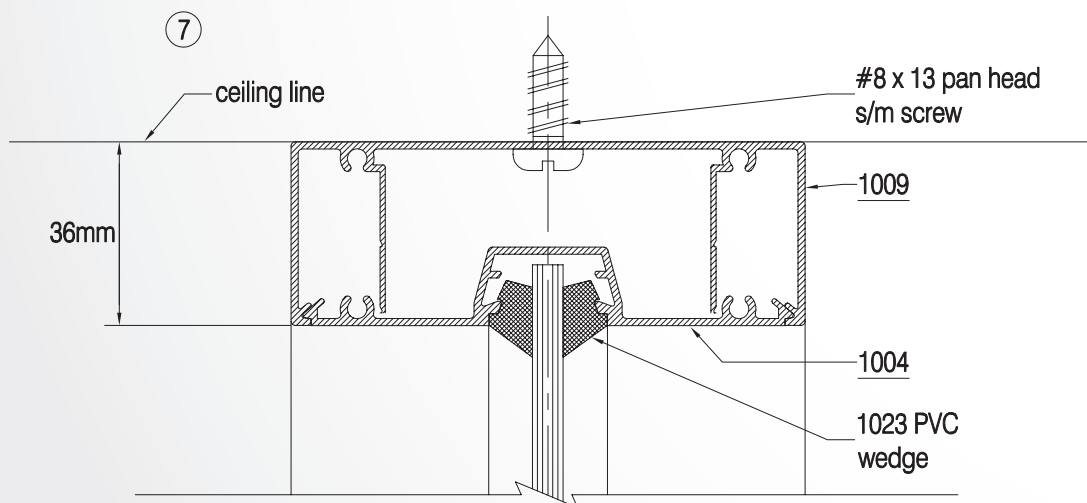
Assembly Details

Series 1000 Centre Line Glazing



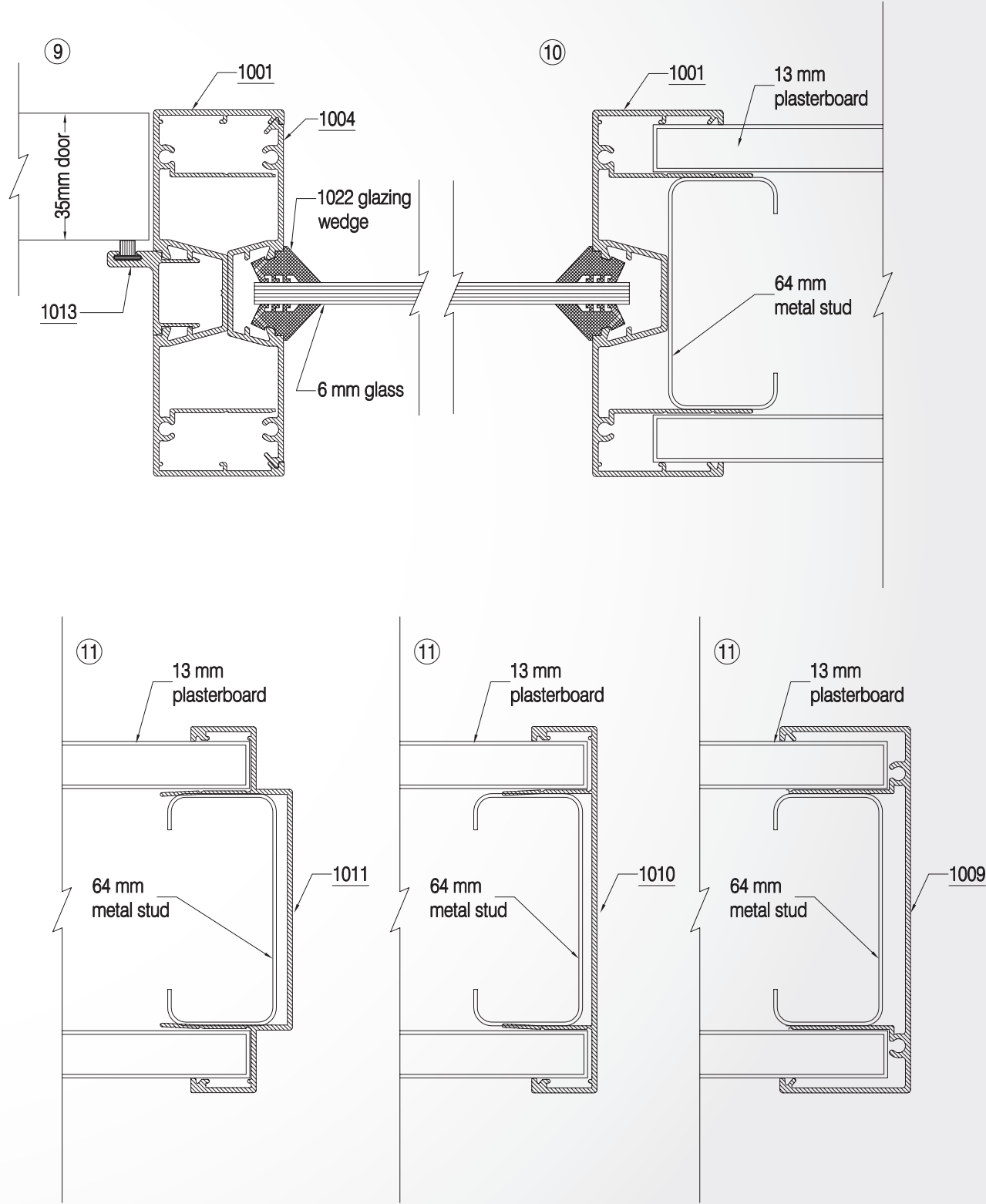
Typical Vertical Section

Alternative Ceiling Junction Details



Assembly Details

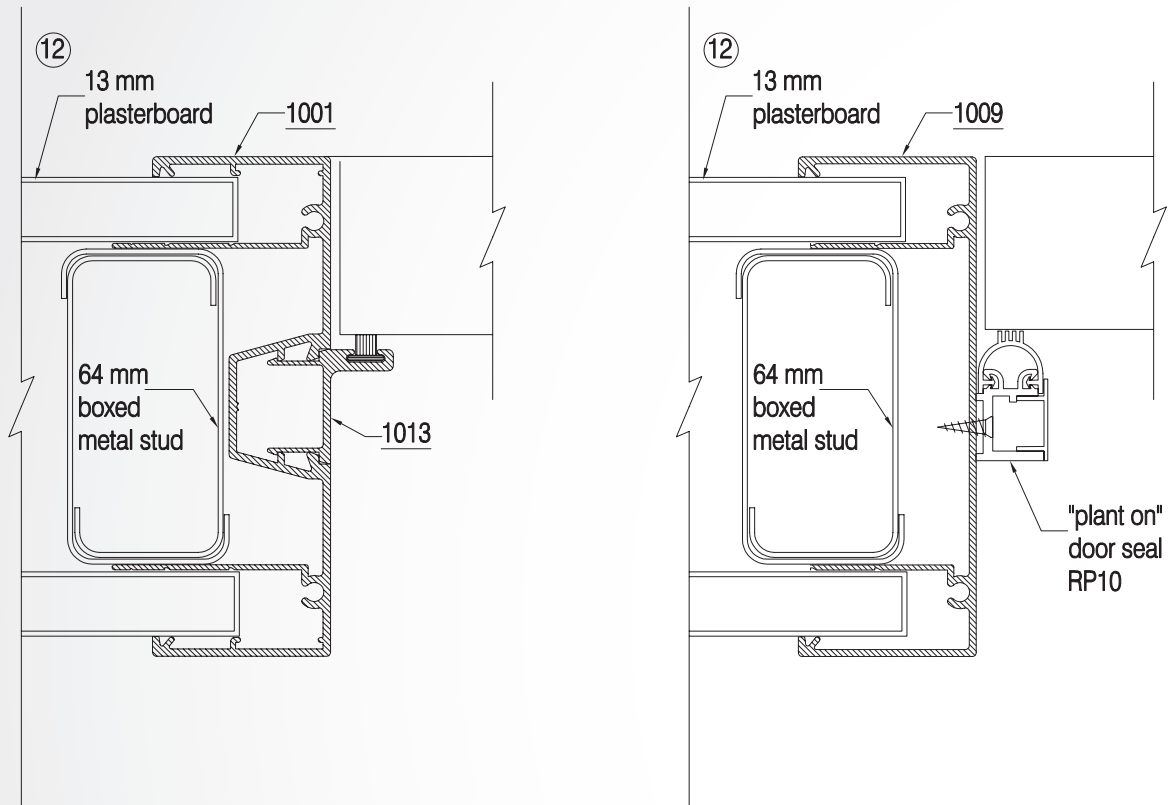
Series 1000 Centre Line Glazing



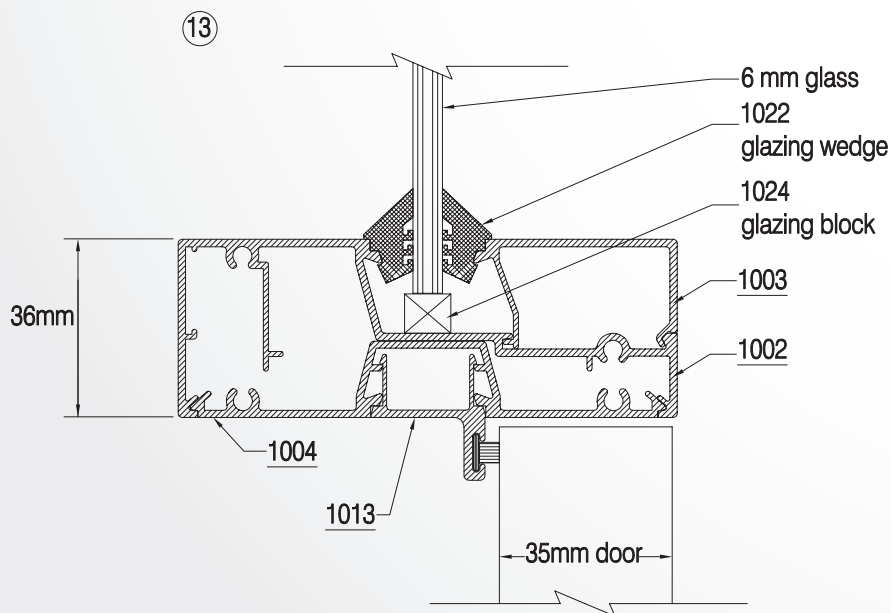
Typical Horizontal Section

Assembly Details

Series 1000 Centre Line Glazing



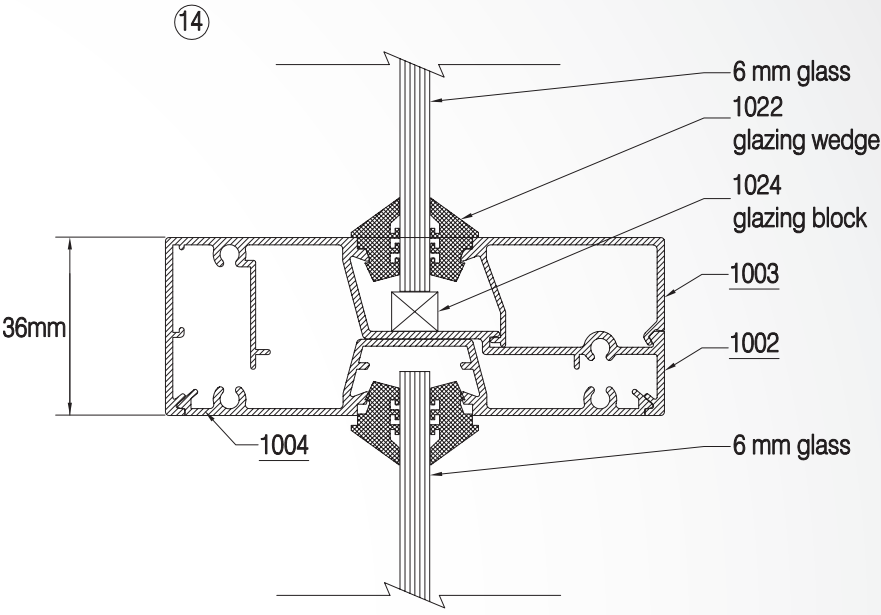
Typical Horizontal Section



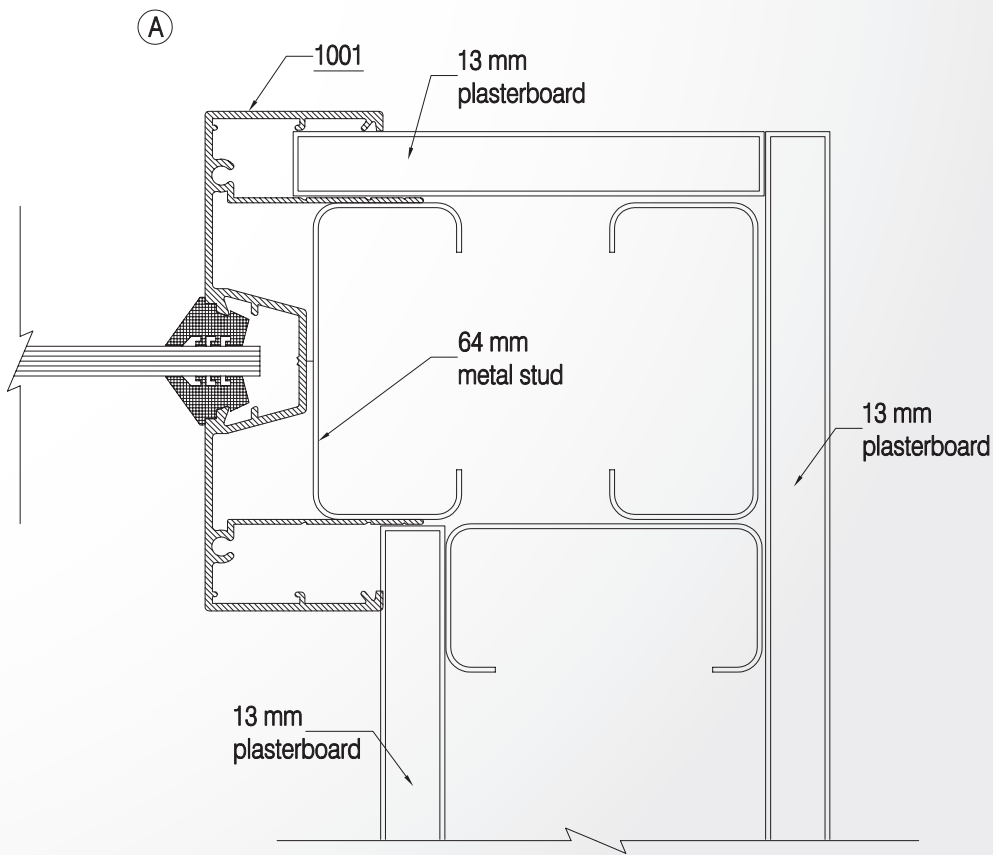
Typical Vertical Section

Assembly Details

Series 1000 Centre Line Glazing



Typical Vertical Section

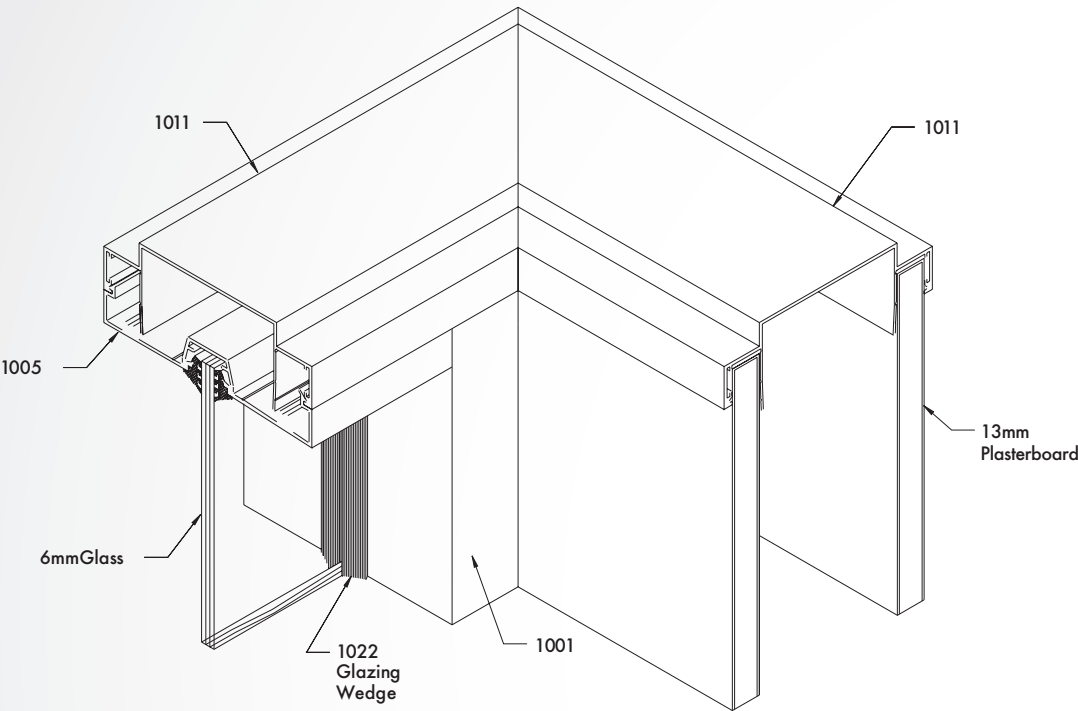


Typical Horizontal Section

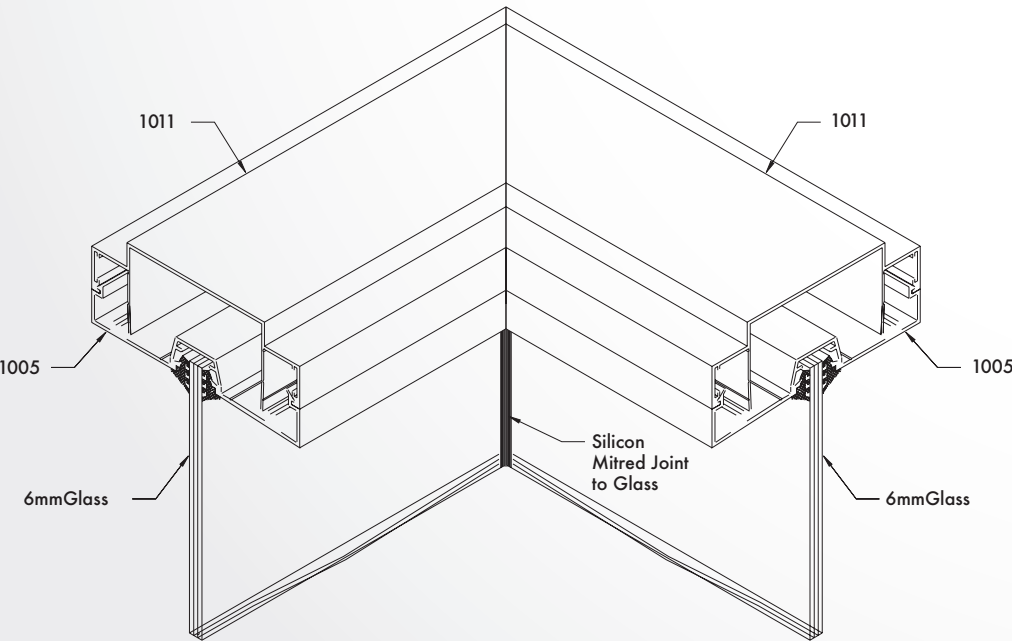
Detail A

Assembly Details

Series 1000 Centre Line Glazing



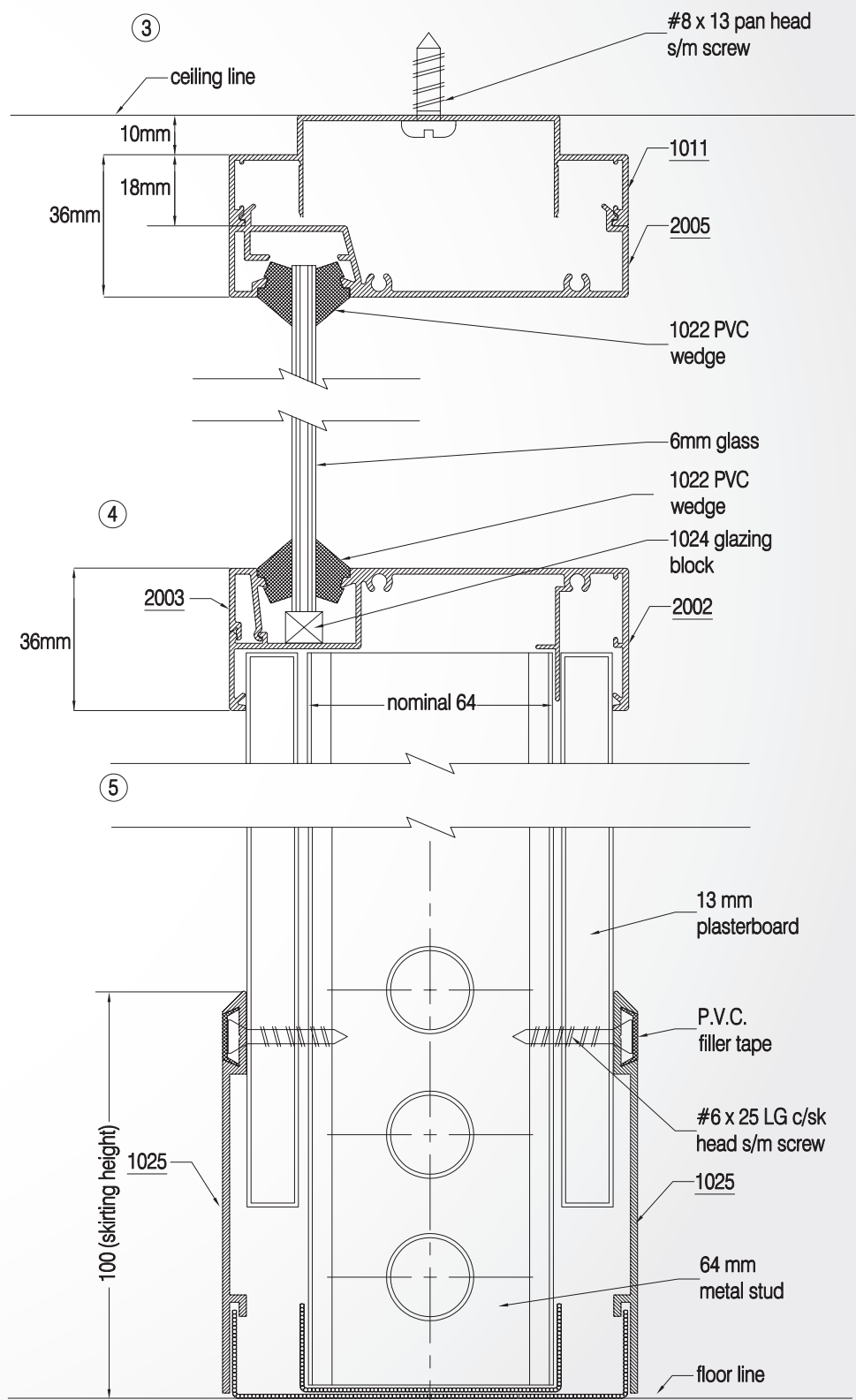
Detail B



Detail C

Assembly Details

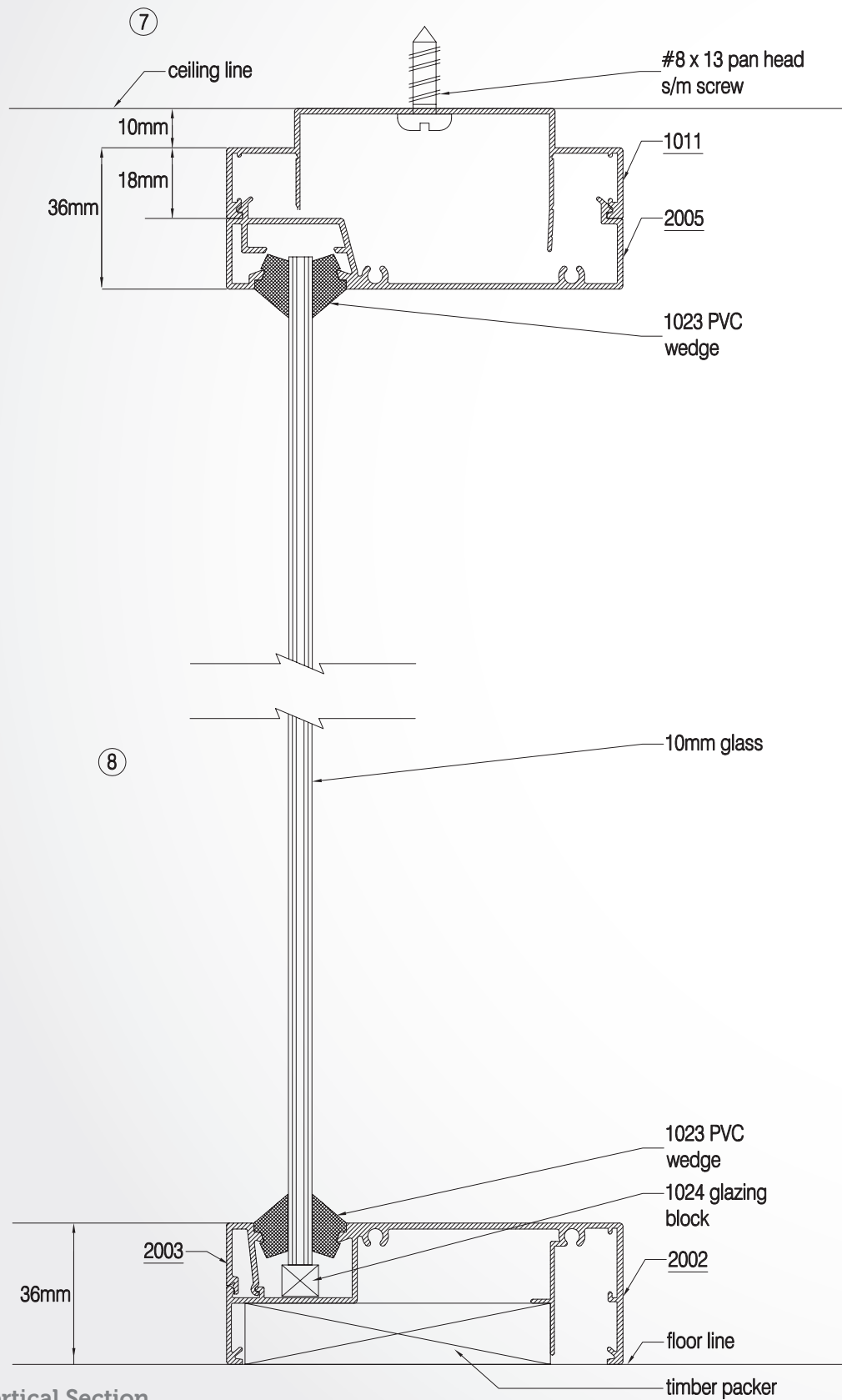
Series 2000 Front Line Glazing



Typical Vertical Section

Assembly Details

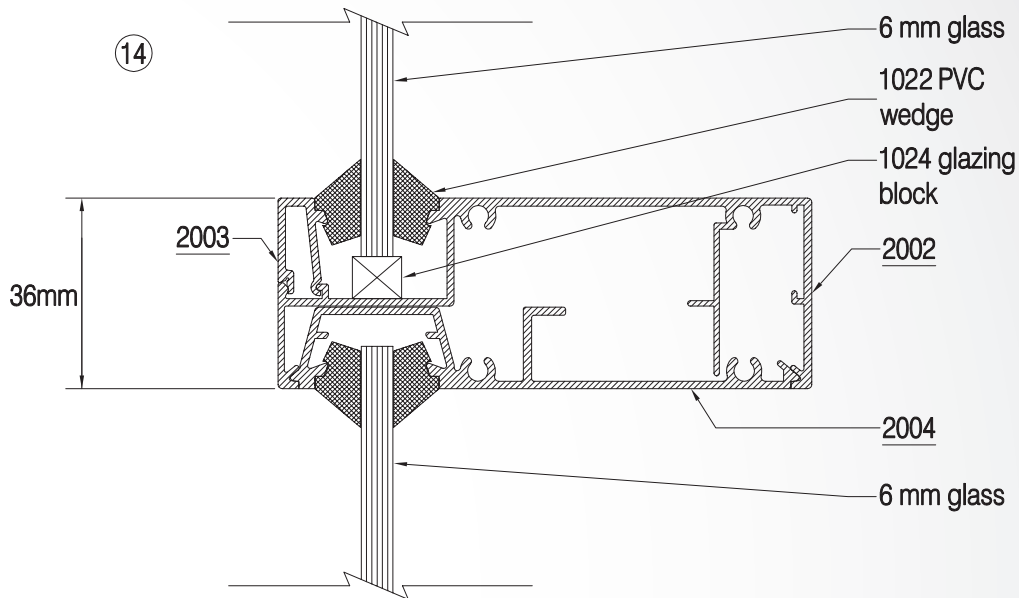
Series 2000 Front Line Glazing



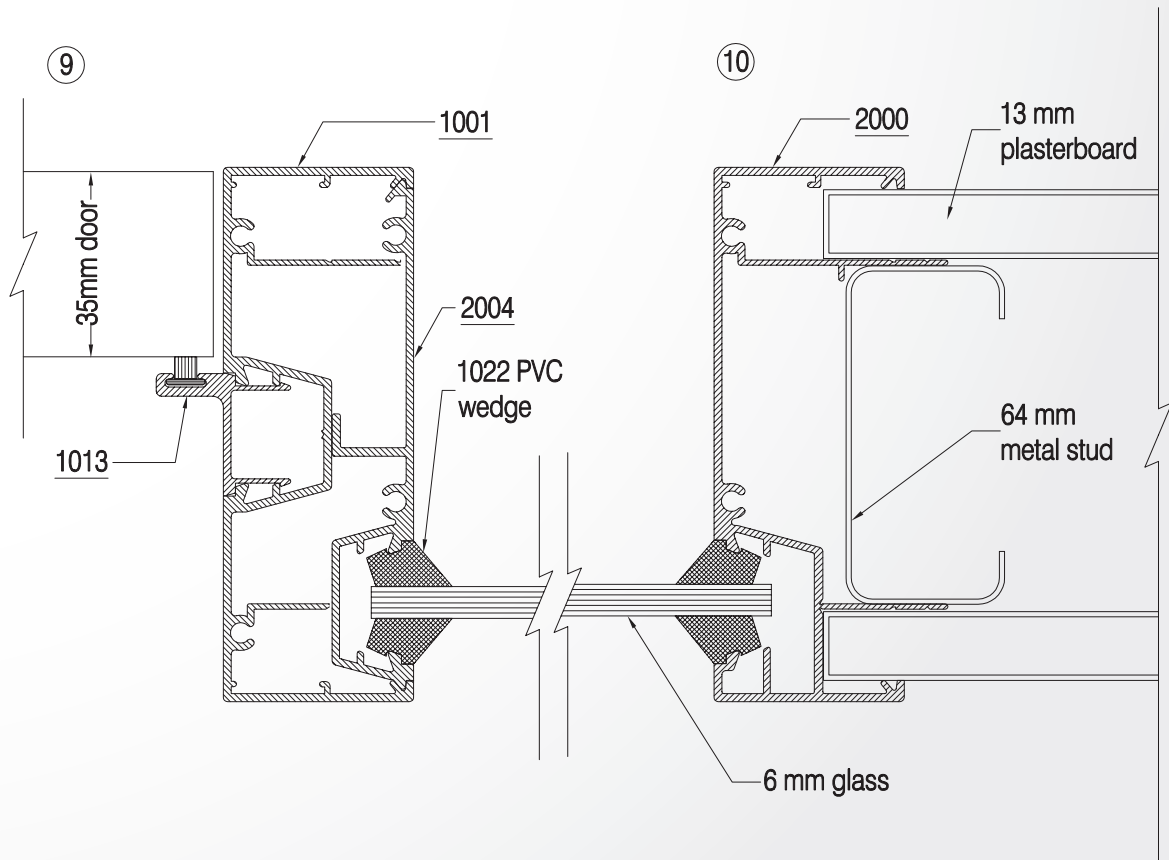
Typical Vertical Section

Assembly Details

Series 2000 Front Line Glazing



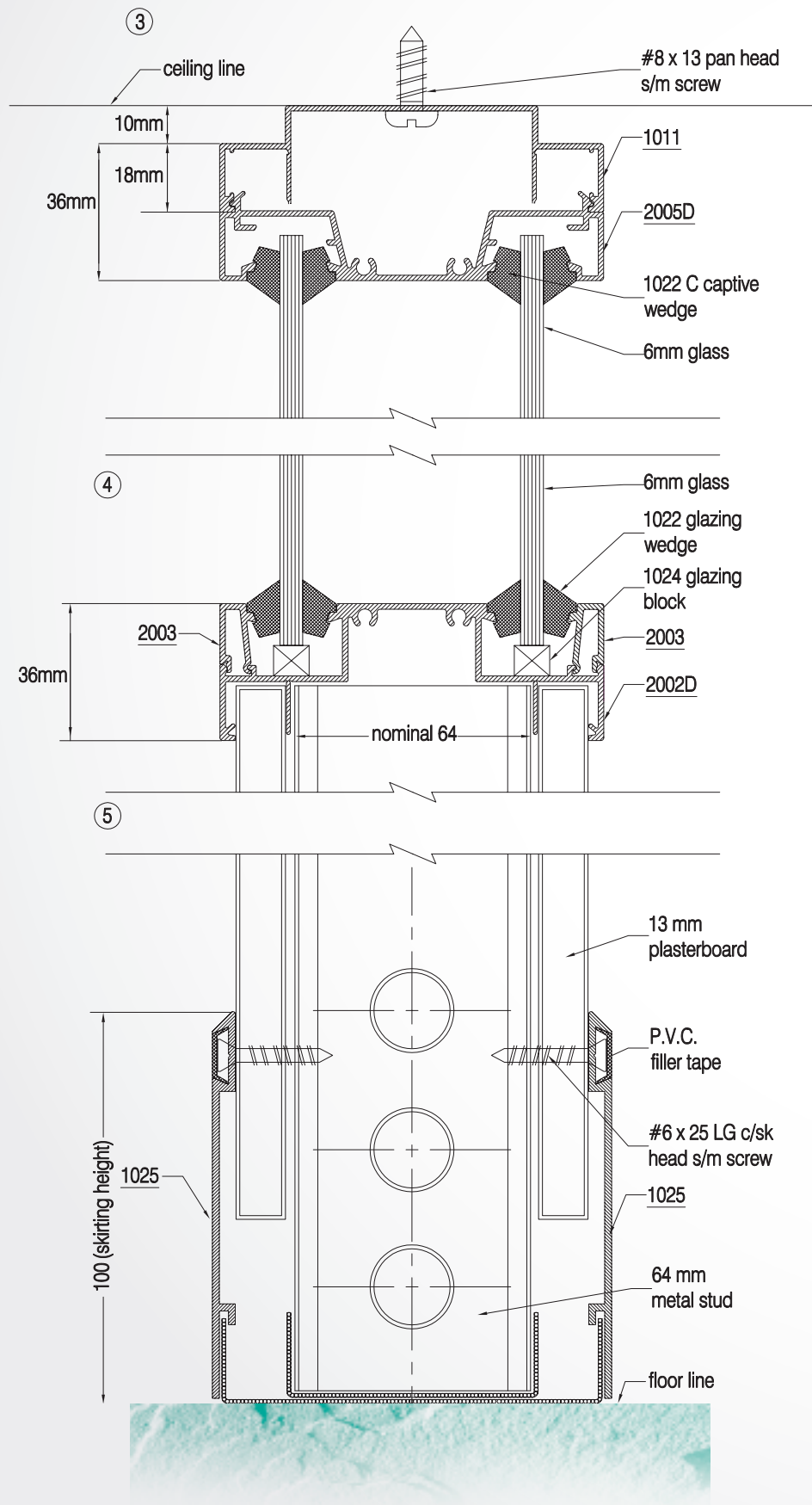
Typical Vertical Section



Typical Horizontal Section

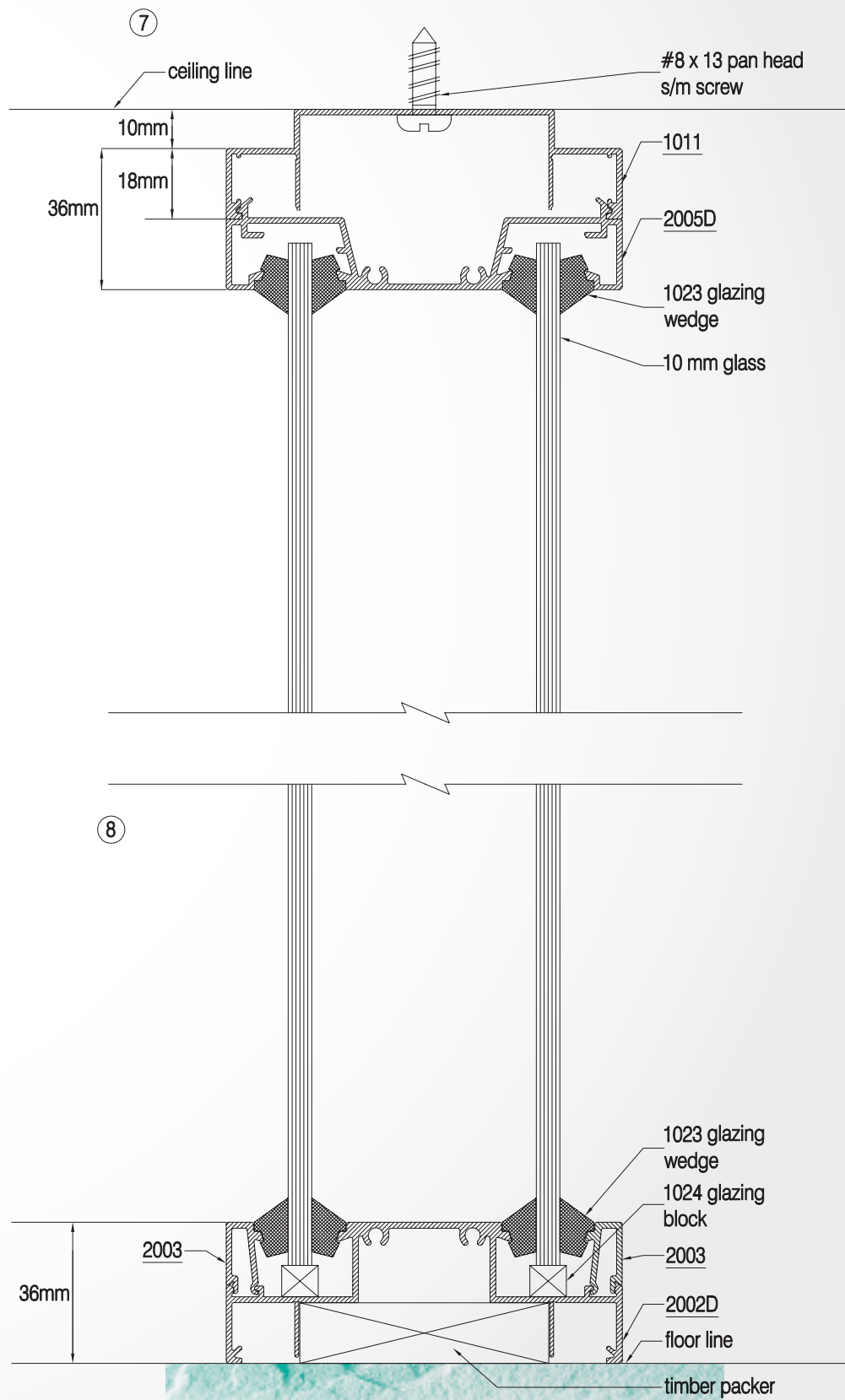
Assembly Details

Series 2000D Double Glazing



Assembly Details

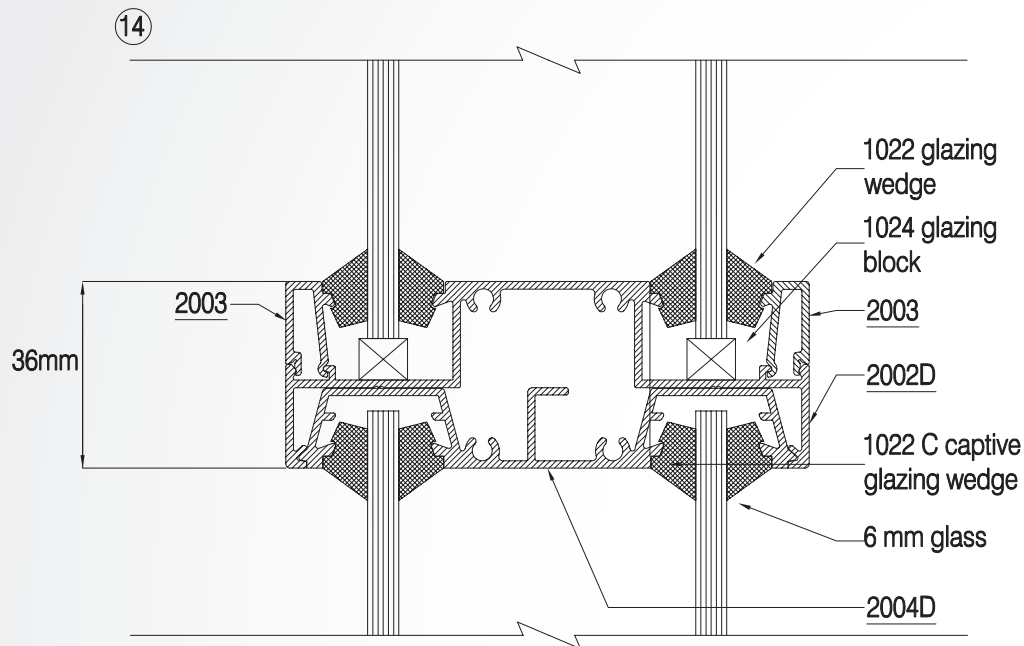
Series 2000D Double Glazing



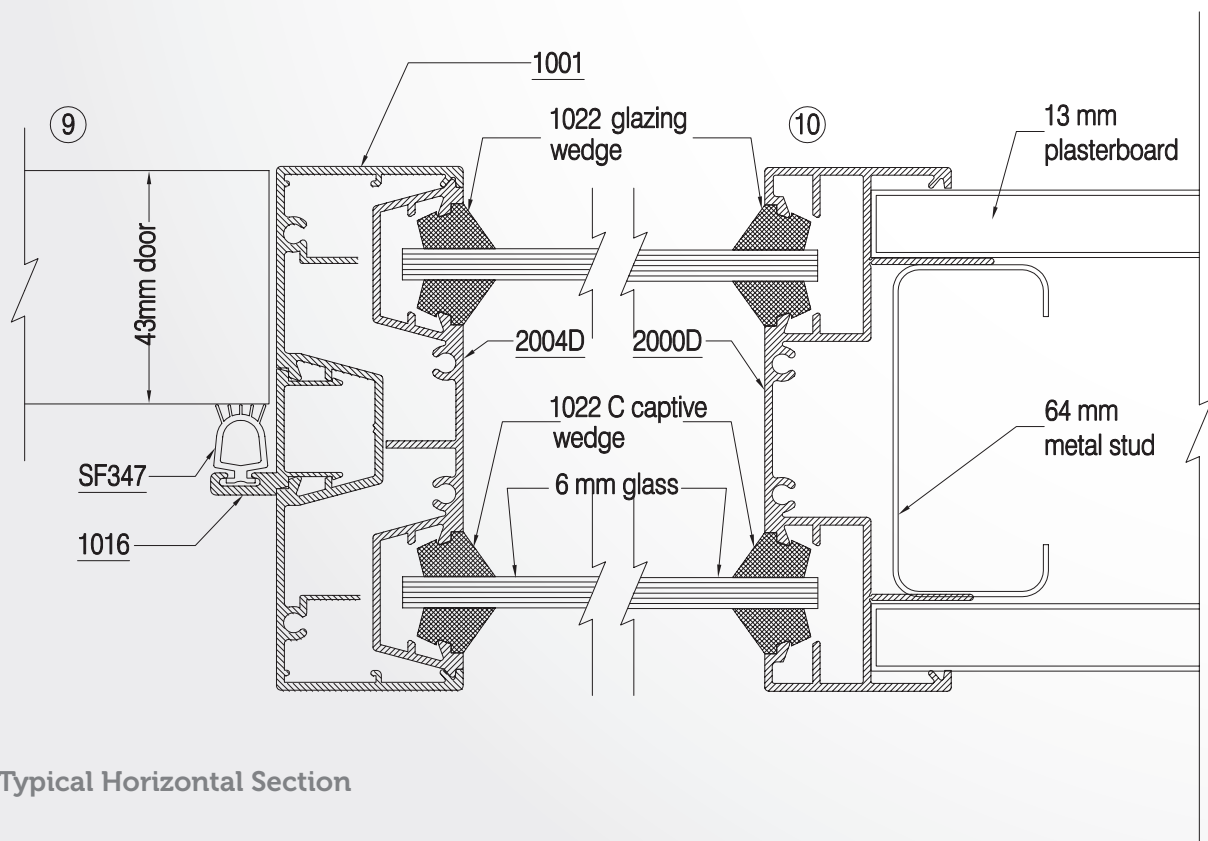
Typical Horizontal Section

Assembly Details

Series 2000D Double Glazing



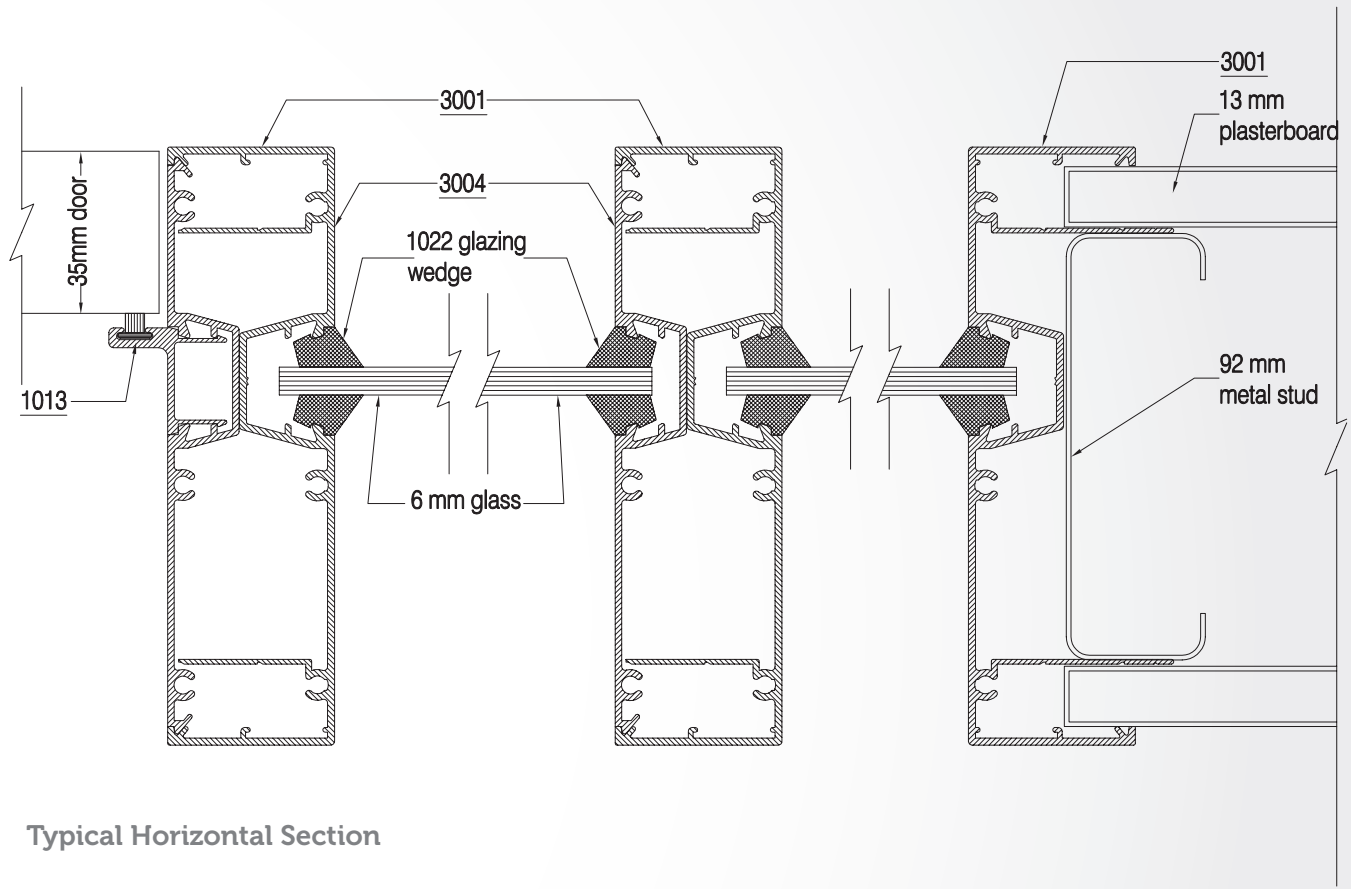
Typical Vertical Section



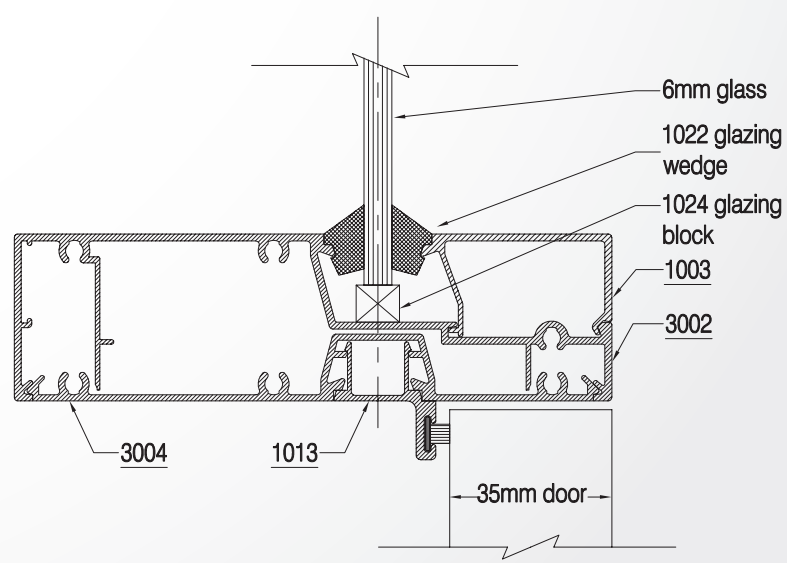
Typical Horizontal Section

Assembly Details

Series 3000 Suits 92mm Studwork



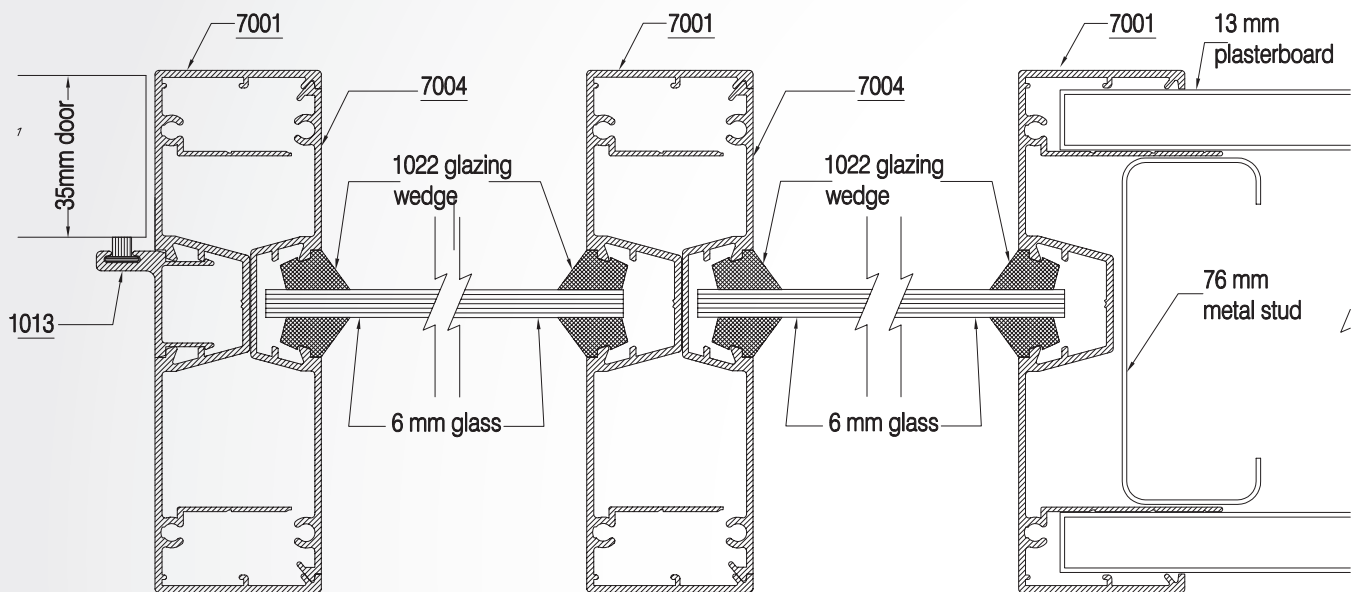
Typical Horizontal Section



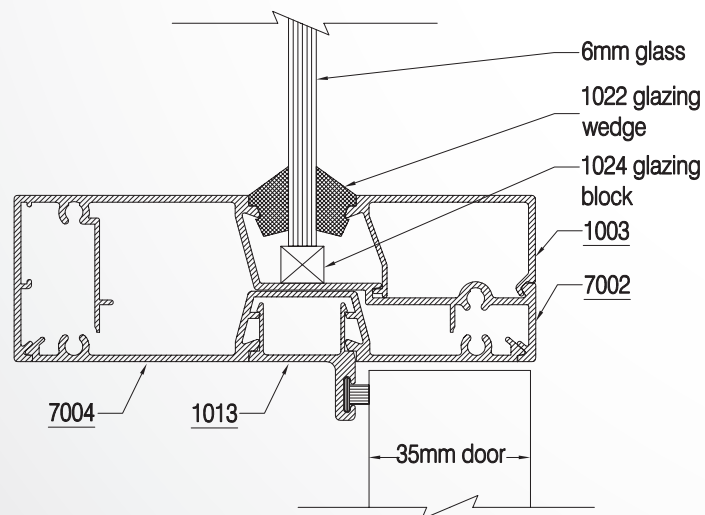
Typical Door/Fanlight Detail

Assembly Details

Series 7000 Suits 76mm Studwork



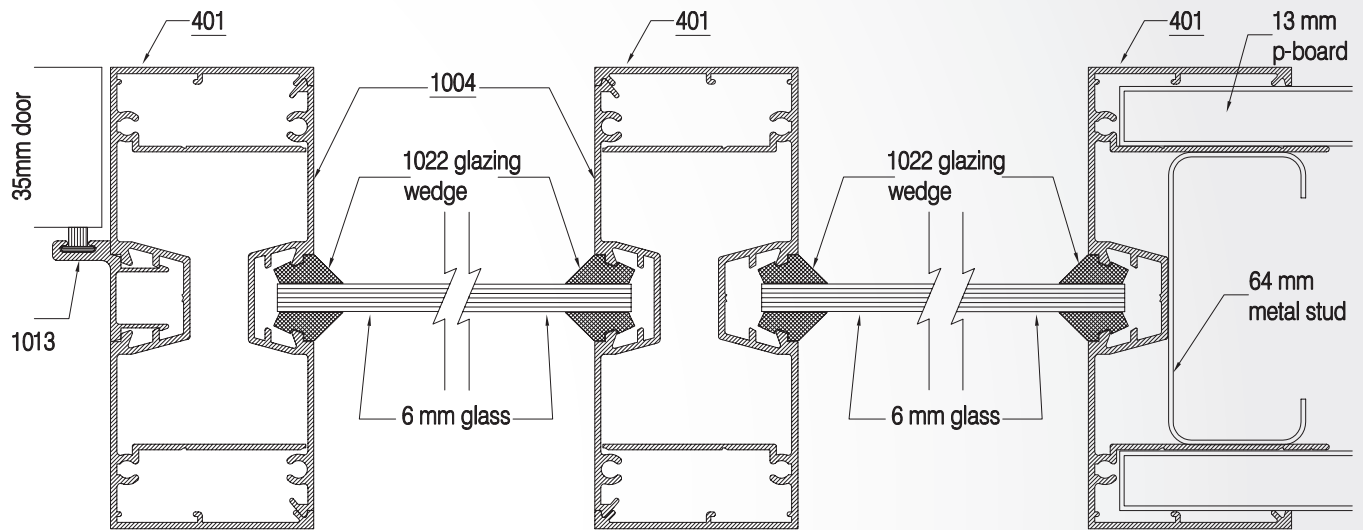
Typical Horizontal Section



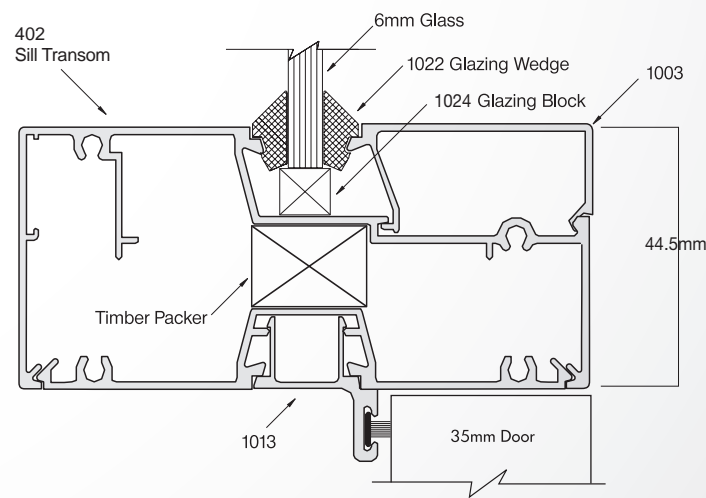
Typical Door/Fanlight Detail

Assembly Details

Series 400 To Match Shopfront



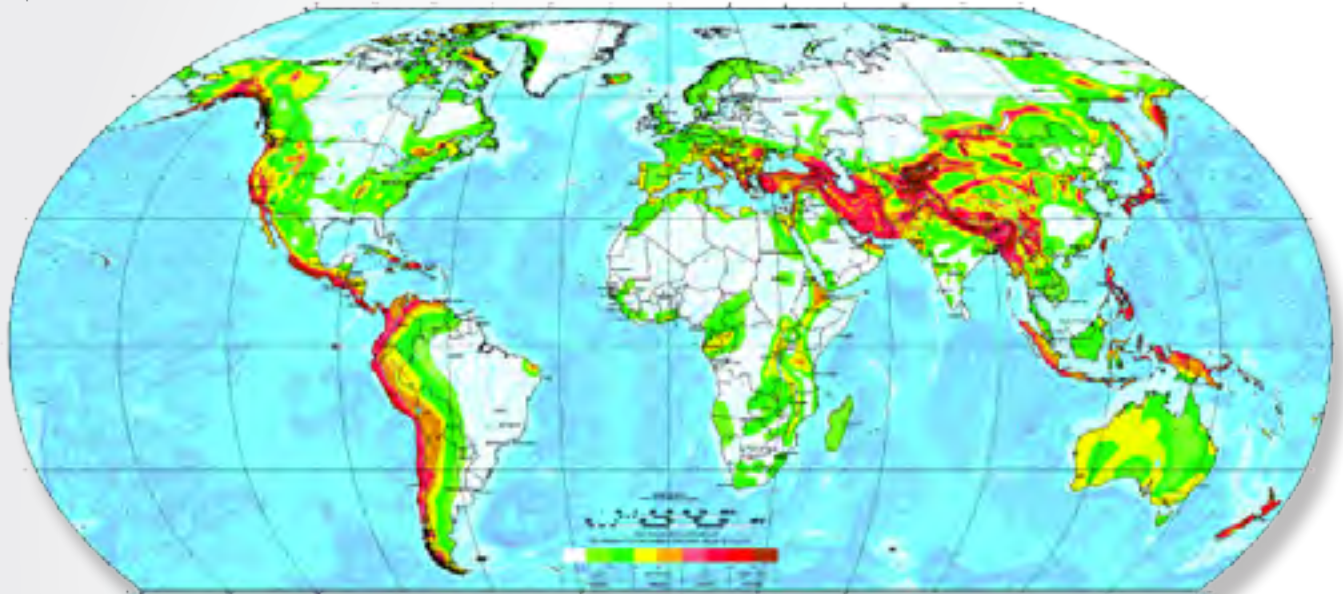
Typical Horizontal Section



Typical Door/Fanlight Detail

Seismic Design

Studform Pty Ltd
 Inspired Solutions



A map displaying the risk of the occurrence of an earthquake.

Supporting your project with well established experience in seismic design

Seismic activity in Australia is moderate and high in New Zealand and areas of the United States of America. Studform has successfully engaged and worked with consultants internationally, providing an extensive range of high level expertise and pooling of experience from various areas of the globe.

Utilisation of consultants across the globe

Structural Engineer
JW Consulting
 Adelaide, SA, AUS

M.T.P. Structural Engineer
 Estructure California, USA

A.W. Ph.D., S.E.
Professor and Chair,
 Department of Civil, Structural and
 Environmental Engineering
 University of Buffalo
Director, Structural Engineering and
 Earthquake Simulation Laboratory
 New York State, USA

Available seismic report documents 201–124

Steel stud wall construction and aluminum partitions suites may require the steel studs or vertical aluminum sections to transfer wind and seismic loads to the primary structure of the building depending on the design requirements. Where a suspended ceiling has been provided, the partitions are fixed to the ceiling, and partitions are required to resist earthquake or wind loads, then the ceiling should be designed for these lateral loads or appropriate load transfer from the top of the partitioning to the main structure will need to be undertaken. These design requirements should be based on appropriate engineering and consideration of how these actions are carried back to the structure. Studform Pty Ltd is well experienced in this field, and can assist in coordinating high level expertise in expediting project designs for seismic requirements.



Avoid future catastrophes on your project

The Building Code of Australia (BCA) sets out the regulatory requirements for buildings in Australia. Earthquake actions are to AS1170.4. The aim of earthquake standards is to prevent collapse, minimise damage, avert injury to building occupants and allow free egress from the building if necessary.

Generally, the architect or the building designer is responsible for designing and specifying partition walls in a building. The structural engineer for the building will not normally be involved in the design of the partition walls. When required by the BCA, the specification or drawings, the partition walls may be required to be designed for wind and/or earthquake loads. If this is required then often it is the responsibility of the builder or contractor, or the subcontractor for the project to arrange for these services.

The supervision of construction is the responsibility of the builder. All construction should be supervised by a suitably qualified person. Specific seismic design and components shall be diligently adhered to.



Avoid future catastrophes on your project

Loads perpendicular to the plane of the partition from seismic activity will result in bending of steel stud work and aluminium glazing sections. For partition walls, it is important that the top of the stud wall is well restrained so the top of the wall can move backwards and forwards during interstory sway between two adjacent floors during earthquake events.

Where the partition wall is fixed to the suspended ceiling, specific requirements will be required so that forces are carried back into the structure by way of bracing or similar.

Glazed partitions that are used to provide natural light, observation, open space, architectural requirements and environmental needs can be either full height glazing with stand-alone aluminium sections spanning floor to ceiling or can be part height glazing incorporated within the metal stud partition walls. With the Korporate partitioning system specific width spans being no greater than 3m between primary braced vertical members shall be adhered to for projects constructed in Australia.

Specific design assistance is available and necessary from the team at Studform where your project is required to adhere to seismic codes for particular building types.

Architectural specifications

Korporate Aluminium Partitioning Suite

Glazed partitions shall be selected from the Korporate Aluminium partitioning suite as manufactured by Studform.

All Partition sections shall be selected from the Korporate (1000/2000/3000/7000/400)

series including (Frontline/Centreline/Double glazing) sections as required.

All materials shall be of prime quality suited to anodised finishes.

All Korporate partitions shall be installed in accordance with the manufacturers recommendations and according to the Korporate assembly details on pages 22–40.

Current BCA standards require that class 2 to 9 buildings must resist earthquake loads determined in accordance with AS1170.4.

A signed off Korporate partition engineer report shall be incorporated with documentation at project completion.



Download specifications from www.studform.com



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Ph: 08 8448 2000

www.studform.com.au