

System 17 SP Curtain Walling



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The silicone pointed curtain walling system has been developed as an extension to our standard System 17 High Rise Curtain Walling to offer flush vertical and horizontal joints. The following supplementary literature must be read in conjunction with the System 17 High Rise and Latitude Curtain Walling manuals.

Introduction

The system is based on the tried and tested Metal Technology System 17 capped curtain walling. SP curtain walling makes use of all of the standard System 17 mullion and transom structural sections.

The system incorporates specially made double glazed units which are clamped directly into the curtain walling frame. The horizontal and vertical joints between the glass units are then silicone pointed to give a flush finish to the external façade.

The SP System accommodates 32mm, 34mm, and 36mm unit thicknesses, with specific glass and cavity combinations. The System 17 Latitude vent may be incorporated within the SP System. As with all Metal Technology systems, the SP curtain walling system is manufactured to exacting standards enabling economy to be combined with strength to give many years of aesthetic, trouble-free operation.

This manual only refers to elements of fabrication and installation specific to SP Curtain Walling, and must be read in conjunction with the System 17 and System 17 Latitude Curtain Walling manuals.

Thermal Performance

Metal Technology SP curtain walling in conjunction with the correct glass specification is designed to aid compliance with the latest thermal requirements of the current building regulations.

Scope

This specification defines materials, construction, finishes and size limits for the SP curtain walling system.

Materials

Aluminum profiles are extruded from aluminum alloy 6060T6, T5, or T4 complying with the recommendations of BS EN 12020 -2 / BS EN 755-Parts 1 to 9. Polyamide thermal breaks are produced from glass reinforced nylon sections designed to withstand temperatures in excess of 200°C, allowing the sections to be powder coated after thermally breaking.

Finishes

The range of sections can be provided in either of the following range of finishes:

1. Anodised to BS 1615 or BS 3987
2. Powder organic coated to BS 6496 or BS EN 12206-1

Where required, a different colour/finish can be provided for the structural sections internally than to the external perimeter.

Construction

Curtain wall framing members are manufactured as detailed in the System 17 manual.

Metal Technology do not recommend facetting curtain walling screens when using silicone pointed mullions.

Metal Technology recommend that A2 or A4 Austenitic (300 series/class 70) stainless steel fixing screws are used in the assembly of their products.

Glazing

The inner panes of all fixed light double glazed units are to be toughened glass. Fixed light glazing is set against extruded gaskets internally which are fitted into gasket grooves in the mullions and transoms.

The vertical and horizontal edges of the fixed light double glazed units are retained by local glazing lugs. Thermally broken aluminium sections are fitted to the mullions and transoms at the perimeter.

The vertical and horizontal joints are then sealed with black neutral cure silicone.

Installation

Detailed installation instructions are provided in this and the System 17 manual which should be strictly followed.

Concealed Opening Vents

The System 17 SP curtain walling can incorporate concealed top hung, open out casement windows. Refer to the System 17 Latitude manual for further details.

Performance

This system has been designed as a front-sealed system. Where overall screen height exceeds 30 metres, refer to Metal Technology's Technical Department. The system has been impact tested to BS EN 14019 and tested for weather tightness to EN 13050 and in accordance with the CWCT dynamic test for curtain walling and achieved the following results:

Air permeability	- 600 Pa
Water tightness	- 600 Pa
Wind resistance	- 2400 Pa
Dynamic water tightness	- 600 Pa
Wind load (safety)	- 3600 Pa

Full test report details are available on request.

These levels of performance should be sufficient for any location within the UK and Ireland. Where screen requirements differ from those stated in this literature refer to Metal Technology's Technical Department.

Development

Our policy is to continually research the market for new and improved products. We must therefore retain the right to amend specifications without prior notice. It is recognised at Metal Technology that in some instances special sections may be required for particular projects. When this occurs it may be possible to produce special sections subject to there being sufficient quantity and adequate time.

Profile Index




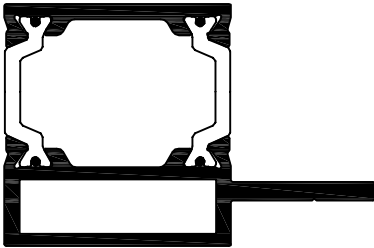
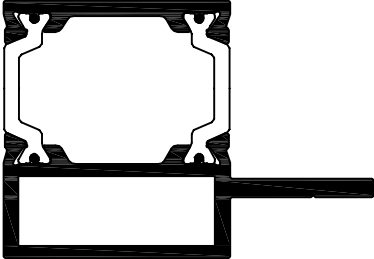
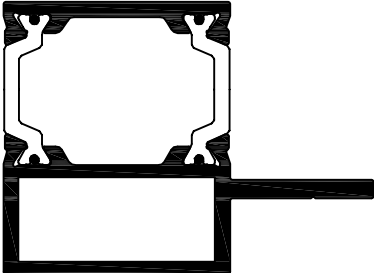


System 17

SP
CURTAIN WALLING

Profile illustration

Section Properties

ILLUSTRATION DIMENSIONS	SHEET REF NUMBER	COMPUTER REF NUMBER	EXTERNAL PERIMETER mm
	Sheet SP/1/10	HR50177	86
 HR50177	Sheet SP/1/10	HR50194	90
 HR50194	Sheet SP/1/10	HR50195	94
 HR50195	Sheet SP/1/10	SP01	148
	Sheet SP/1/10	SP04	92
 SP0104	Sheet SP/1/10	SP02	152
	Sheet SP/1/10	SP04	92
 SP0204	Sheet SP/1/10	SP03	156
	Sheet SP/1/10	SP04	92
 SP0304			

Scale 1:1




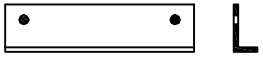







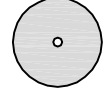
SHEET SP / 0 / 20
rev 4 21/01/09


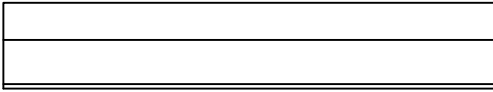

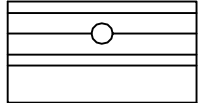

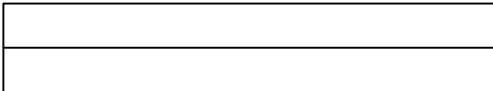

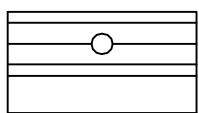

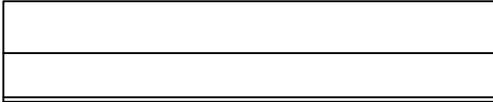

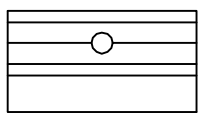
Component Identification



System 17

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 SP
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 <p>XR004</p> <p>SP30 - Cut @ 6.6mm SP31 - Cut @ 8.6mm SP32 - Cut @ 10.6mm</p> <p>CORNER CLEATS (BONDED JOINT - PERIMETER)</p>	 <p>PTS14</p> <p>HR50139 - Cut @ 40.6mm</p> <p>CORNER CLEAT (CRIMPED JOINT - SASH)</p>	 <p>TT15</p> <p>HR50141 - Cut @ 34.3mm HR50140 - Cut @ 27.7mm</p> <p>CORNER CLEATS (CRIMPED JOINT - OUTER FRAME)</p>	 <p>HR50138 SETTING BLOCK SUPPORT ANGLE</p>
 <p>O60B WEATHERSEAL</p>	 <p>CA29 WEDGE GASKET</p>	 <p>HR50104 GLAZING SUPPORT</p>	 <p>HR50166 GLAZING SUPPORT</p>
 <p>SELF ADHESIVE TAPES</p> <p>4mm - HR50136 8mm - HR50184</p>	 <p>HR50107 BLACK POZIDRIVE SCREW</p>	 <p>HR50108 ALUMINIUM PRESSURE DISC</p>	 <p>HR50109 PRESSURE DISC GASKET</p>

<p>HR50177</p>   <p>HR50179 (130mm) D.G.U. INSERT</p>	<p>SP15</p>   <p>SP25 (50mm) GLAZING LUG</p>
<p>HR50194</p>   <p>HR50196 (130mm) D.G.U. INSERT</p>	<p>SP16</p>   <p>SP26 (50mm) GLAZING LUG</p>
<p>HR50195</p>   <p>HR50197 (130mm) D.G.U. INSERT</p>	<p>SP17</p>   <p>SP27 (50mm) GLAZING LUG</p>

Not to scale

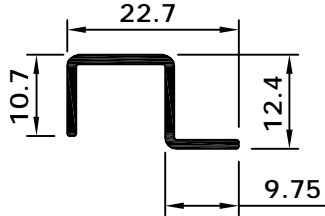
Section Drawings



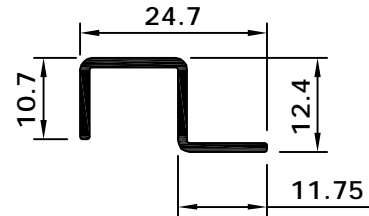
System 17

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 CURTAIN WALLING

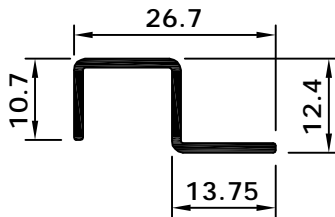
HR50177
 D.G.U. INSERT



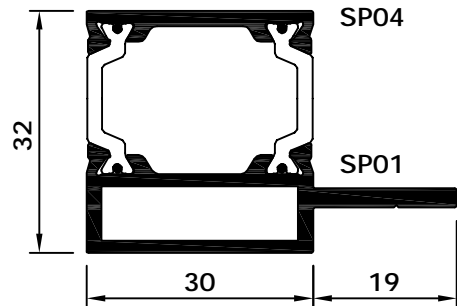
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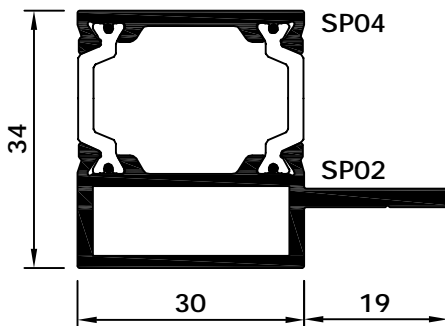
HR50195
 D.G.U. INSERT



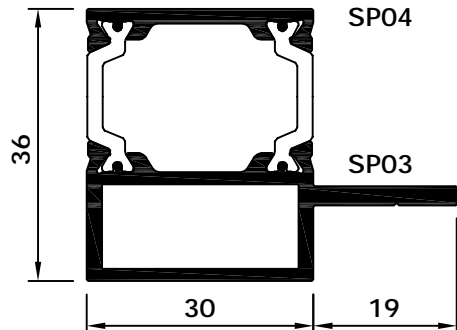
SP0104
 32mm GLAZING PERIMETER SECTION



SP0204
 34mm GLAZING PERIMETER SECTION



SP0304
 36mm GLAZING PERIMETER SECTION



Scale 1:1

General Arrangement

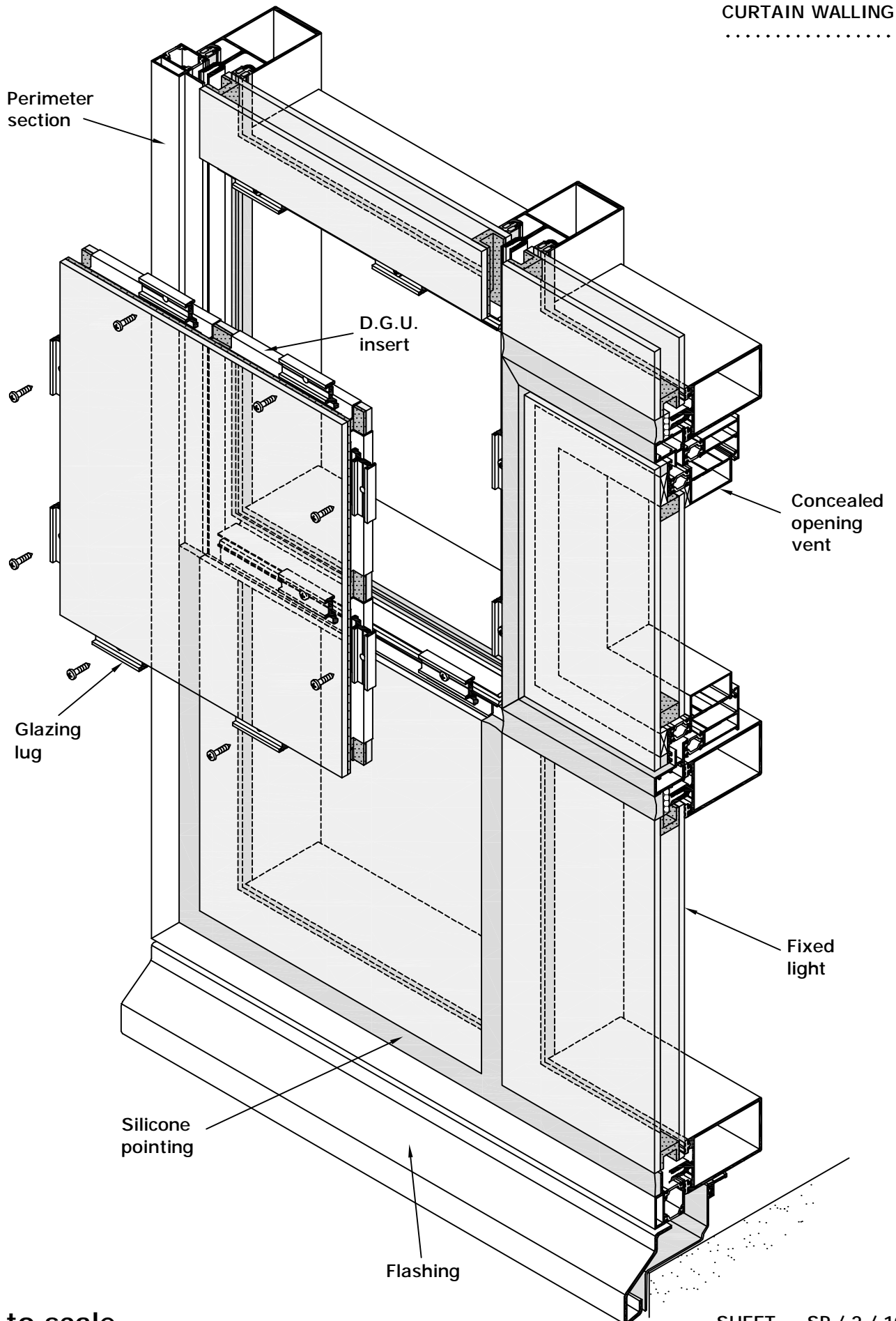
3-Dimensional Assembly Detail

Refer to System 17 Curtain Walling manual for grid assembly.



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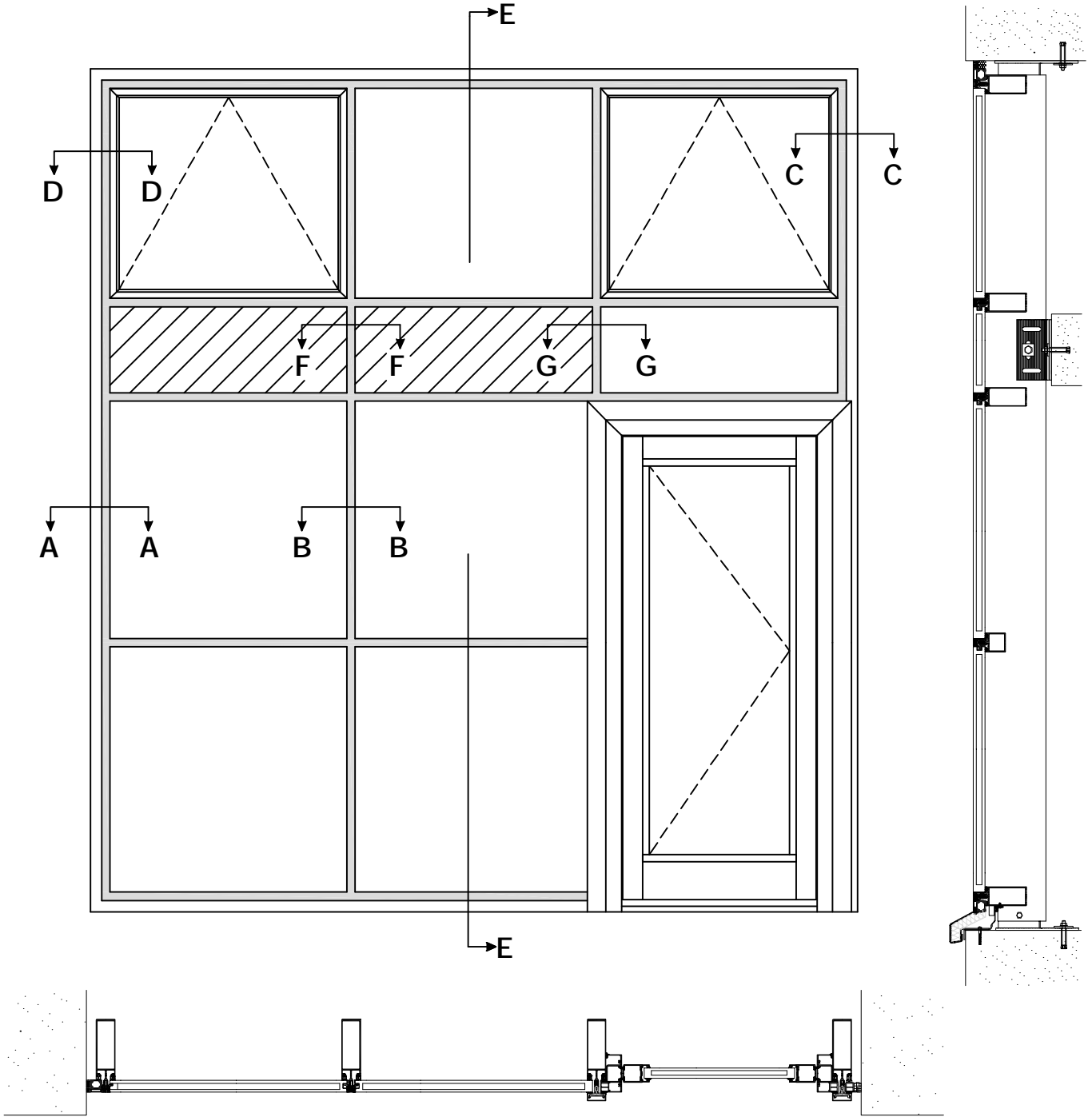
Not to scale

Typical Elevation



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Doors may be incorporated into the SP Curtain Walling and are required to be restrained using pressure plate and cover cap with mitred corners. Refer to System 17 Latitude for door insert details.

Not to scale

SHEET SP / 2 / 20
rev 12 18/11/09

General Arrangement

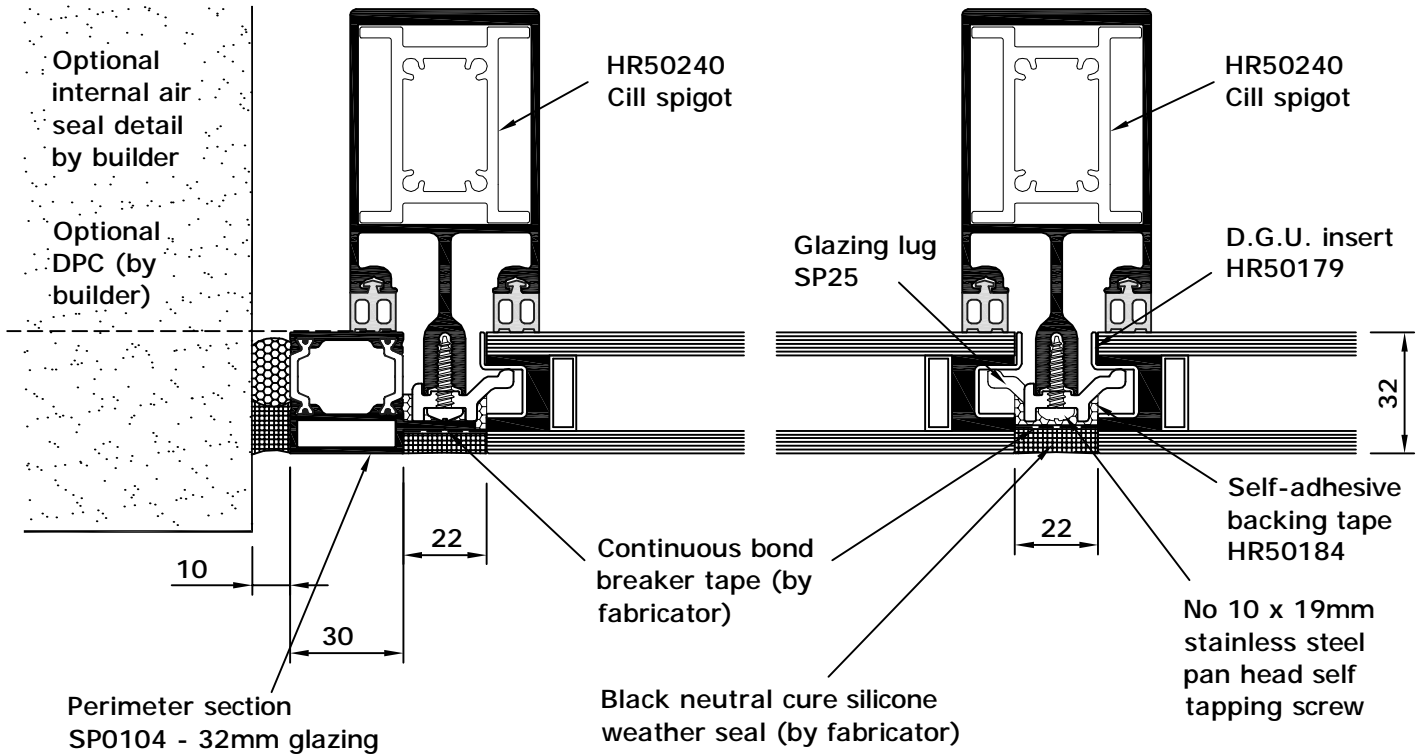
Jamb and Intermediate Mullion Details

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System 17

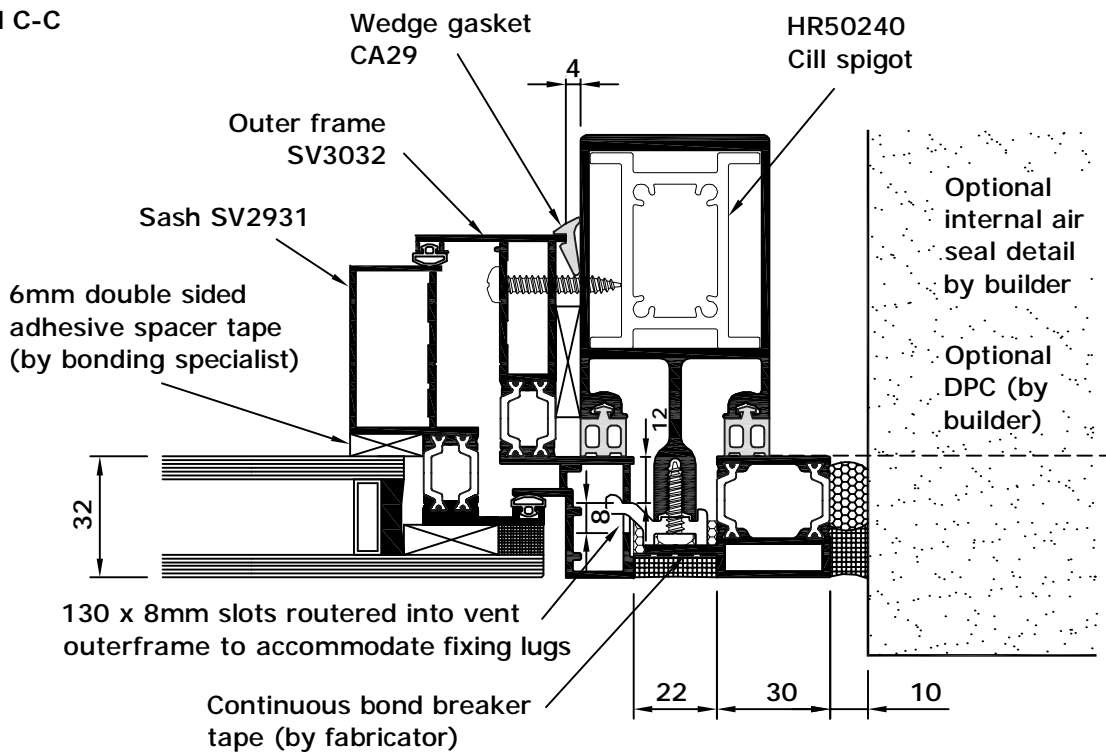
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 SP
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SECTION A-A

SECTION B-B



SECTION C-C



Scale 1:2

SHEET SP / 2 / 30
 rev 12 18/11/09

General Arrangement

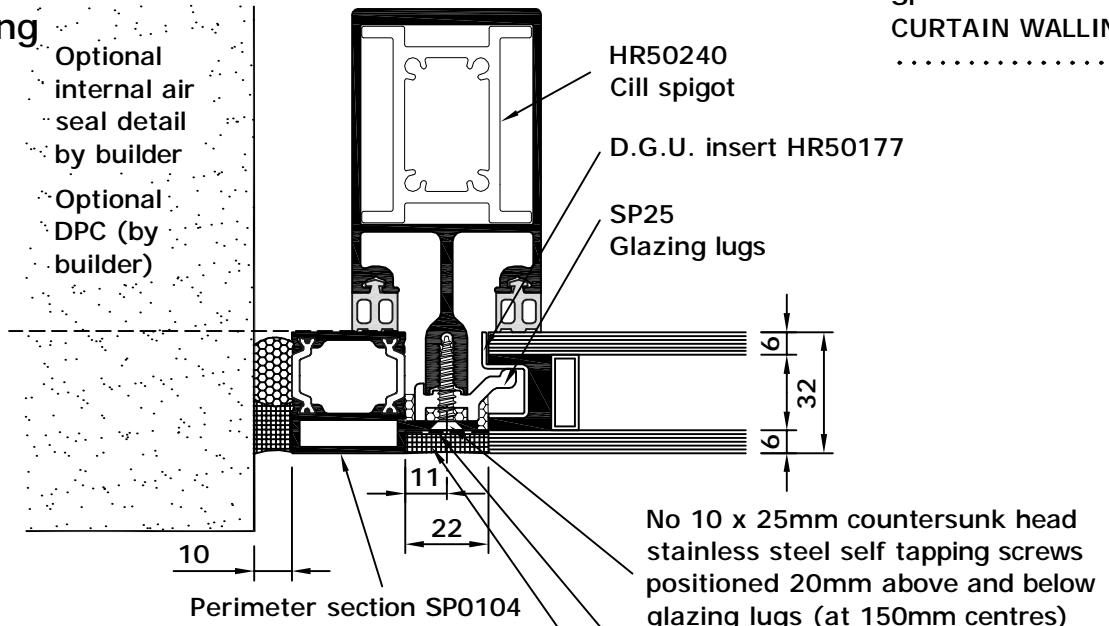
Alternative Jamb Details



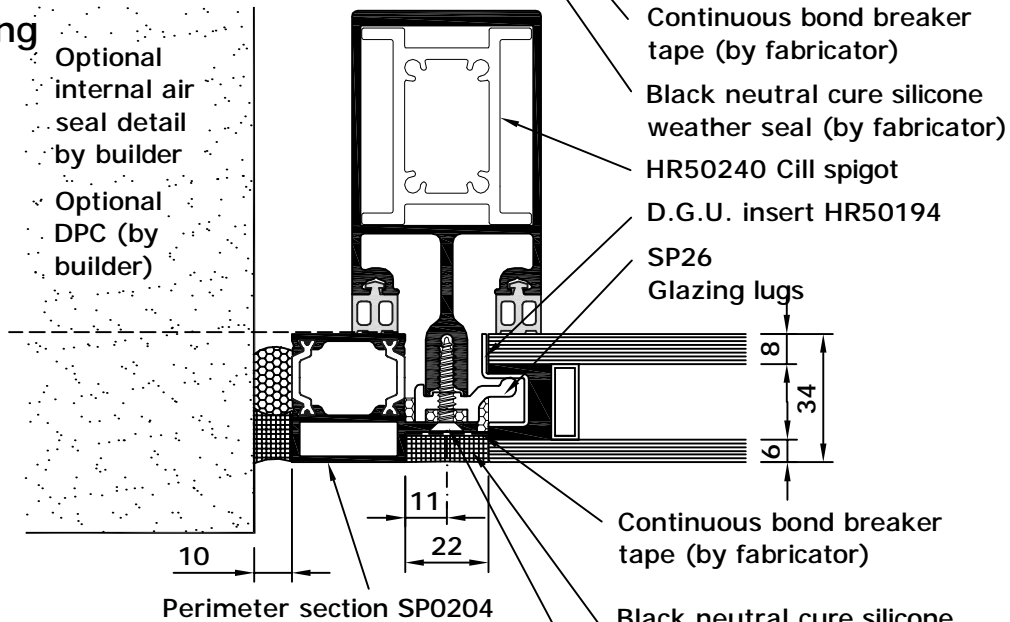
System 17

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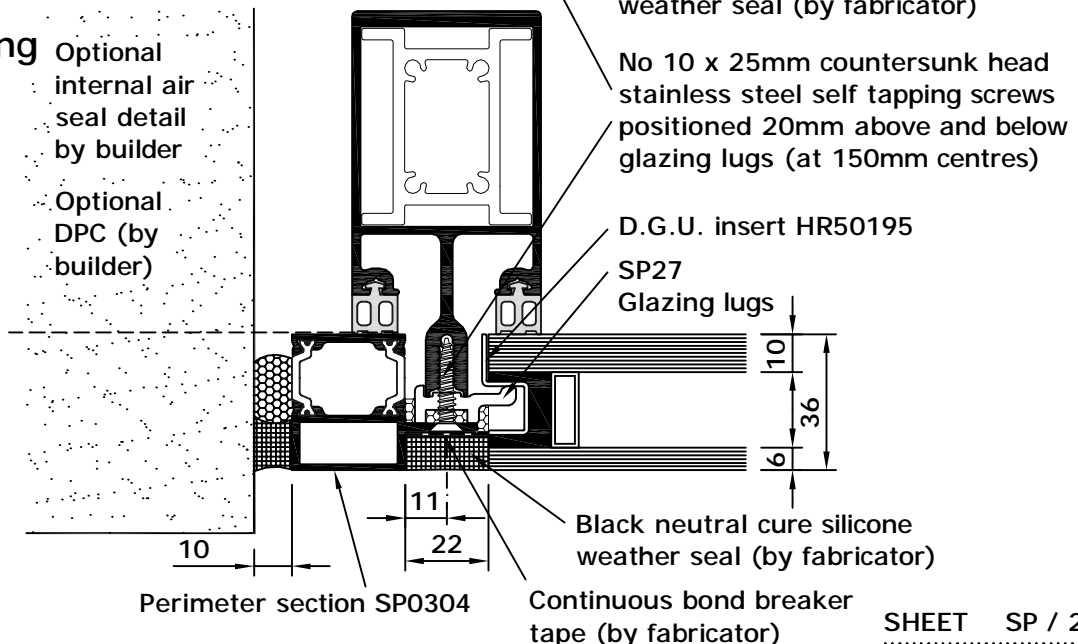
SECTION A-A 32mm Glazing



SECTION A-A 34mm Glazing



SECTION A-A 36mm Glazing



Scale 1:2

SHEET SP / 2 / 40
 rev 9 18/11/09

General Arrangement



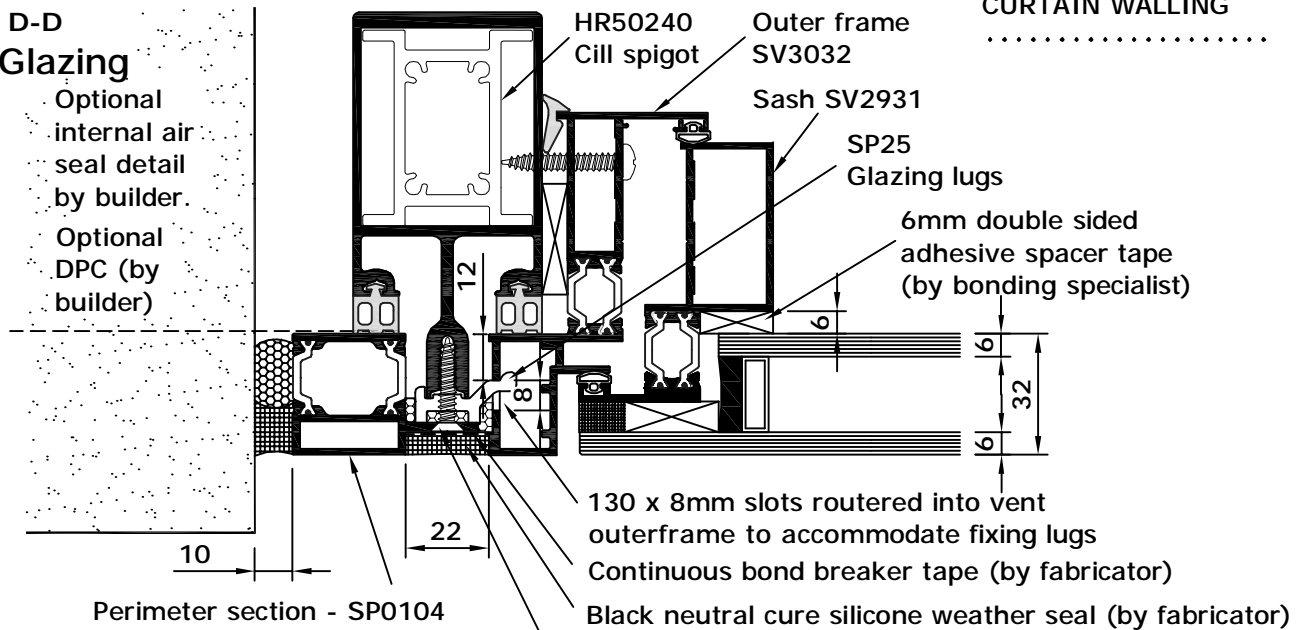
System 17

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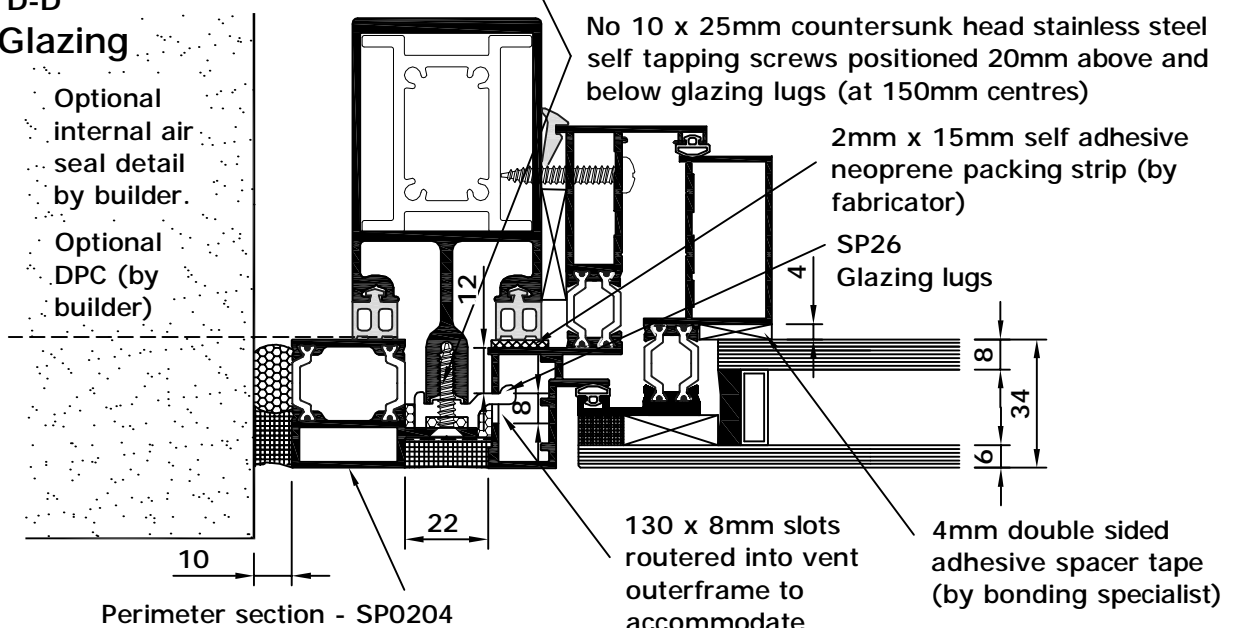
Alternative Jamb Details

Please be advised that the concealed vent is not suitable for use with mullion HR5000, or transoms HR5009, HR5010, HR50410, or with System 8 profile CW02A.

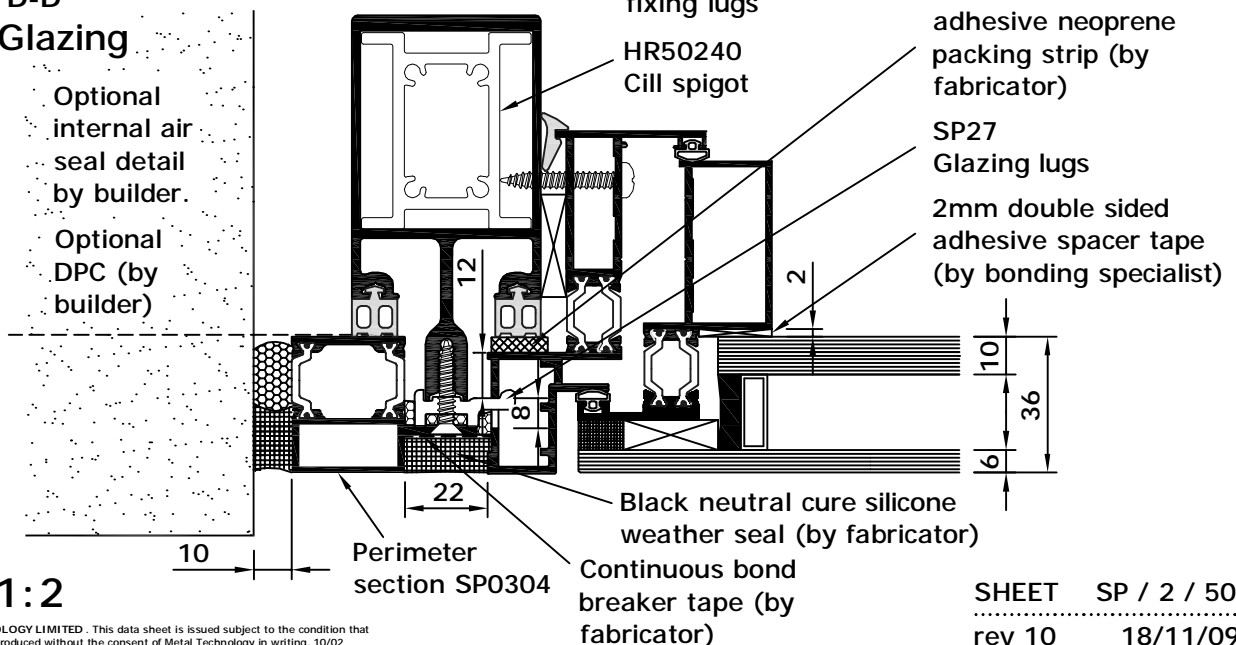
SECTION D-D 32mm Glazing



SECTION D-D 34mm Glazing



SECTION D-D 36mm Glazing



Scale 1:2

General Arrangement

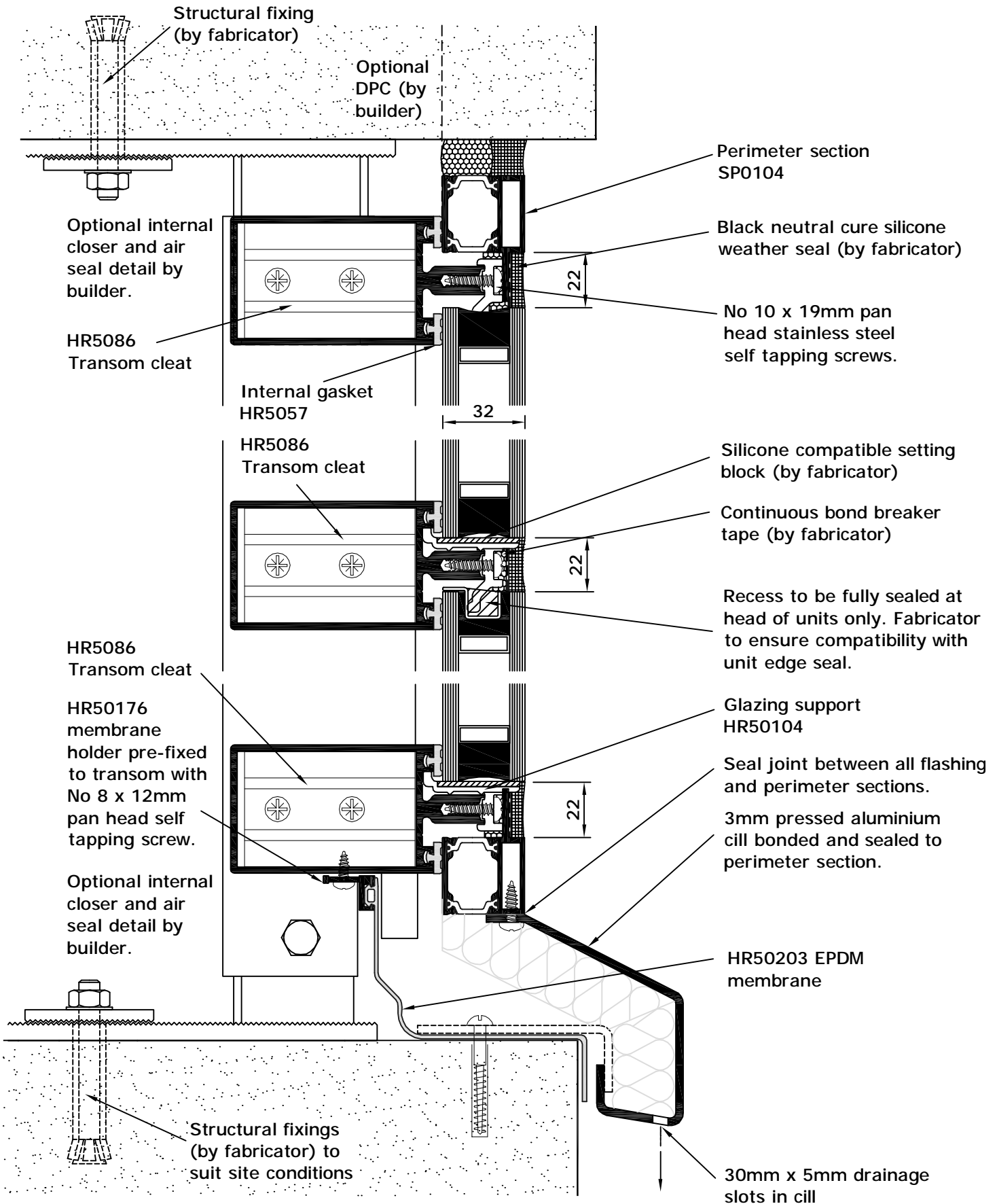
Head, Cill, and Intermediate Transom Details



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SECTION E-E



Scale 1:2

SHEET SP / 2 / 60
rev 7 04/11/09

General Arrangement

Panel Insert Details

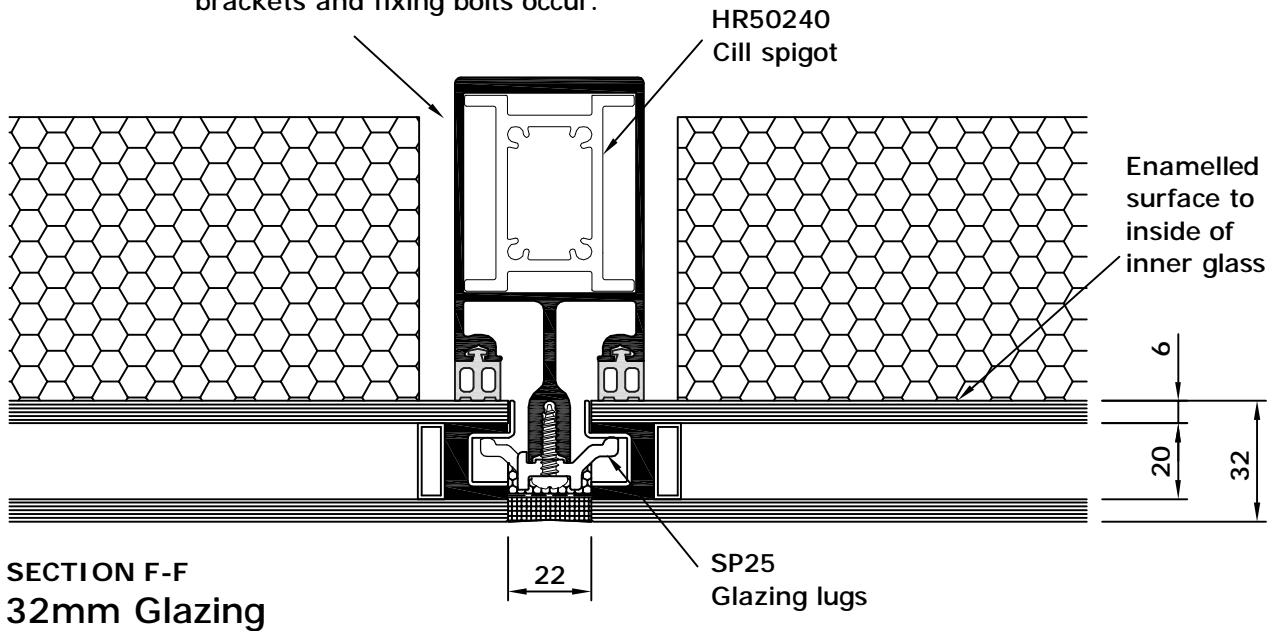


System 17

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Look-alike panel

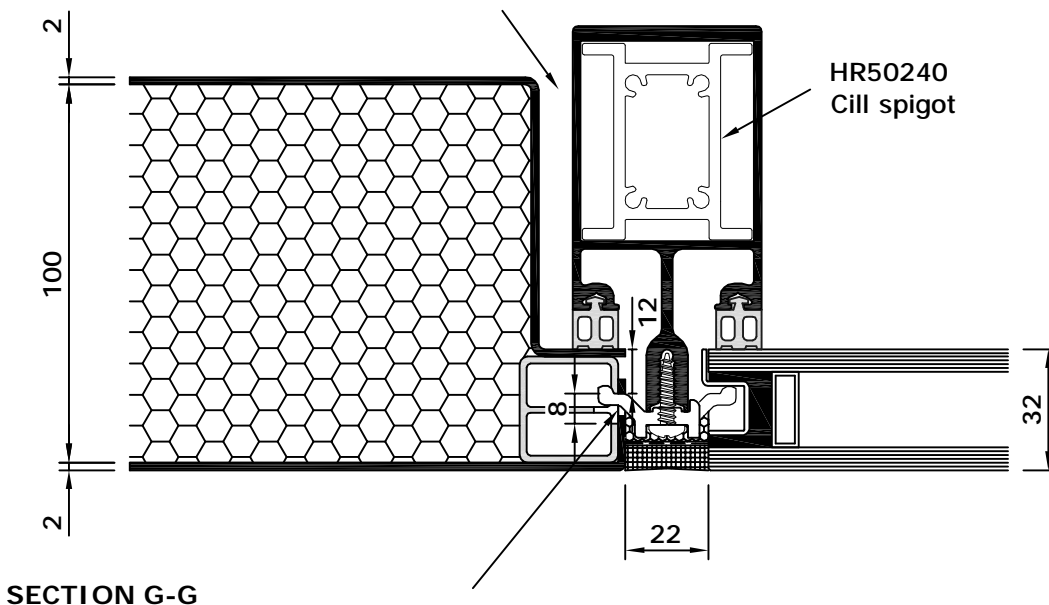
Allow adequate clearance to perimeter of panels where fixing brackets and fixing bolts occur.



Alternative Metal Panel Detail

Panel construction, including edge detail, to manufacturers recommendations to suit glazing thickness and application.

Allow adequate clearance to perimeter of panels where fixing brackets and fixing bolts occur.



Intermittent 130mm long slots cut into folded edge of panel and HR50112 edge spacer to accommodate toggle fixings

Scale 1:2

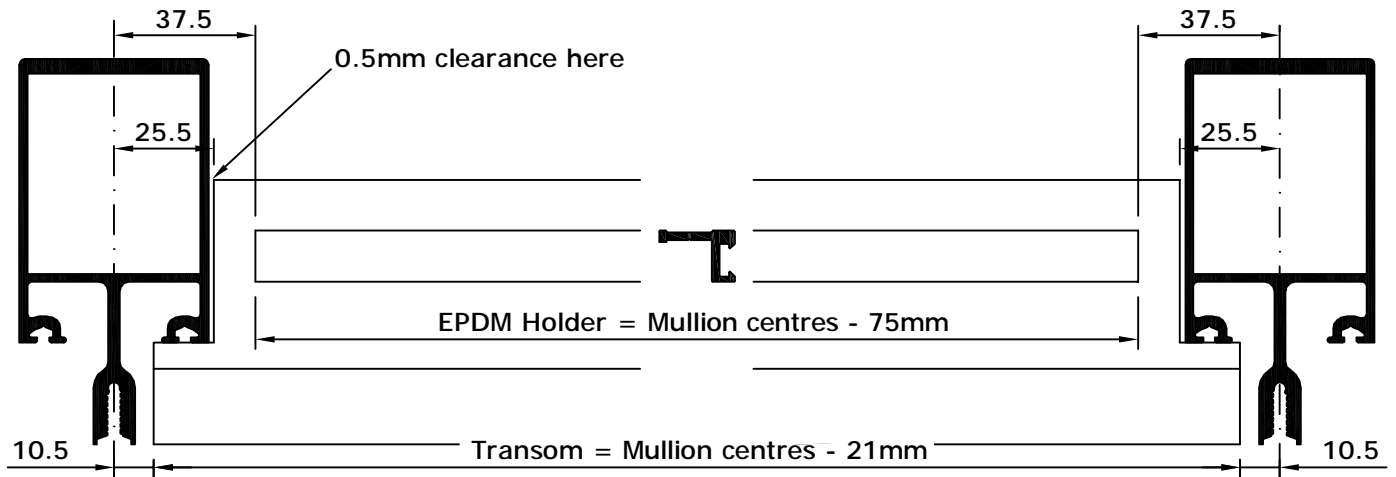
SHEET SP / 2 / 70

rev 4 18/11/09

Information on the general fabrication of curtain walling grid is provided in the System 17 manual. Only the relevant fabrication details for the SP System are listed below. Where details are provided in other curtain walling manuals, but not itemised in the following list, they are not applicable.

Sheet Title

General Notes	Refer to System 17
Fabrication Information	Refer to System 17
System 17 Checklist	Refer to System 17
Glass and Fabrication Sizes	Refer to section 3 of this manual
Head and Cill Prep Details	Refer to System 17
Cill Spigot Details	Refer to System 17
Mullion Preps for Extruded Cleats	Refer to System 17
Mullion Preps for Cast Spring Loaded Cleats	Refer to System 17
Mullion Preps for Extruded Spring Loaded Cleats	Refer to System 17
Mullion to Transom T-junction	Refer to Latitude manual
Transom End Preps	Refer to System 17
Cast Spring Loaded Cleat Installation	Refer to System 17
Extruded Spring Loaded Cleat Installation	Refer to System 17
Glass to Glass Corner Support Details	Refer to Latitude manual for general information
Perimeter Section Details	Refer to section 3 of this manual
Perimeter Section Corner Assembly Detail	Refer to section 3 of this manual



Cutting Sizes - Verticals

- | | |
|--------------------|--|
| Mullions | • Square cut to suit site conditions. |
| Perimeter sections | • Total transom centres + 82mm with 45° mitre both ends. |

Cutting Sizes - Horizontals

- | | |
|--------------------|--|
| Transoms | • Mullion centres - 21mm with ends notched. |
| EPDM Holder | • Mullion centres - 75mm with ends cut square. |
| Perimeter sections | • Total mullion centres + 82mm with 45° mitre both ends. |

Glazing

Glass/panels/window inserts: Mullion/transom centres - 22mm.

Where other Metal Technology systems are to be incorporated in the curtain walling, then the relevant manuals must be consulted.

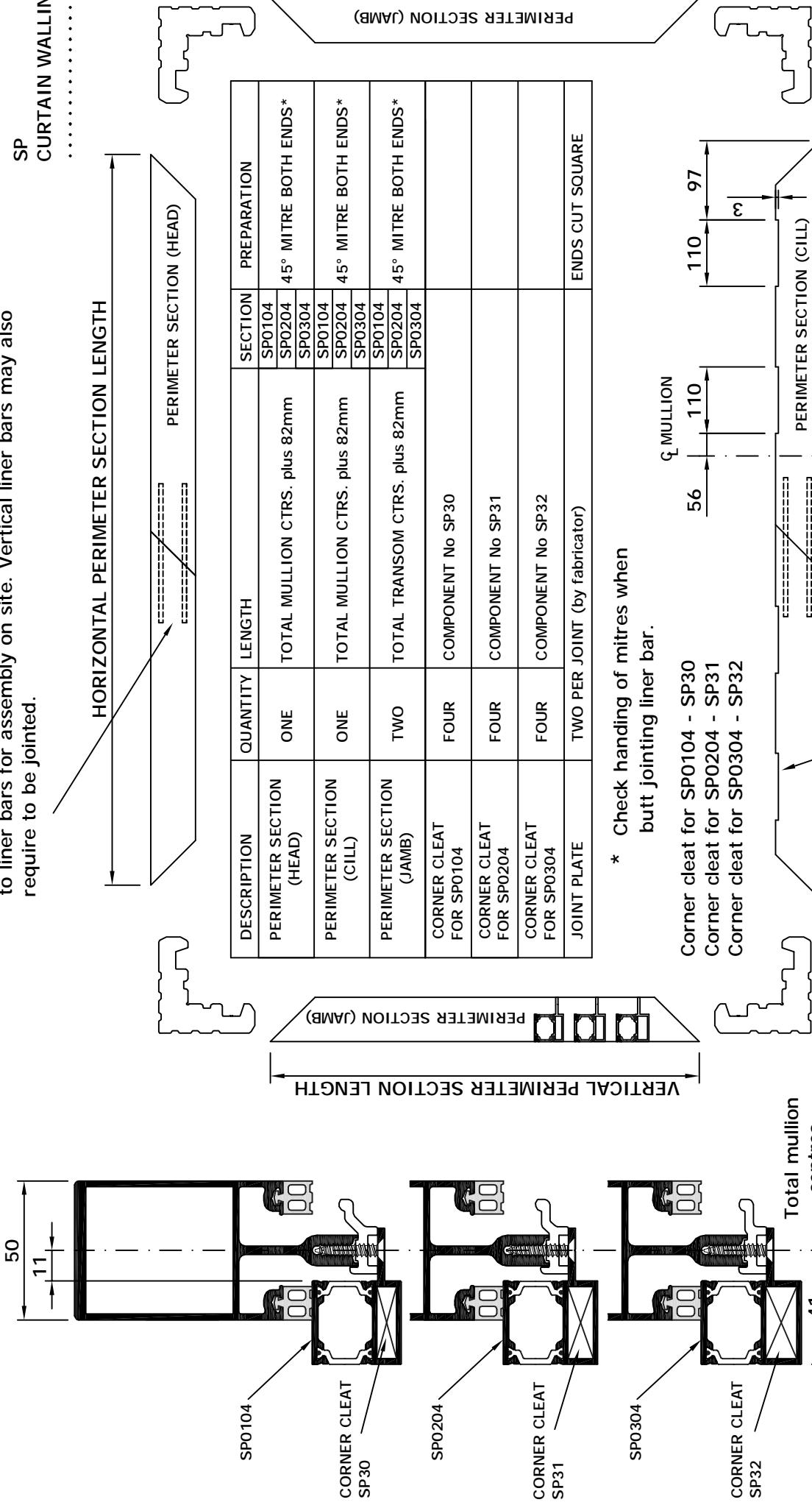
Perimeter Section Details Fabrication and Cutting Sizes



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Joint plates (by fabricator) in bars as required to be screwed to liner bars for assembly on site. Vertical liner bars may also require to be jointed.



* Check handing of mitres when butt jointing liner bar.

Corner cleat for SP0104 - SP30
Corner cleat for SP0204 - SP31
Corner cleat for SP0304 - SP32

Perimeter Section at cill to be cut-away 3mm x 110mm to clear glazing supports.

Ø10mm
10mm Ø drainage holes at 1m centres.

Not to scale

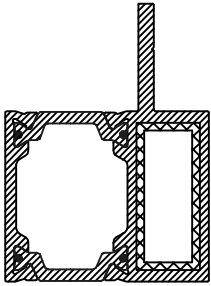
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Perimeter Section Corner Assembly Detail

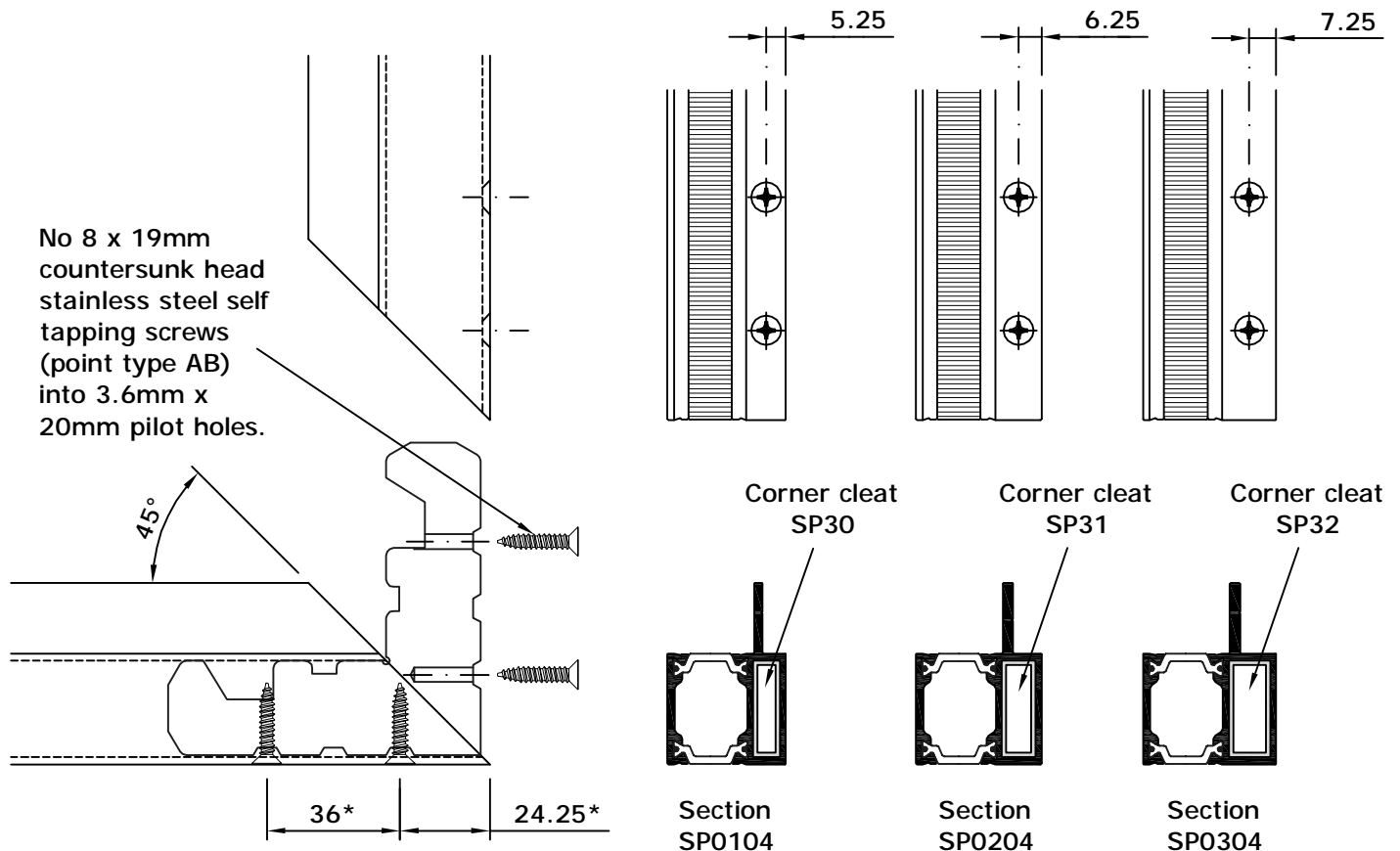
IMPORTANT: PLEASE READ THESE NOTES BEFORE CORNER ASSEMBLY

METAL TECHNOLOGY RECOMMEND THE USE OF PNEUMATIC CRIMPERS, AND ADHESIVE TO ENSURE THE STABILITY OF CORNER JOINTS.

SMALL JOINT SEALANT



1. Before applying any sealant/adhesive ensure all surfaces to be glued are free from grease or dust. Clean all aluminium mating surfaces with metal cleaning agent.
2. Apply suitable sealant/adhesive to the mating surfaces of the mitre cut aluminium and thermal break profiles. Sealant/adhesive need only be applied to one side of the mitred joint.
3. Insert corner cleat and push sections together. Ensure mitred joint is aligned and true. Screw fix the assembled mitred corner (seal screws with silicone).
4. Wipe away any excess glue/sealant from the mitred joint using a suitable cleaning agent.
5. Check the mitre is tight on both sides and that there is no movement.



*Pilot hole dimensions to be checked and adjusted to give a tight mitre.

ADHESIVE



Adhesive should be applied to the perimeter of the cleat chamber of the perimeter sections.

Not to scale

Curtain Walling Inserts



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The following products can be inserted within System 17 SP Curtain Walling:

System 5-20D Door	Refer to System 5-20D Door Manual
System 5-20TS Tilt and Slide Door	Refer to System 5-20TS Tilt and Slide Door Manual
System 10 Commercial Door	Refer to System 10 Commercial Door Manual
Concealed Vents	Refer to System 17 Latitude manual*

Other products may also be inserted within this curtain walling system. Refer to Metal Technology's Technical Department for further information.

When incorporating doors into this system they must be retained using pressure plate and cover cap to their perimeter, and mitred at the corners. The concealed fixing toggles must be omitted at the edge of the double glaze units adjacent to the doors, to allow the thermal isolator, pressure plate, and cover cap to be fitted.

* For drip rail details in concealed vent applications refer to section 4 of this manual.

Drip Rails



System 17

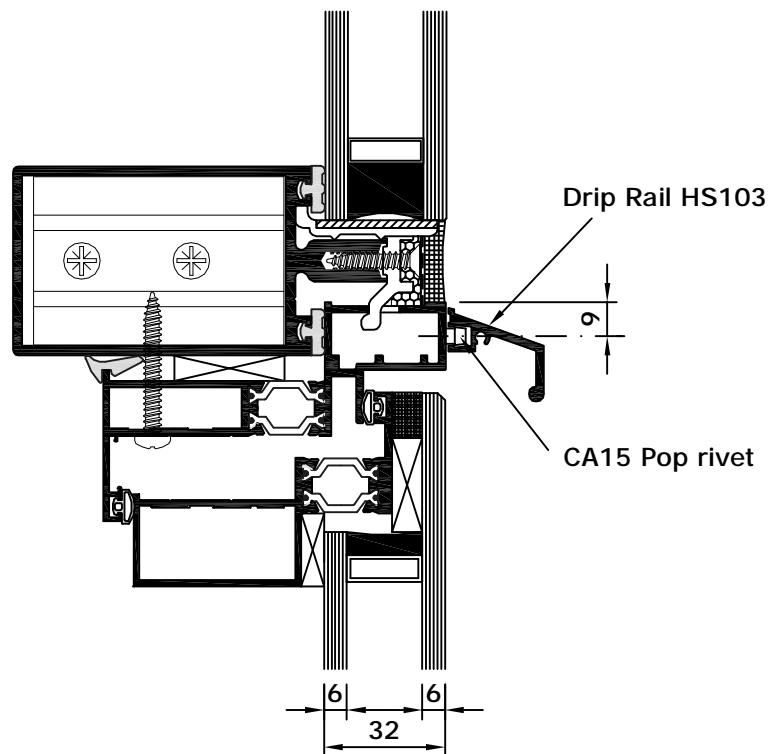
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In exposed applications drip rail HS103 should be secured centrally above the concealed vents as shown.

Drip rail length = Mullion centres - 22mm

A series of 3mm pilot holes should be drilled, commencing 75mm in from each end of the drip rail and at intervals not exceeding 250mm centres to accept the CA15 drip rail pop rivets.

When the rivets are in place a bead of silicone should then be applied to the silicone groove extruded in the drip rail. The drip rail is then push-fitted over the rivets.



Scale 1:2

Installation and Assembly



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Information on the general installation of the curtain walling grid is provided in the System 17 manual. Only the relevant installation details for the SP System are listed below. Where details are provided in other curtain walling manuals, but not itemised in the following list, they are not applicable.

General Installation Information	Refer to System 17
Installation Procedure	Refer to System 17
Transom End Seal Application	Refer to System 17
HR50113 Expansion Sleeve Detail	Refer to System 17

Glazing Procedure



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This system has been designed to be a front-sealed system. To retain a water-tight seal all silicone must be applied and maintained in strict accordance with manufacturers details.

1. Clean gasket races and mounting surfaces. Ensure glazing cavity is clean and free from debris and swarf.
2. Check that the gaskets are clean and in a relaxed condition. If gaskets have been stretched they should be left for a sufficient period to allow them to return to their natural state. Where gaskets are found to be short they should be replaced with ones that are cut 1-3% oversized, and compacted in place.
3. Push fit internal gaskets into mullions and transoms. If required, insert vulcanised corners. If the gaskets show visible imperfections, such as cuts or abrasions, they should be changed. Refer to "Internal Gasket Details" sheets in the System 17 manual.
4. Using suitable sealant seal all gasket to gasket joints as required.
5. Insert glazing supports and setting blocks in accordance with "Glazing Support" sheet in System 17 manual and BS 6262.
6. Clean the perimeter of the glass and check for any imperfections and/or damage.
7. Insert the glass, panels or inserts and centralise within the frame. Correct spacing of the double glazed units is essential. The 22mm gap between units must not vary by more than ± 1 mm. Check perimeter details on contract drawings and insert DPC's/DPM's, perimeter infils/closer channels and flashings, as required. When inserting other Metal Technology products refer to the relevant system literature.
8. Glass, panels, infils and perimeter details may be temporarily held in position using 100mm cuttings of pressure plate and gasket at approximately 600mm centres. Units held in position using temporary pressure plates should not be left unattended on site or used during inclement, exposed or windy conditions.
9. Clamp glass in position using glazing lugs into the aluminium inserts bedded into edge sealant of double glazed unit and screw fix using torque setting as described below. See sheet "Installation of Concealed Fixing Lugs" for details.
10. Set torque for glazing lug screws to 3.5Nm. Torque settings should be determined by inserting a screw using a calibrated manual torque wrench. Once the torque has been set with a manual wrench adjust the setting on your drill to match. Do not set torque using predetermined settings on drill. Regularly check torque using calibrated manual wrench and re-adjust drill settings accordingly. Once torque has been checked mark screws with paint and do not re-check. Screws will relax; constantly checking and tightening the torque will damage them or cause them to shear.
11. Once correct torque has been applied ensure that the glazing lugs force the glass onto the internal gasket and are not loose.
12. Quality of sealant application: In the absence of a relevant British Standard for the quality of finish to silicone pointing, Metal Technology recommend that the fabricator should agree with the client a method of inspection (i.e. - the method for visual inspection after anodising in BS 3987, or powder coating BS EN 12206 or BS 6496), and/or propose a sample area of the screen for inspection and approval prior to continuing on site.
13. Clean all surfaces to which silicone pointing is to be applied. Apply self-adhesive backing tape to nose of curtain walling mullion, to run between lugs. Apply bond breaker tape continuously over backing tape and lugs horizontally and vertically. Seal with a neutral curing black silicone.
14. Tool sealant to achieve acceptable finish and ensure correct adhesion. Particular attention should be paid to the cruciform junctions. All silicone sealants must be applied in strict and full accordance with the sealant manufacturers recommendations.
15. Apply a suitable seal/sealant to the perimeter of the frame as per the contract drawings and in accordance with sealant manufacturers recommendations and instructions. Locally remove any 'low tack' tape which may interfere with the application of the sealant or damage it if removed at a later stage. Tool sealant to achieve acceptable finish and ensure correct adhesion.

Glazing Specification



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Double glazed unit manufacturers must guarantee the structural integrity, performance and suitability of each unit on a project-by-project basis. The following pages contain the minimum specification suggested by Metal Technology and must be read in conjunction with the double glazed unit suppliers recommendations. Where any conflict arises Metal Technology's Technical Department must be consulted.

Construction

All double glazed units shall be dual sealed using a primary and secondary seal and manufactured with a black silicone compatible sealant that will not degrade when exposed to UV light. External silicone pointing must be compatible with all unit edge seals. As only the inner pane of glass is mechanically restrained the double glazed units MUST be structurally sealed/bonded so as to ensure the outer pane is adequately secured. Special consideration must be given to the edge seal detail when using concealed fixings.

Design

All structurally sealed joints and unit edge seals must be designed in accordance with the sealant manufacturers recommendations and the relevant standards (eg BS EN 13022-1). Unit manufacturer to ensure correct silicone bite size to suit application. As double glazed units are not 4-edge supported and therefore outside the remit of BS 6262, advice must be sought from the appropriate technical authority regarding the structural capability, suitability, warranty and guarantee of the proposed glass/double glazed units.

Manufacture

All seals and structural seals MUST be applied under factory conditions in accordance with BS 5713. Full records of the conditions of manufacture must be recorded using a fully traceable QA system, enabling failed units to be traced back to a specific manufacturing batch.

Glass

All glass used for the double glazed units shall be of good commercial quality in accordance with BS 952 and the relevant sections of BS EN 572.

The inner panes of fixed lights are to be toughened glass, with the optional recommendation of further heat soak testing to BS EN 14179, if required. All edges shall be cleanly cut and free from edge damage likely to cause the unit to fail in service.

All exposed edges MUST be ground to give a minimum arris of 0.5mm x 0.5mm.

All double glazed units shall be designed to achieve the necessary level of safety in accordance with the provision of BS 6262 pt.4, BS 6206, local building regulations or other relevant standards if more onerous.

Coated glasses (such as Pilkington Activ glass) should not be used without prior consultation and approval from the glass manufacturer.

The suitability of laminated glass to the vents should be discussed and approved by the unit supplier and structural sealant applicator prior to manufacture.

Edge preparations

Metal Technology suggest that the edges of the outer pane of the double glazed unit are opacified to prevent 'read through' of the edge spacer and sealant. The method of achieving this shall be agreed with the double glazed unit manufacturer. Samples of the edge opacification should be submitted to the client/architect for approval prior to manufacture.

Glass coatings may need to be removed locally where silicone bonding occurs, as recommended by the structural sealant supplier.

Edge spacer

All edge spacer bars to be black anodised to all surfaces. The position of the edge spacer shall not vary from the nominal design position by more than ± 1 mm. The fabricator shall endeavour to agree tighter tolerances where possible.

Double glazed unit thickness

The system has been designed to accommodate 32mm, 34mm and 36mm units with specific glass and cavity combinations. If alternative unit thicknesses are being considered, prior approval/confirmation must be obtained from Metal Technology's Technical Department.

The double glazed unit tolerance shall be:

Thickness: $+1.0\text{mm}/-0.0\text{mm}$
Height and width: $\pm 1.0\text{mm}$

Concealed fixing applications

All four sides of the double glazed unit must be recessed to accommodate the extruded aluminium D.G.U. inserts. See "Positions of Aluminium D.G.U. Inserts" and "Glazing Requirements" sheets. Note - double glazed units must not be stacked on the D.G.U. inserts. Structural stability, warranty and guarantee of units to be confirmed by unit manufacturer as suitable for this type of application.

Frameless vent applications

Units for use within frameless vent applications shall be stepped at head, cill and jambs as shown. Outer pane must be 6mm in all situations.

Structural sealant application

The glazing units shall be bonded under controlled factory conditions by an approved specialist in accordance with the guidelines set out in EN 13022 and the sealant manufacturers recommendations.

Glazing Requirements



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Double glazed unit manufacturers must guarantee the structural integrity, performance and suitability of each unit on a project-by-project basis.

If glazing thickness is not listed below it currently is not achievable using existing components.

Fixed pane glazing requirements

Unit thickness	Inner pane	Air space	Outer pane	Perimeter section	Lug	D.G.U. insert	Backing tape	Bond breaker tape	Glazing support	Compatible with vents
32mm	6	20	6	SP0104	SP25	HR50179	HR50184	By fabricator	HR50104	Yes
34mm	6	20	8	SP0204	SP25	HR50179	HR50184	By fabricator	HR50104	No
34mm	8	20	6	SP0204	SP26	HR50196	HR50184	By fabricator	HR50104	Yes
36mm	6	20	10	SP0304	SP25	HR50179	HR50184	HR50136	HR50166	No
36mm	10	20	6	SP0304	SP27	HR50197	HR50184	HR50136	HR50166	Yes
36mm	8	20	8	SP0304	SP26	HR50196	HR50184	HR50136	HR50166	No

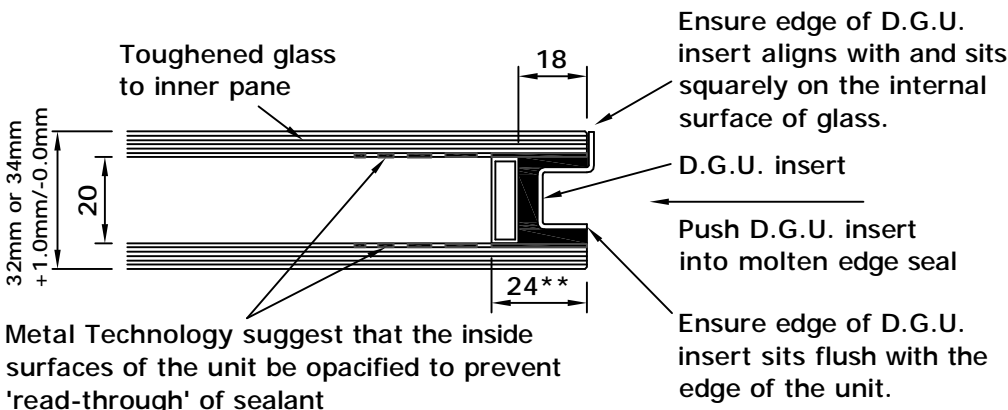
Opening light glazing requirements

Unit thickness	Inner pane	Air space	Outer pane	Packing strip (by fabricator)	Backing tape	Bond breaker tape	External Joint	Glazing support
32mm	6	20	6	Not required	HR50184	By fabricator	Black silicone (by fabricator)	HR50104
34mm	8	20	6	2mm x 15mm	HR50184	By fabricator	Black silicone (by fabricator)	HR50104
36mm	10	20	6	4mm x 15mm	HR50184	By fabricator	Black silicone (by fabricator)	HR50104

When the vent outer frame is adjacent to a "perimeter section" in a concealed glazing application it must be prepped to accommodate the appropriate glazing lugs. See "General Arrangement - Alternative Jamb Details" sheet.

For opening light fabrication details refer to the System 17 Latitude manual.

Fixed pane perimeter detail - Concealed fixing



** Nominal depth of edge detail. If depth of edge seal needs to be increased for structural reasons prior approval must be obtained.

Metal Technology suggest that the inside surfaces of the unit be opacified to prevent 'read-through' of sealant

All edges to be ground to give minimum arris of 0.5mm x 0.5mm

Positions of Aluminium D.G.U. Inserts



System 17

SP
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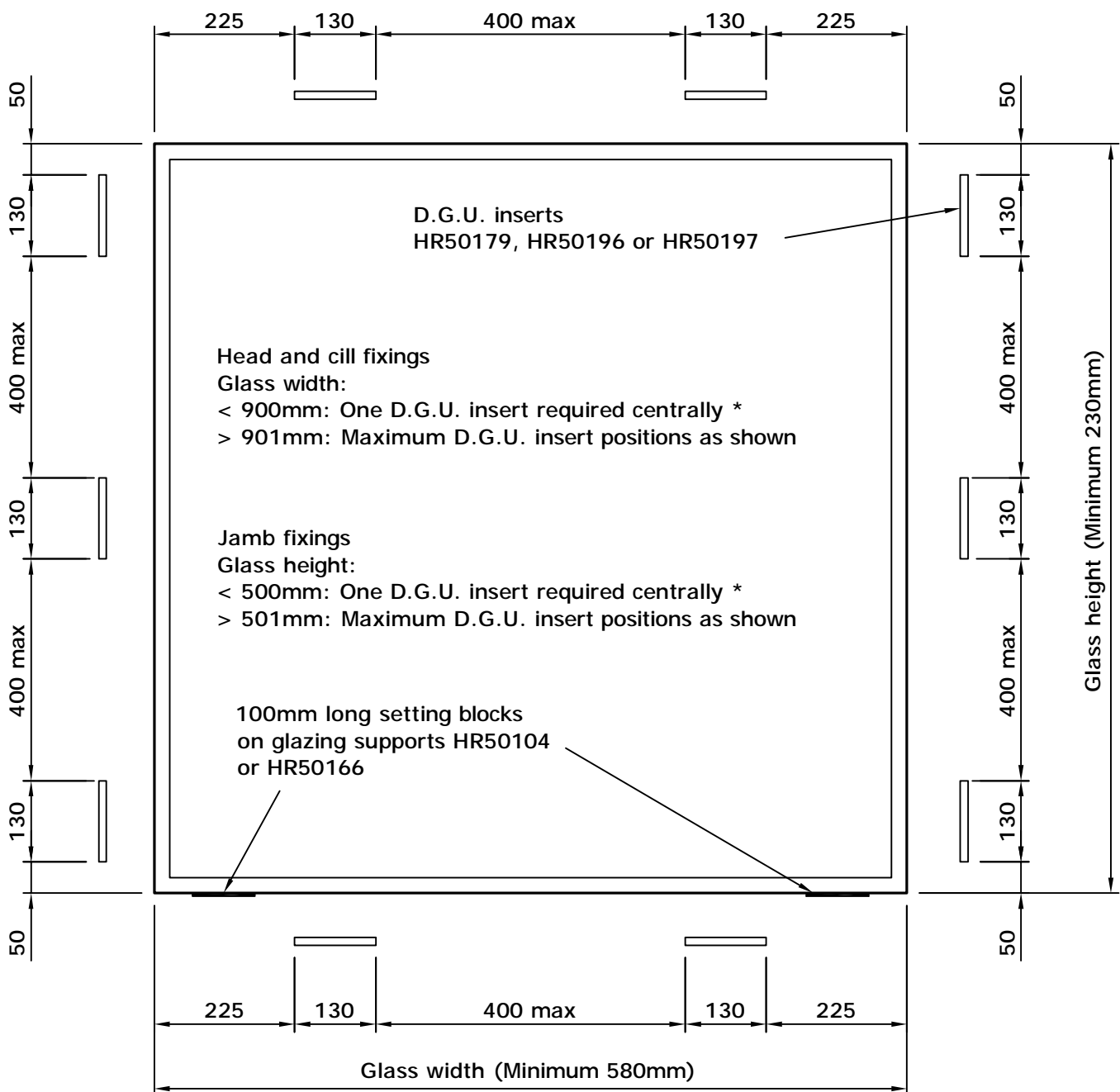
D.G.U. inserts to align with inserts on adjacent panes.

Ensure edge of unit is fully filled between D.G.U. inserts.

Secure double glazed units using glazing lugs SP25, SP26 or SP27.

See sheet 'Installation of Concealed Fixing Lugs' for glazing lug positions and application to D.G.U inserts.

All panes must have a minimum of four fixings, * one per side.



Not to scale

SHEET SP / 6 / 40

rev 0 21/01/09

Installation of Concealed Fixing Lugs

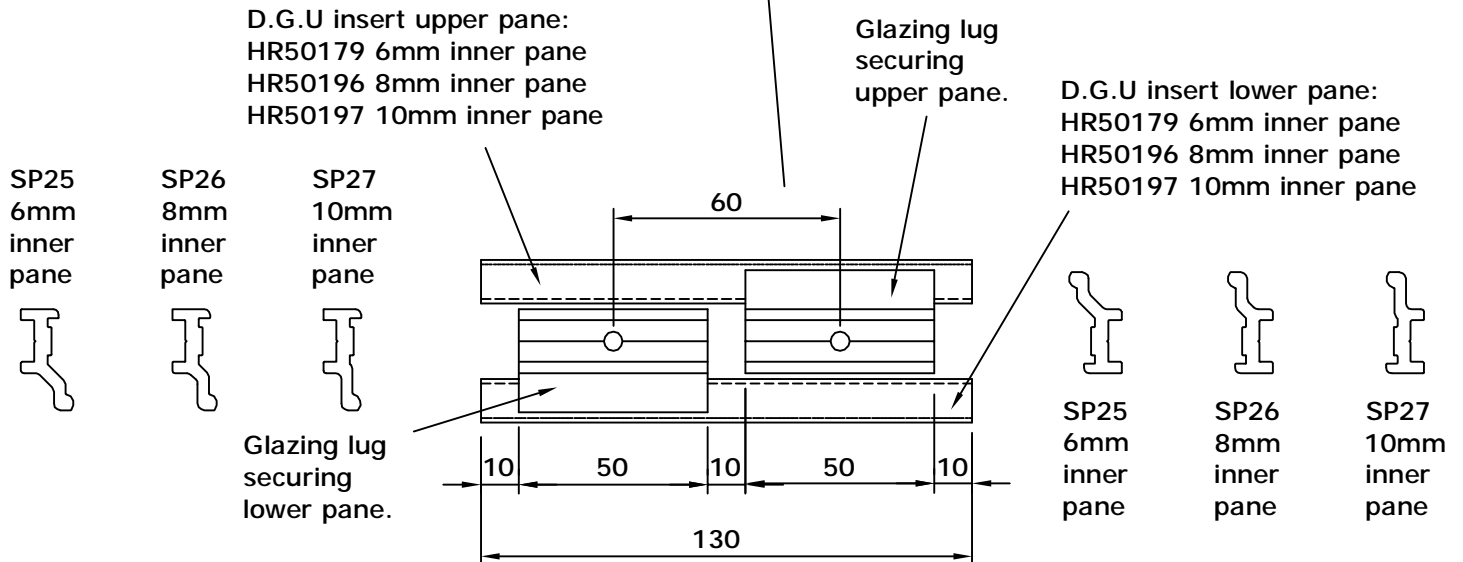
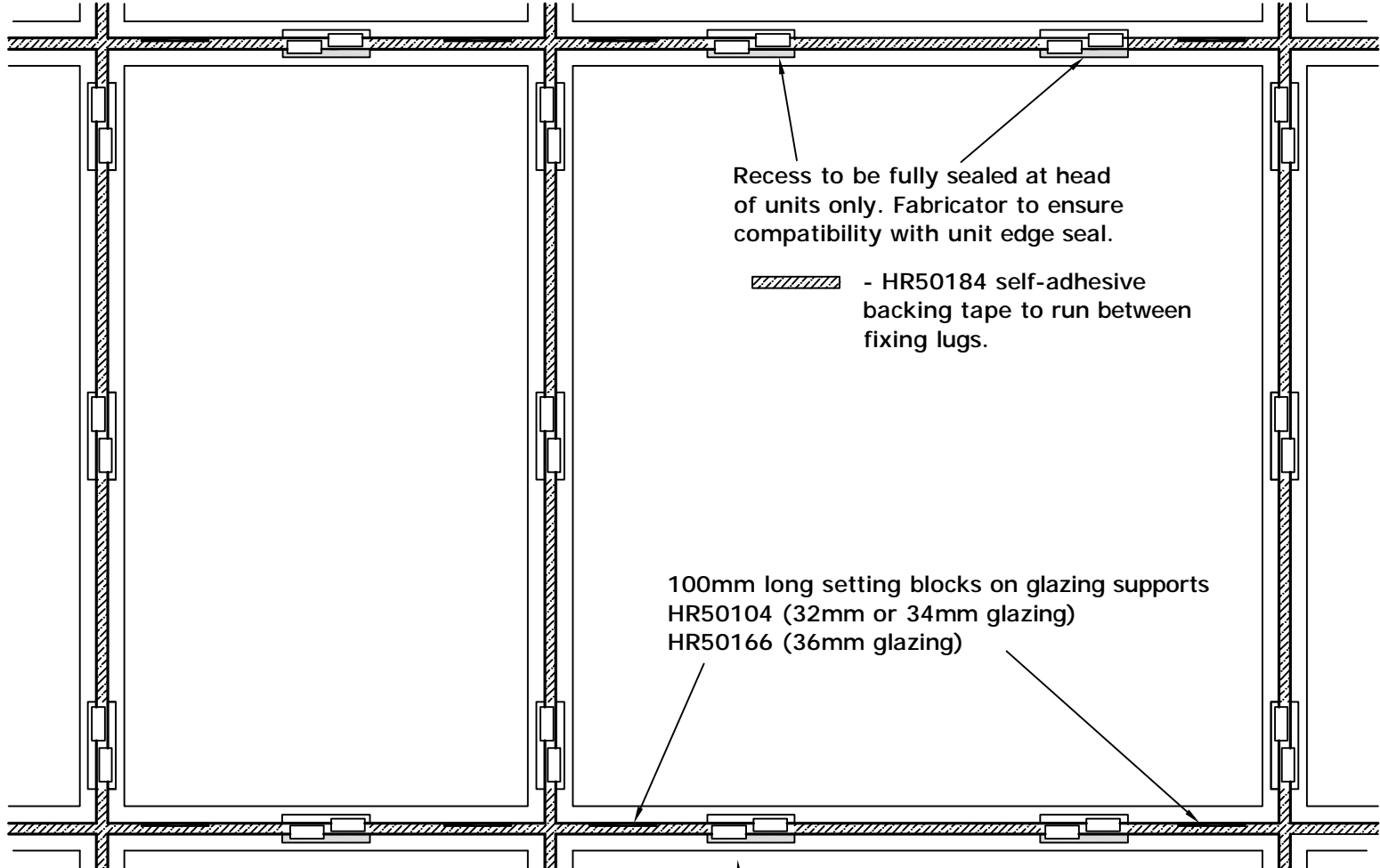
System 17

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D.G.U. inserts (HR50179, HR50196 or HR50197) to align with inserts on adjacent panes.

Secure double glazed units using glazing lugs (SP25, SP26 or SP27). Position lugs within channels as shown below.

Torque lug fixing screws equally and evenly to 3.5Nm and ensure adequate compression on internal mullion and transom gaskets.



Not to scale

SHEET SP / 6 / 50
 rev 0 21/01/09

Glazing Details

Fixed Light

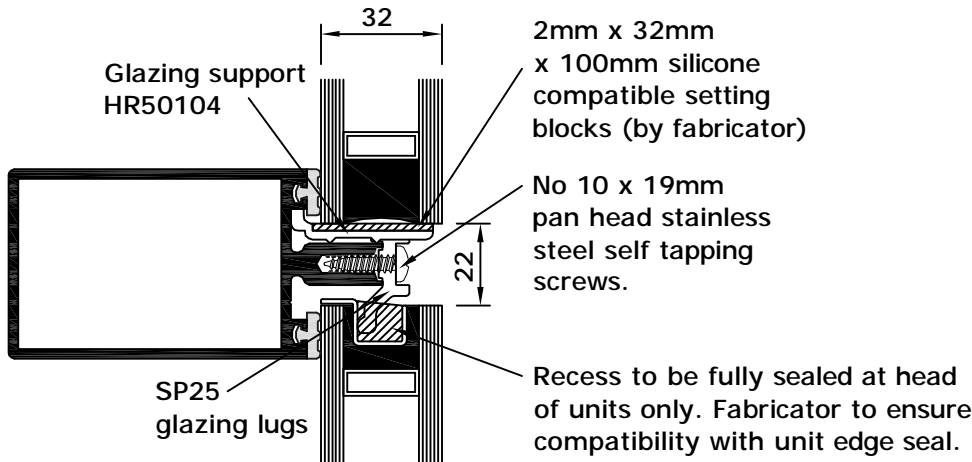
For further information/details refer to 'Glazing Support' sheet in System 17 manual.



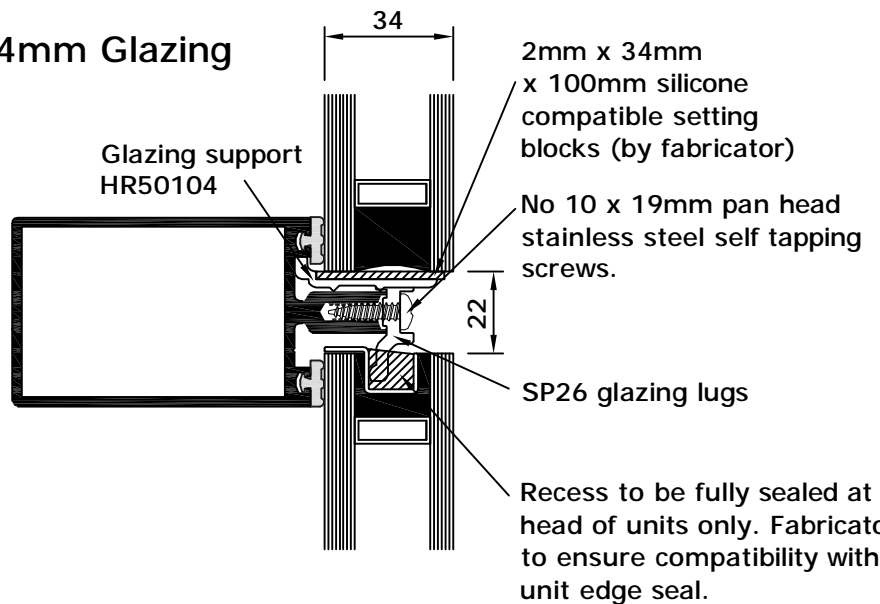
System 17

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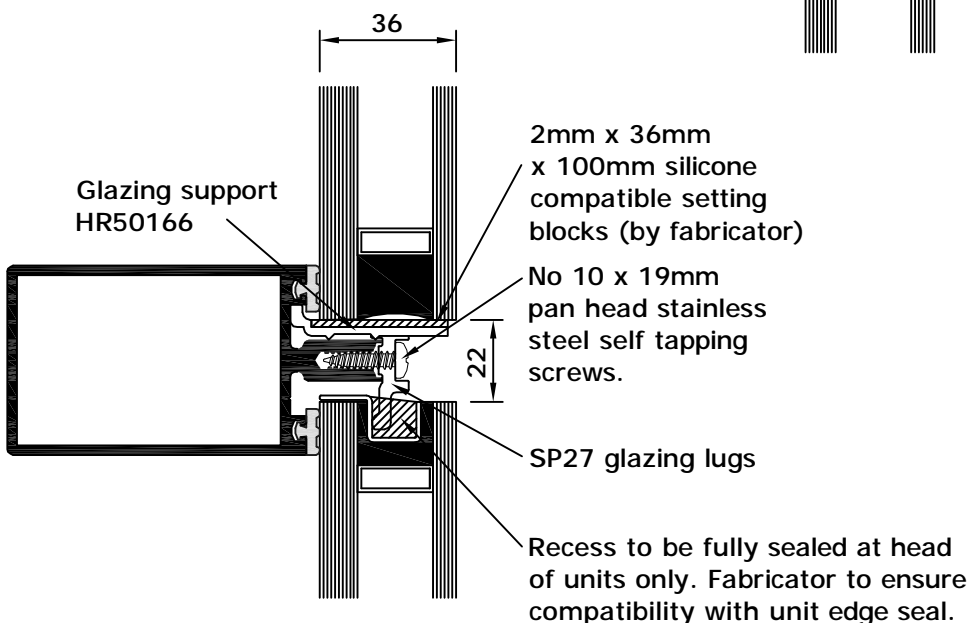
32mm Glazing



34mm Glazing



36mm Glazing



Scale 1:2

Glazing Details

Opening Light

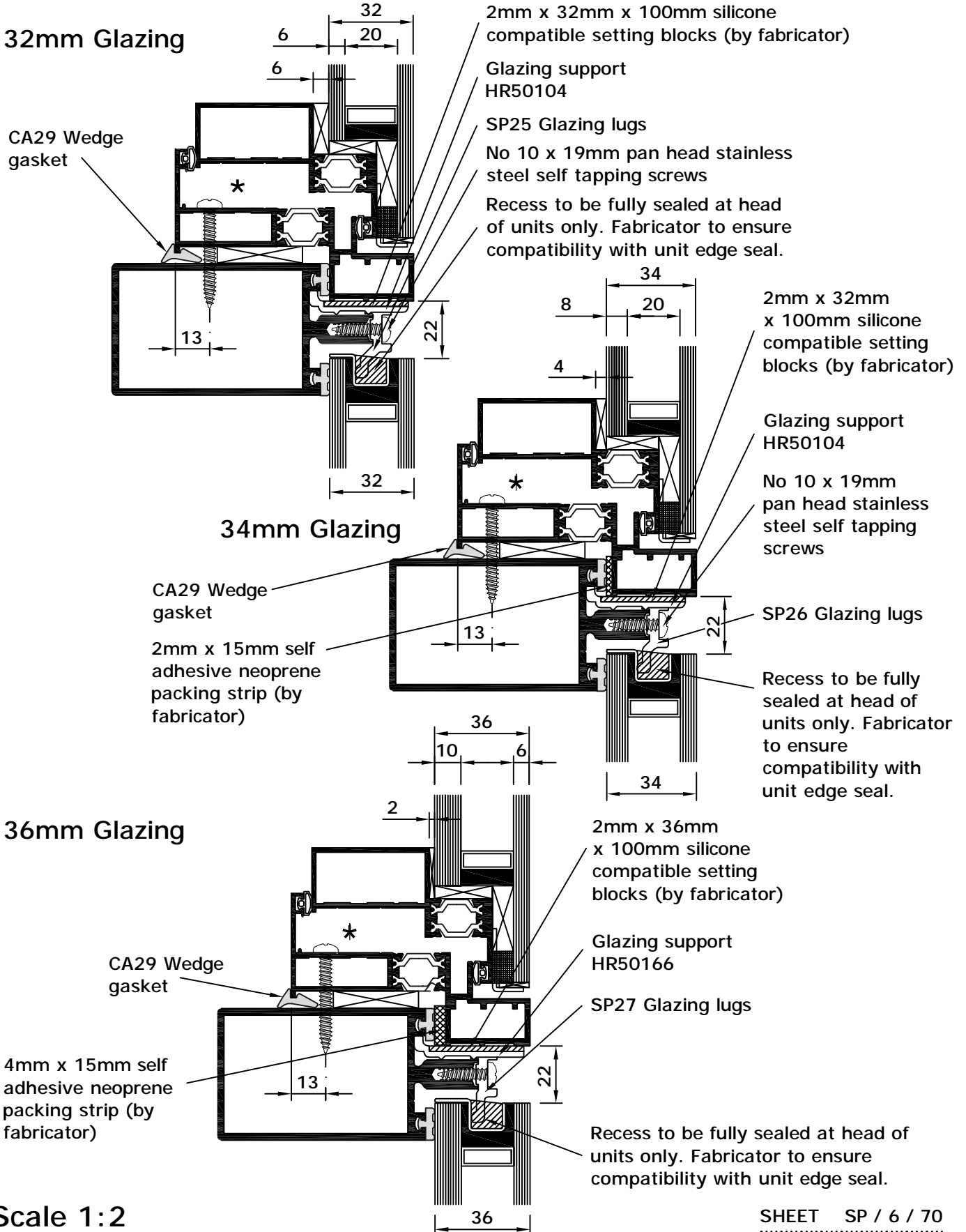
For further information/details refer to 'Glazing Support' sheet in System 17 manual.



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- * Vent outer frame to be located using temporary pressure plates to ensure gasket compression prior to No. 10 x 38mm pan head stainless steel self tapping screws being applied at head, cill and jambs at maximum 300mm centres and 150mm from corners.



Scale 1:2

Sealing Details

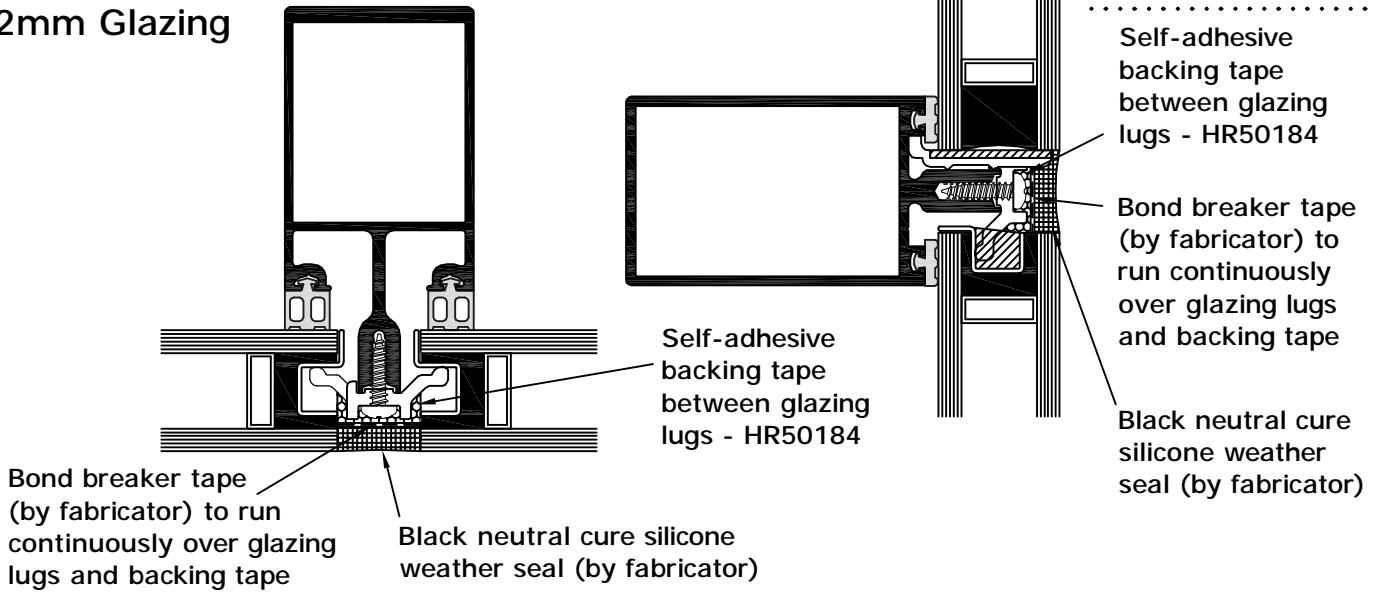


System 17

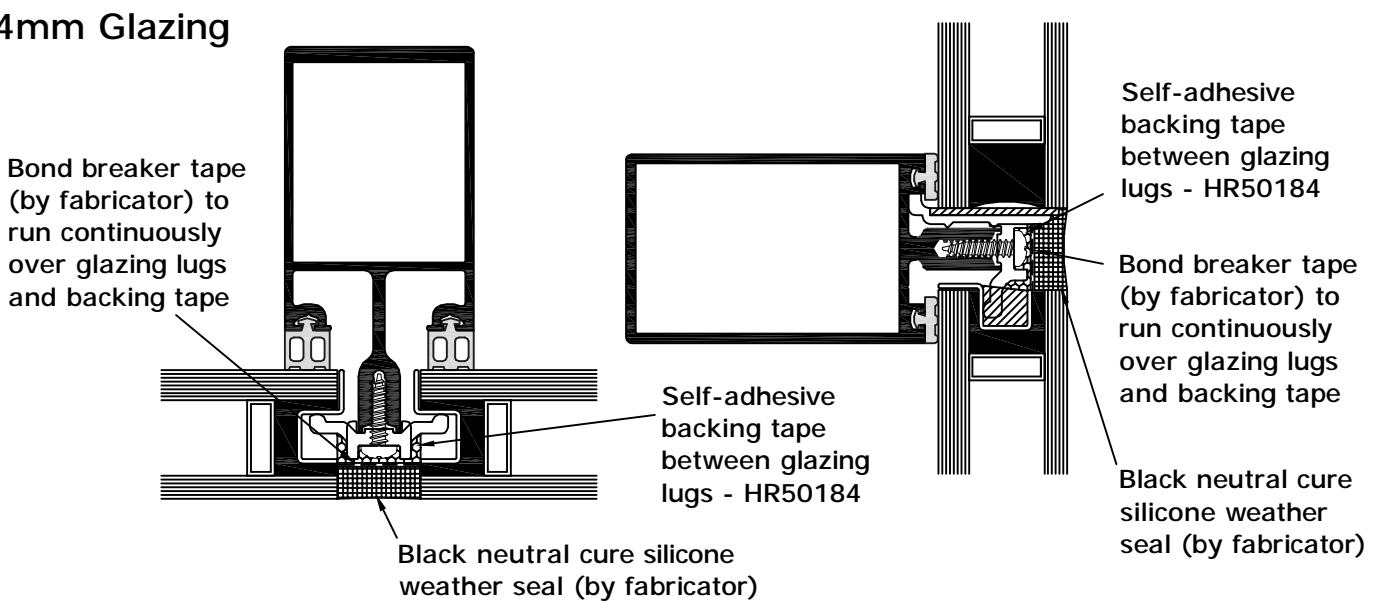
These details also apply when incorporating an opening light.

SP
CURTAIN WALLING

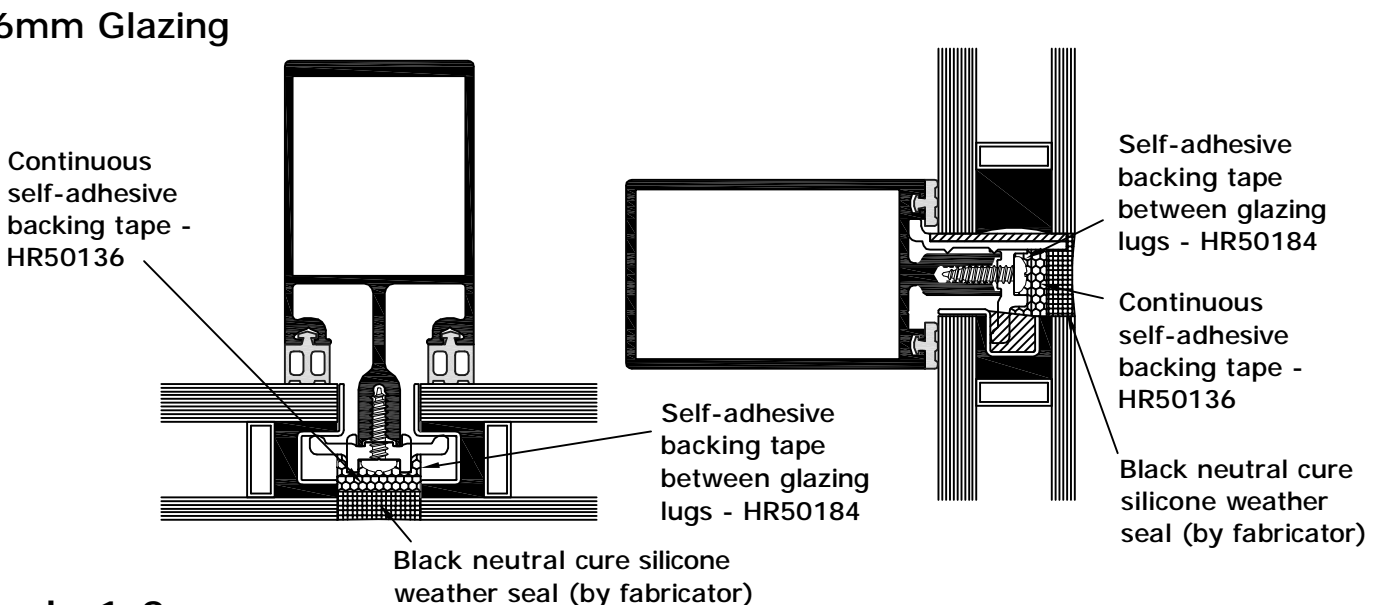
32mm Glazing



34mm Glazing



36mm Glazing



Scale 1:2

SHEET SP / 6 / 80
rev 1 18/11/09

System 17 SP Curtain Walling



APPENDIX

Section 0: Specification, Profile Index and Component ID

SP/0/10 rev 13	Specification
SP/0/20 rev 4	Profile Index
SP/0/30 rev 1	Component Identification

Section 1: Section Drawings

SP/1/10 rev 3	Section Drawings
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Section 2: General Arrangement Drawings

SP/2/10 rev 11	General Arrangement - 3-Dimensional Assembly Detail
SP/2/20 rev 12	Typical Elevation
SP/2/30 rev 12	General Arrangement - Jamb and Intermediate Mullion Details
SP/2/40 rev 9	General Arrangement - Alternative Jamb Details
SP/2/50 rev 10	General Arrangement - Alternative Jamb Details
SP/2/60 rev 7	General Arrangement - Head, Cill, and Intermediate Transom Details
SP/2/70 rev 4	General Arrangement - Panel Insert Details

Section 3: Fabrication Details

SP/3/10 rev 1	General Notes
SP/3/20 rev 0	Glass and Fabrication Sizes
SP/3/30 rev 1	Perimeter Section Details - Fabrication and Cutting Sizes
SP/3/40 rev 0	Perimeter Section Corner Assembly Detail

Section 4: Curtain Walling Inserts

SP/4/10 rev 7	Curtain Walling Inserts
SP/4/20 rev 2	Drip Rails

Section 5: Installation and Assembly

SP/5/10 rev 1	Installation and Assembly
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Section 6: Gaskets and Glazing

SP/6/10 rev 8	Glazing Procedure
SP/6/20 rev 2	Glazing Specification
SP/6/30 rev 2	Glazing Requirements
SP/6/40 rev 0	Positions of Aluminium D.G.U. Inserts
SP/6/50 rev 0	Installation of Concealed Fixing Lugs
SP/6/60 rev 1	Glazing Details - Fixed Light
SP/6/70 rev 1	Glazing Details - Opening Light
SP/6/80 rev 1	Sealing Details