

Intalok[®]

Extruded
Glazing System

- 
- ➔ All Skylights
 - ➔ Roof Glazing
 - ➔ Vertical Use
 - ➔ Balustrading
 - ➔ Security Use

**Thin Sections
Large Spans
High Strength
Fast Assembly**

**Straight or Curved - Single or DG - Commercial Industrial - Domestic
Design Advice - General Supply - installation Arranged**

Contact:

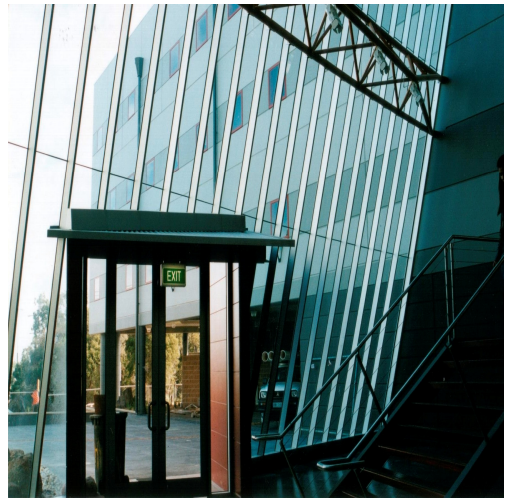
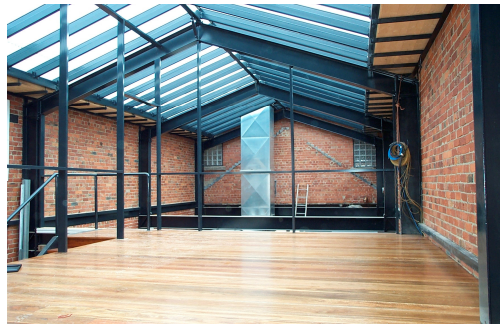
Belle Skylights

125 Chesterville Rd, Moorabbin Vic 3189

Phone: (03) 9555 2388

Fax: (03) 9532 3470

Email: info@belleskylights.com.au



Belle Skylights

Presenting the

Intalok[®] Glazing System

Skylights - Roof Glazing - Sloped Glazing - Vertical Glazing - Balustrading - Security Use

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Purpose, Scope and Limitations

The Intalok system is a series of general purpose glazing bars for use by manufacturers in the making of glazed structures. The span tables in this catalogue are provided as a design guide estimate and relate only to the capacity of the Intalok glazing bars themselves and in the conditions stated in the tables. All other information including text and diagrams are merely suggestions for consideration and do not represent final or specific design solutions and the diagrams and any components therein are not for scaling off and are not proportioned or sized or specified for use in any particular design or situation and no guidance is given or intended in relation to any aspect of any other product or material such as glazing material type or thickness or its installation. The manufacturer of the glazed structure must ensure that every aspect of their proposed structure including their design, manufacture, installation and use complies with all the relevant Australian standards and building codes. If in doubt they should consult a qualified engineer. The manufacturer of the glazed structure should also take into account any other factors which may effect their design such as corrosive environments and allowance for thermal expansion.

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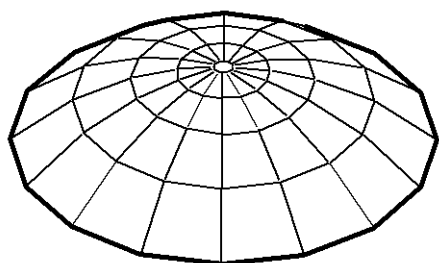
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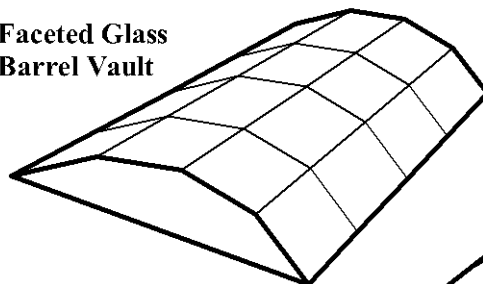
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***Intalok* Glazing System** Any Shape or Configuration

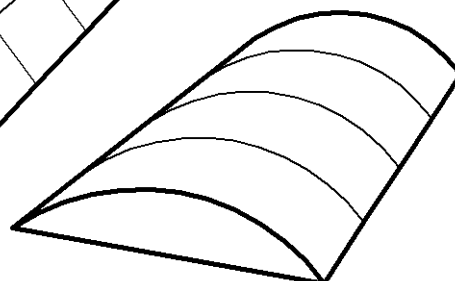


**Faceted
Segmented Glass Dome**

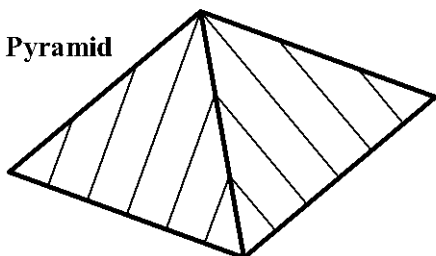
**Faceted Glass
Barrel Vault**



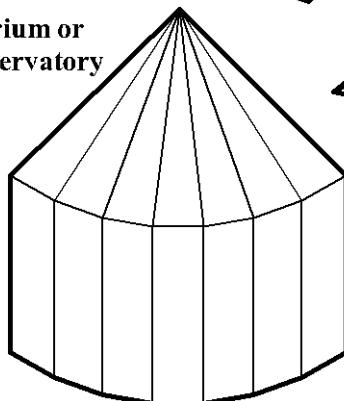
**Curved
Barrel Vault**



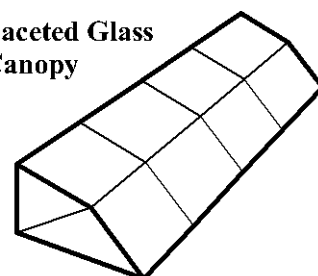
Pyramid



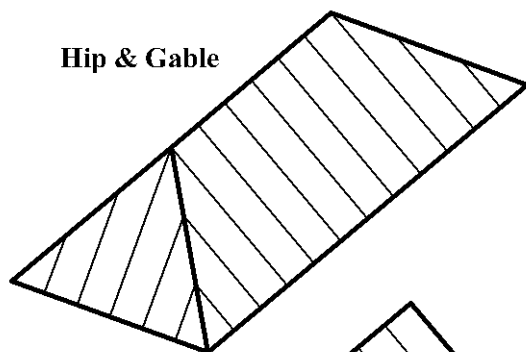
**Solarium or
Conservatory**



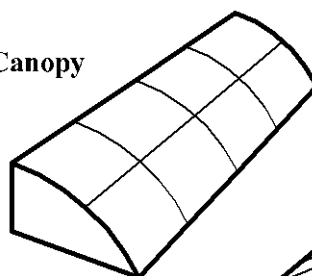
**Faceted Glass
Canopy**



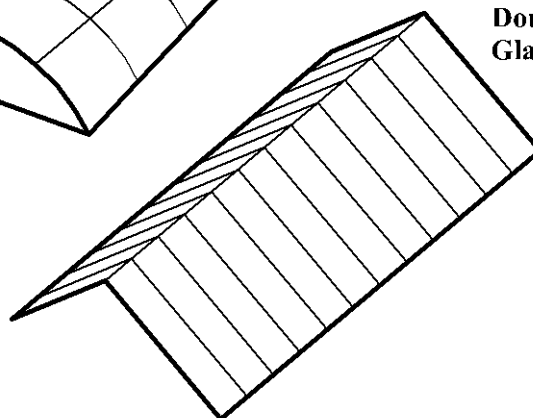
Hip & Gable



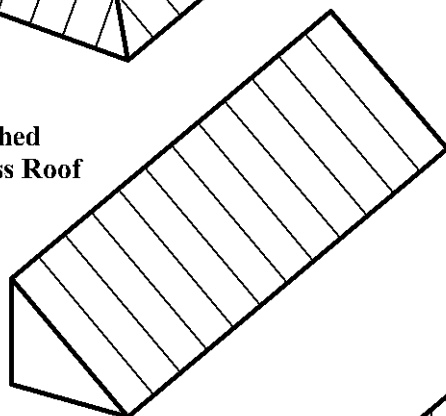
Canopy



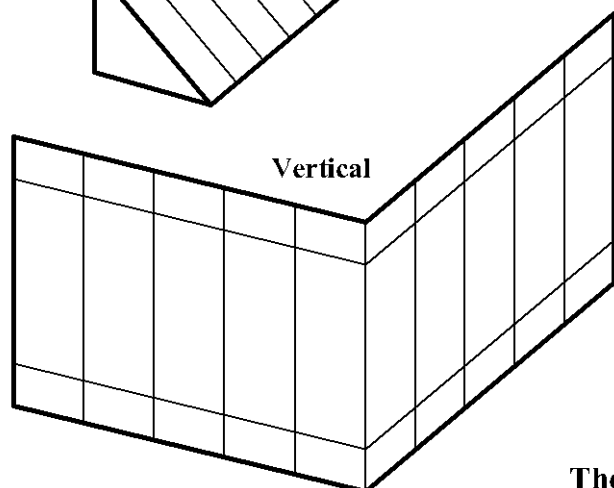
**Double Pitch or
Glass Gable**



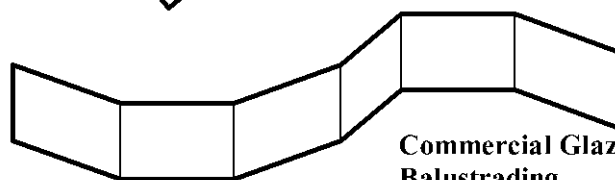
**Pitched
Glass Roof**



Vertical



**Commercial Glazed
Balustrading**



The *Intalok* Glazing System may fit any Design from the smallest of Domestic Applications to the Largest in Commercial

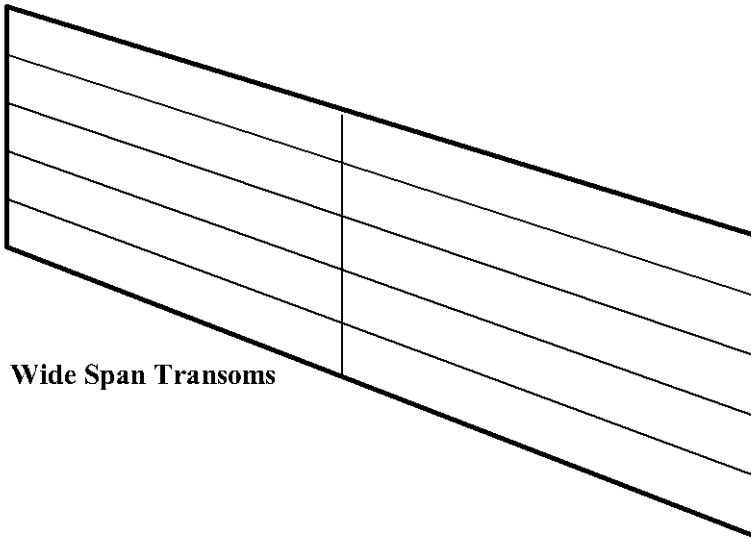
Contact

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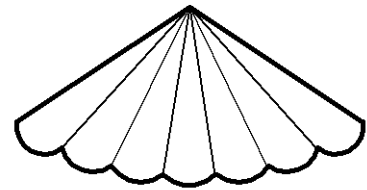
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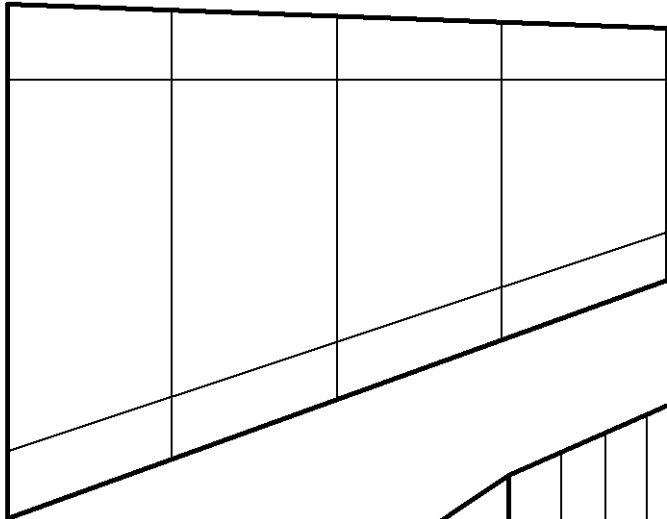
Intalok Glazing System **Any Shape or Configuration**



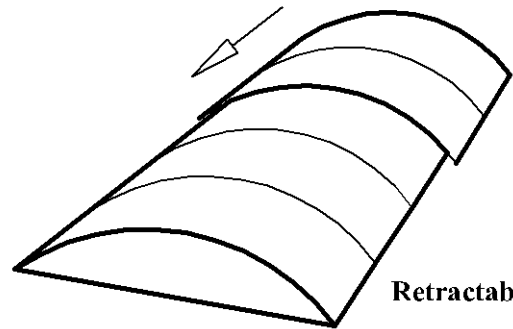
Wide Span Transoms



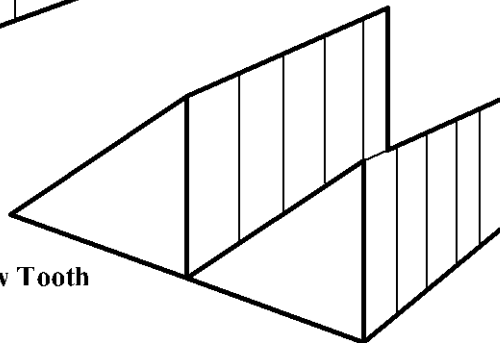
Entrance Canopy



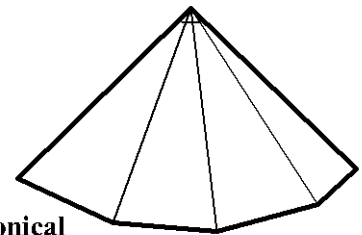
Wide Span Glazing



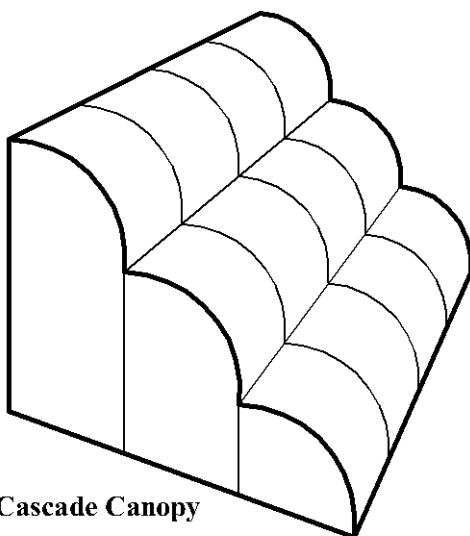
Retractable



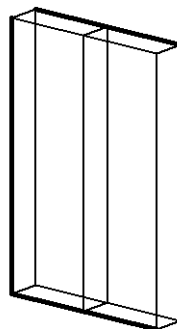
Saw Tooth



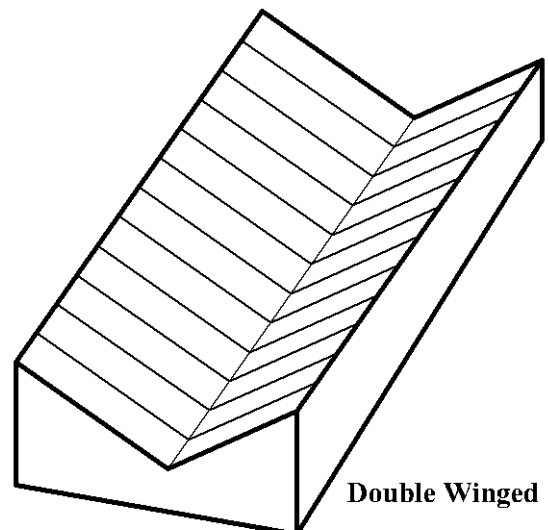
Conical



Cascade Canopy



Acoustic



Double Winged

The *Intalok* Glazing System will fit any Design from the smallest of Domestic Applications to the Largest in Commercial

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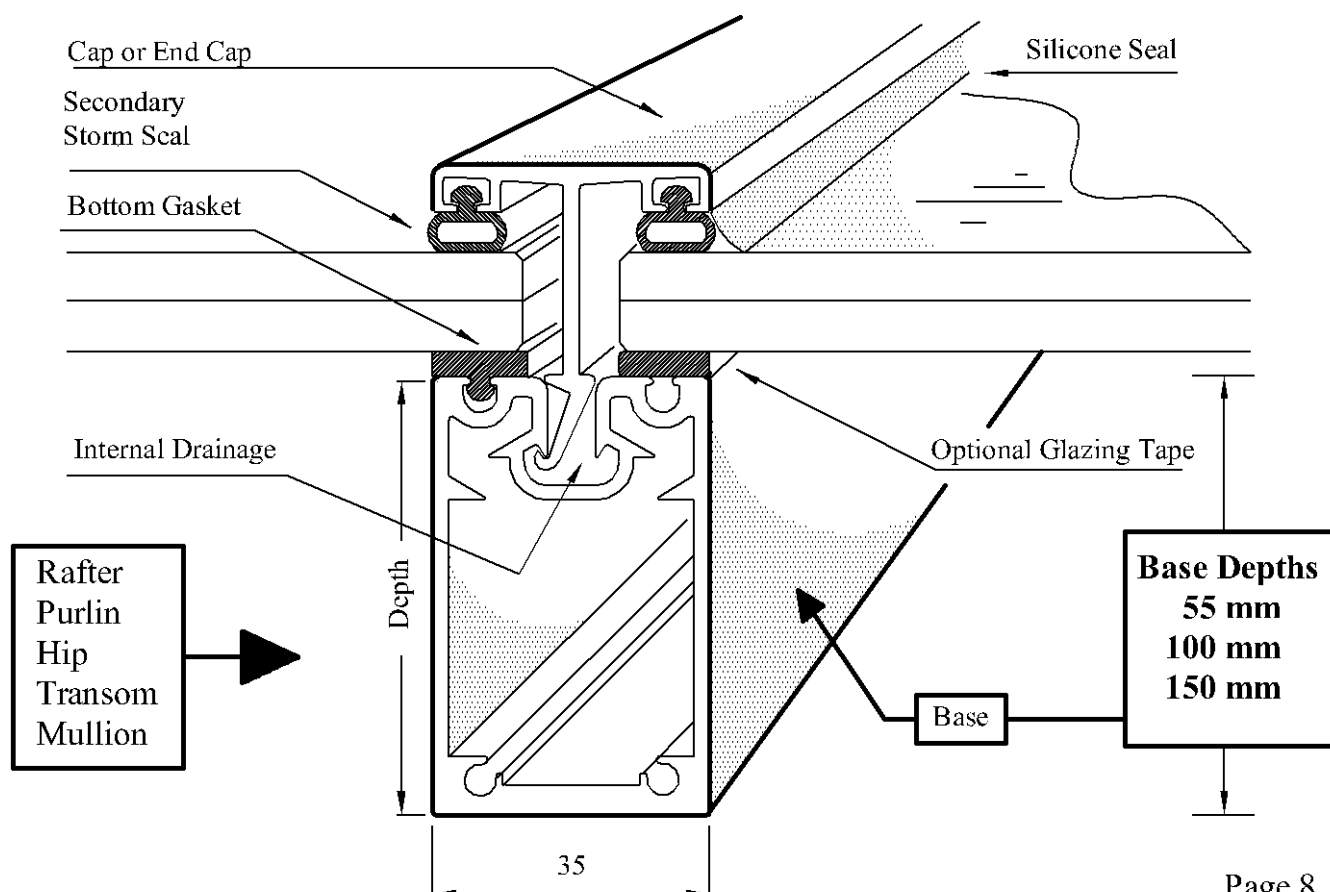
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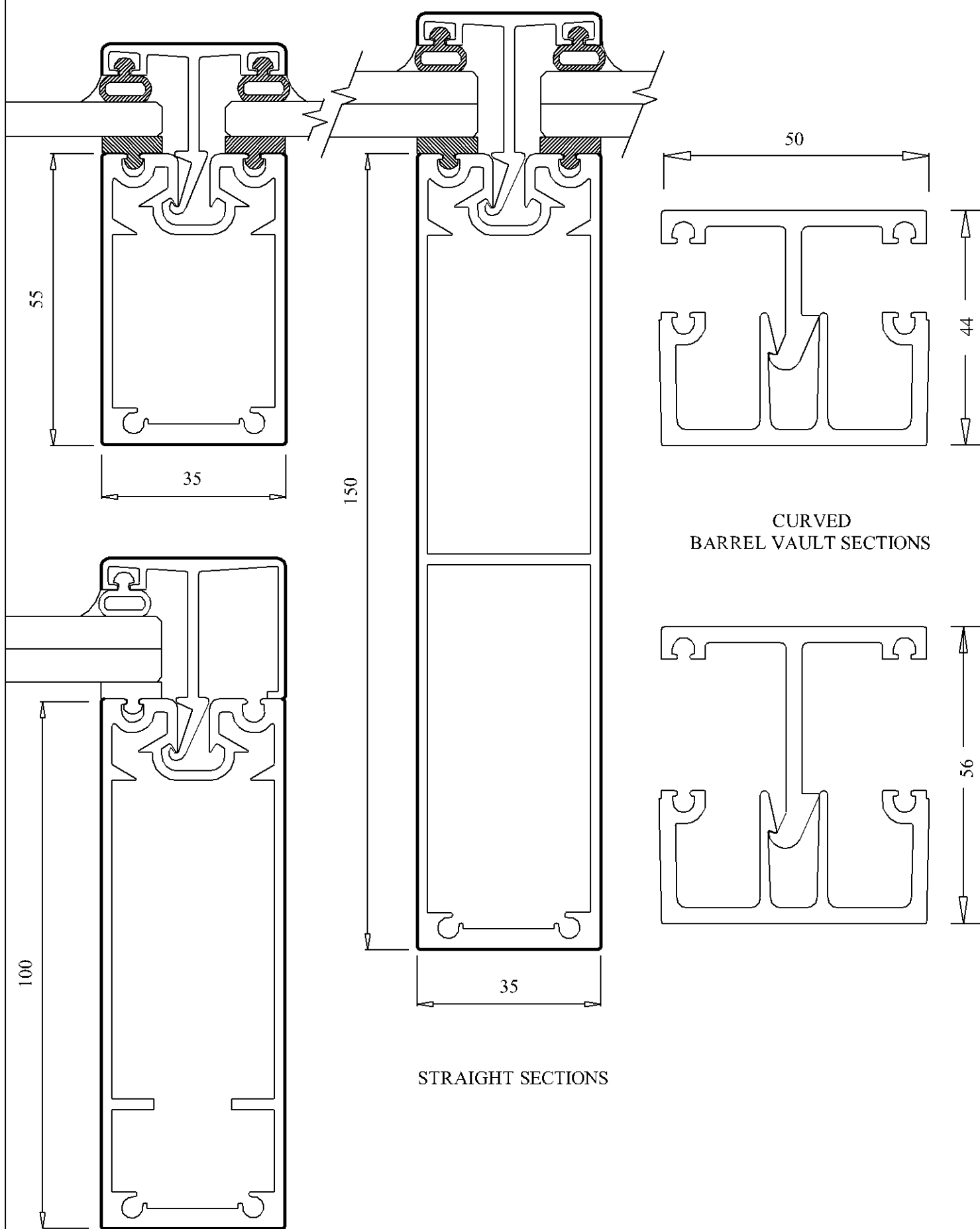
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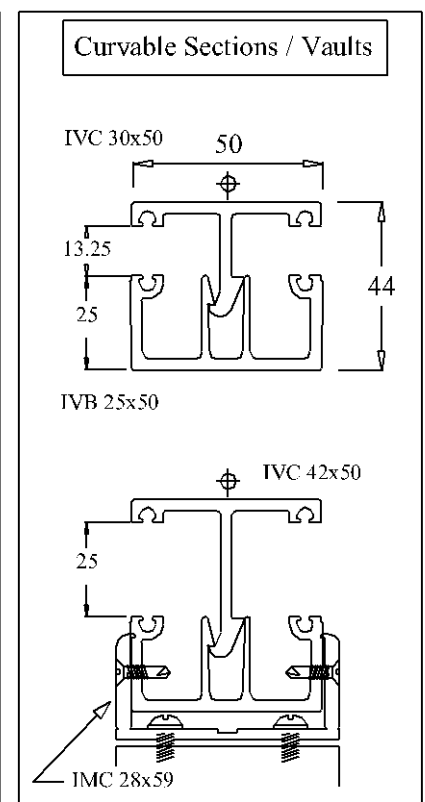
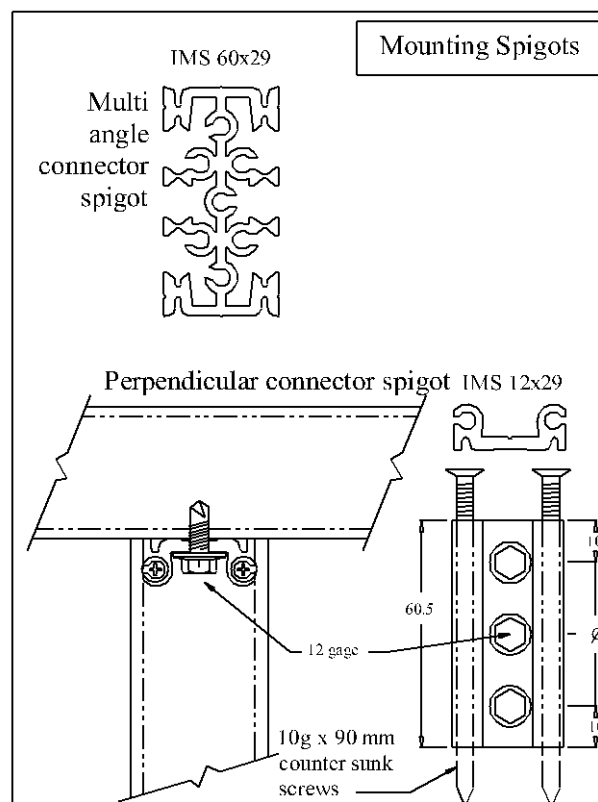
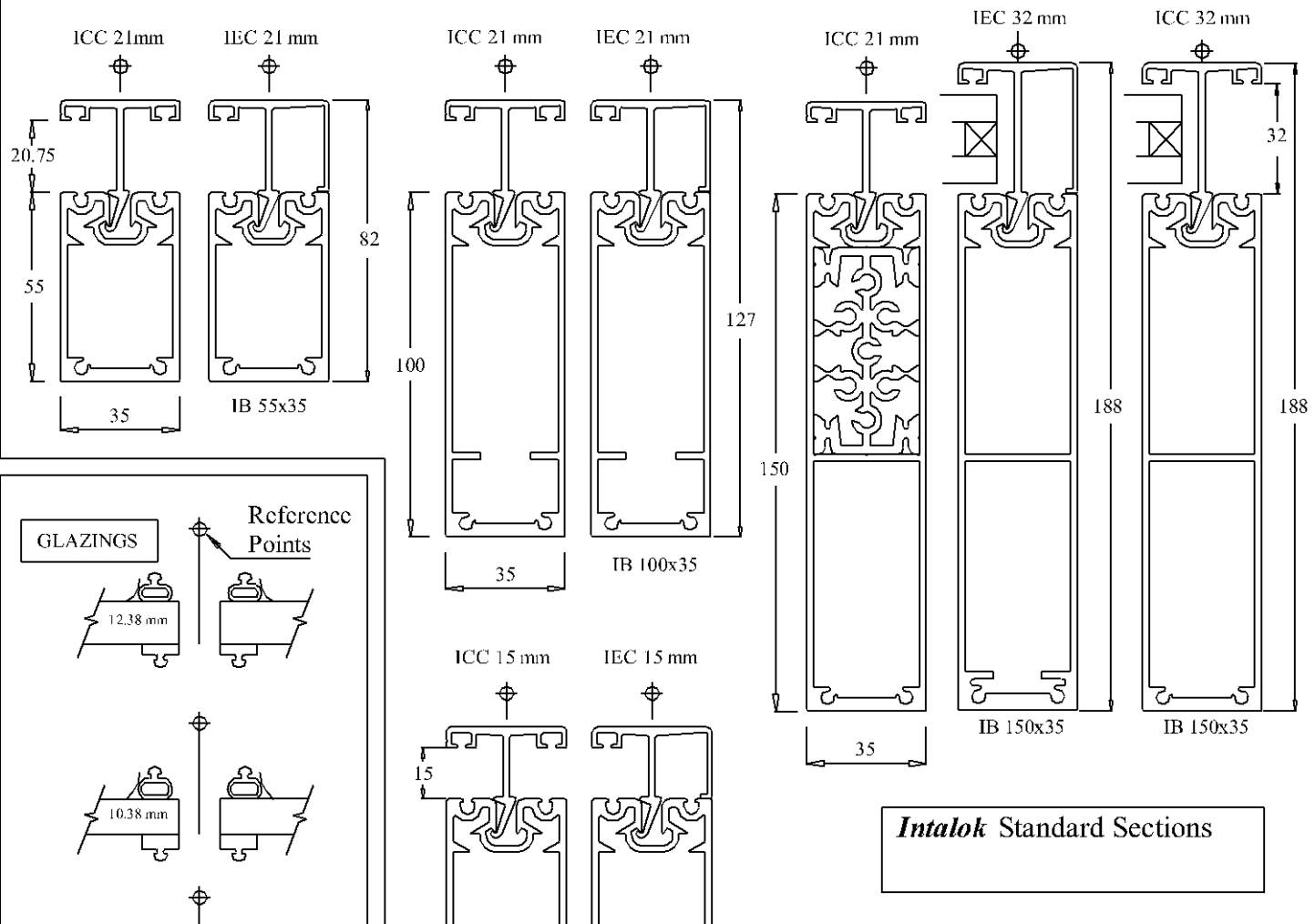
***Intalok* Glazing System**

Advantages & Unique Features

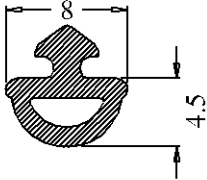

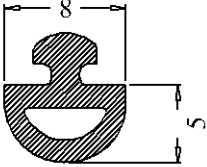

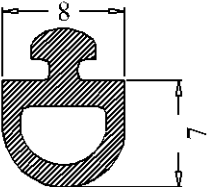

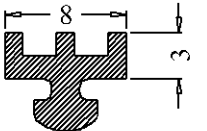

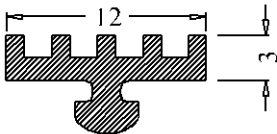

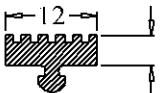

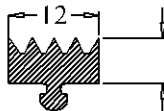

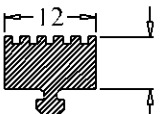

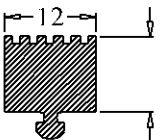

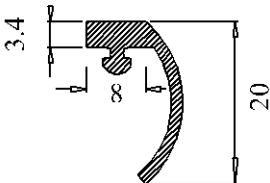

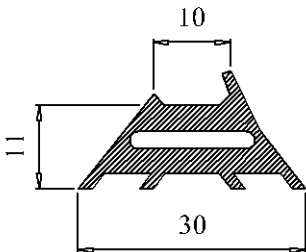

Ultra Thin Sections 35mm Wide Sections, Maximizes Daylight
All Common Uses	..... Single and Double Glazing
Fast/Simple Assembly	..... Smart Sections Reduce Labour/Skill
Pre-Fitted Secondary Seals	..... Instant Dry Seal Minimizes Silicone
Secondary Storm Seals	..... Precise preset Compression Seals
Fast Fit <i>Intalok</i> Caps	..... Effortless Glazing Installation
Slide on Transoms	..... Fast Accurate On-Site Installation
Concealed Fixings	..... Fully Concealed Rafter/Transom Fixings
Optimum Strength and Stiffness	..... Engineered for Economical High Spans
High Strength Glazing Caps	..... <i>Intalok</i> Cap to Base Mechanism
Fast Glazing Replacement	..... Using the <i>Intalok</i> Mechanism
Self Locking Cap	..... <i>Intalok</i> Two Way Servo Grip to Glazing
Internal Storm Drain	..... Conducts Away Storm Moisture
Knife Edge Thermal Barrier	..... Minimizes Moisture Condensation
Universal Rafter/Transom Section	..... Minimizes Stock/Storage







GLAZING CAPS	Part Numbers	Depth Width
Intalok Center Cap (15 mm high gap)	ICC 15 mm	35
Intalok Center Cap (21 mm high gap)	ICC 21 mm	35
Intalok Center Cap (32 mm high gap)	ICC 32 mm	35
Intalok End Cap (15 mm high gap)	IEC 15 mm	35
Intalok End Cap (21 mm high gap)	IEC 21 mm	35
Intalok End Cap (32 mm high gap)	IEC 32 mm	35
Intalok VAULT Cap (13.25 mm high gap)	IVC 13.3 mm	30 x 50
Intalok VAULT Cap (25 mm high gap)	IVC 25 mm	42 x 50
BASE FRAMES		
Intalok Base (55 mm Deep)	IB-55x35	55 x 35
Intalok Base (100 mm Deep)	IB-100x35	100 x 35
Intalok Base (150 mm Deep)	IB-150x35	150 x 35
Intalok VAULT Base	IVB-25x50	25 x 50
MOUNTINGS		
Intalok Mounting Spiggot	IMS-12x29	12 x 29
Intalok Multi-Angle Spigot	IMS-60x29	60 x 29
Intalok Mounting Channel	IMC-28x59	28 x 59
GASKETS		
Intalok Gasket - Top	IGT-4.5x8	4.5 x 8
Intalok Gasket - Top	IGT-5x8	5 x 8
Intalok Gasket - Top	IGT-7x8	7 x 8
Intalok Gasket - Bottom	IGB-3x8	3 x 8
Intalok Gasket - Bottom	IGB-3x12	3 x 12
Intalok Gasket - Bottom	IGB-4.5x12	4.5 x 12
Intalok Gasket - Bottom	IGB-5.8x12	5.8 x 12
Intalok Gasket - Bottom	IGB-7x12	7 x 12
Intalok Gasket - Bottom	IGB-10 x12	10 x 12
Intalok Gasket - Side	IGS-3.4x8x20	3.4 x 8 x 20
Intalok Gasket - Wedge	IGW-11x30x10	11 x 30 x 10

Intalok Gaskets		Full Size & Part No	
	Intalok Gasket - Top		I G T - 4.5 x 8
	Intalok Gasket - Top		I G T - 5 x 8
	Intalok Gasket - Top		I G T - 7 x 8
	Intalok Gasket - Bottom		I G B - 3 x 8
	Intalok Gasket - Bottom		I G B - 3 x 12
	Intalok Gasket - Bottom		I G B - 4.5 x 12
	Intalok Gasket - Bottom		I G B - 5.8 x 12
	Intalok Gasket - Bottom		I G B - 7 x 12
	Intalok Gasket - Bottom		I G B - 10 x 12
	Intalok Gasket - Side		I G S - 3.4 x 8 x 20
	Intalok Gasket - Wedge		I G W - 11 x 30 x 10
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CURVABLE SECTIONS

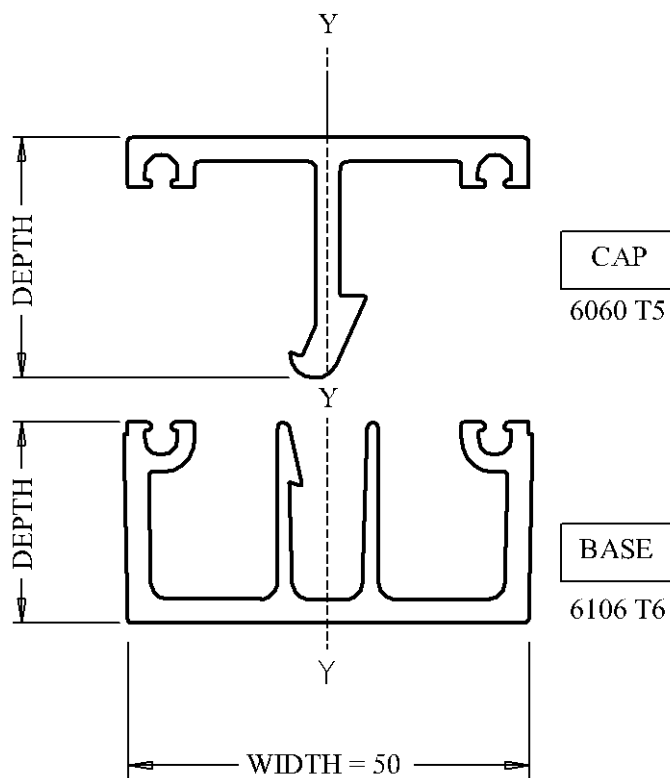
CAPS Depth x Width		X - X		Y - Y	
		Ixx	Z min	Iyy	Z min
1	30 x 50	23,140	1,051	42,830	1,713

BASES Depth x Width		X - X		Y - Y	
		Ixx	Z min	Iyy	Z min
1	25 x 50	28,250	1,863	122,700	4,908

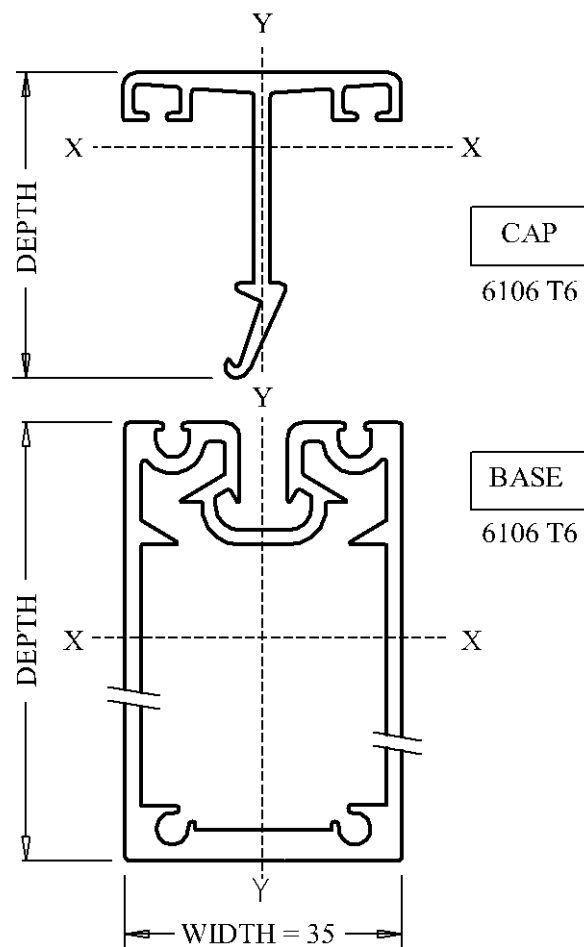
STRAIGHT SECTIONS

CAPS Depth x Width		X - X		Y - Y	
		Ixx	Z min	Iyy	Z min
1	32 x 35	14,900	620	11,180	638
2	38 x 35	24,280	899	11,200	640
3	49 x 35	50,470	1,462	11,610	663

BASES Depth x Width		X - X		Y - Y	
		Ixx	Z min	Iyy	Z min
1	55 x 35	215,770	7,846	89,270	5,101
2	100 x 35	993,100	19,862	147,130	8,407
3	150 x 35	2,710,000	35,194	207,270	11,844



Scale 1:1

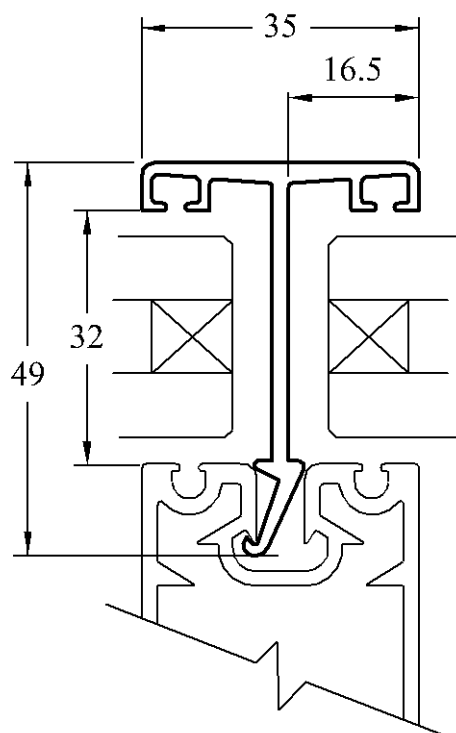


Cap Retention Strength

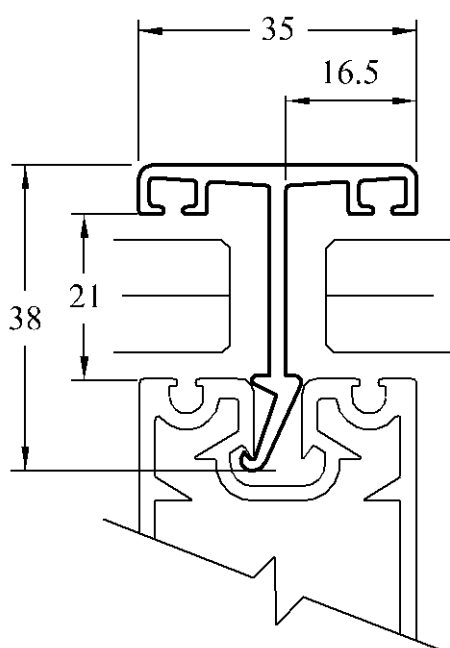
The permissible pull out strength of the cap exceeds the permissible deflection of the base thus the cap pull out strength need not be considered if the span tables in this brochure are not exceeded .

STRAIGHT SECTIONS

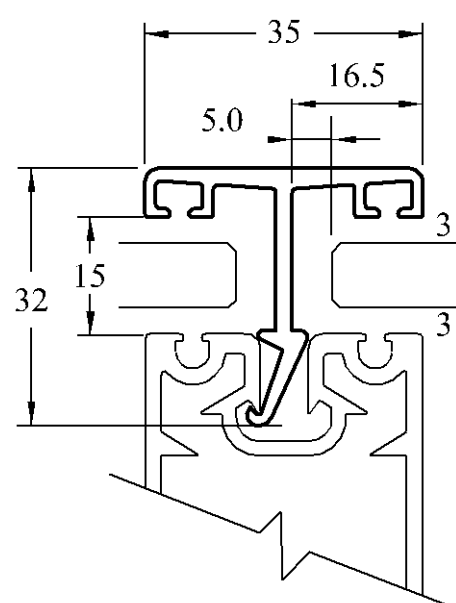
ICC 32 mm gap



ICC 21 mm gap



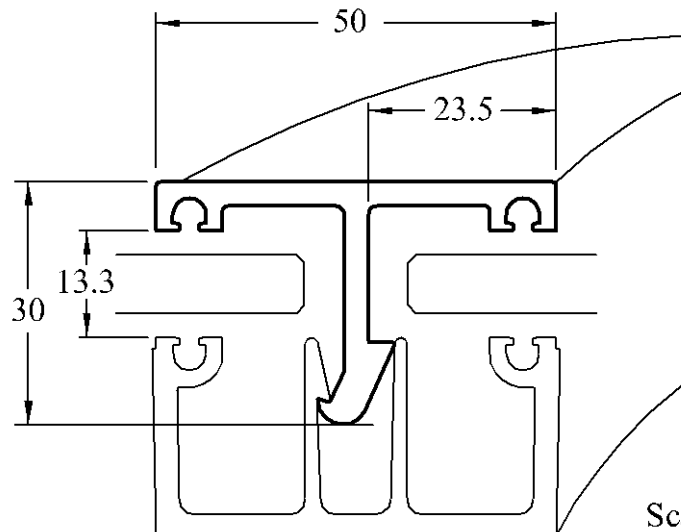
ICC 15 mm gap



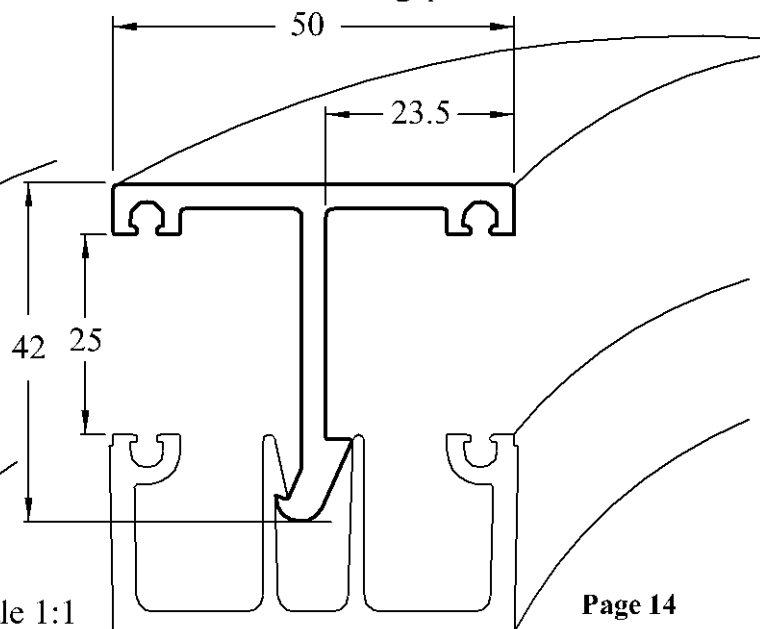
Glazing dimensions and clearances to be in accordance with the relevant glazing code

CURVABLE SECTIONS

IVC 13.3 mm gap



IVC 13.3 mm gap



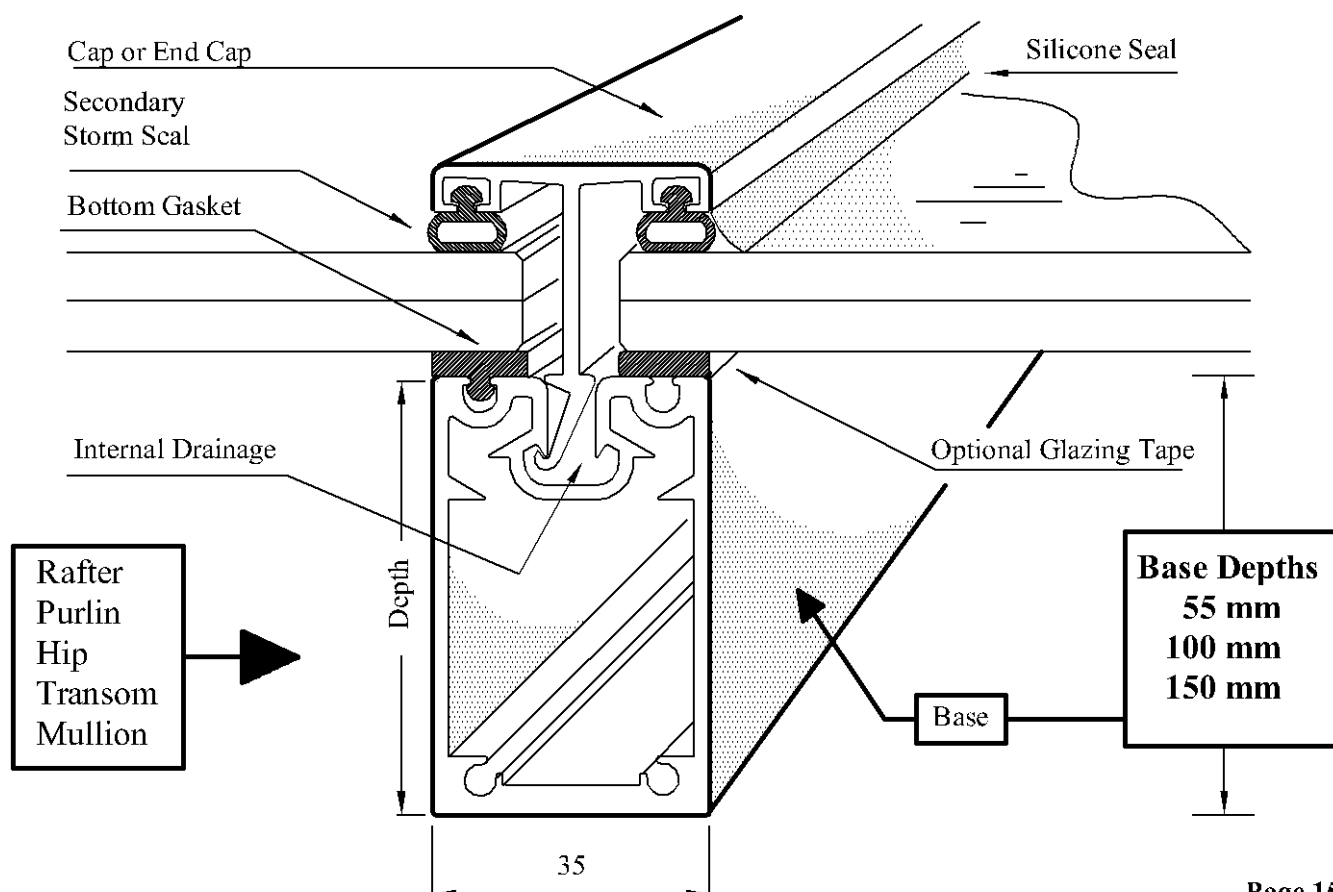
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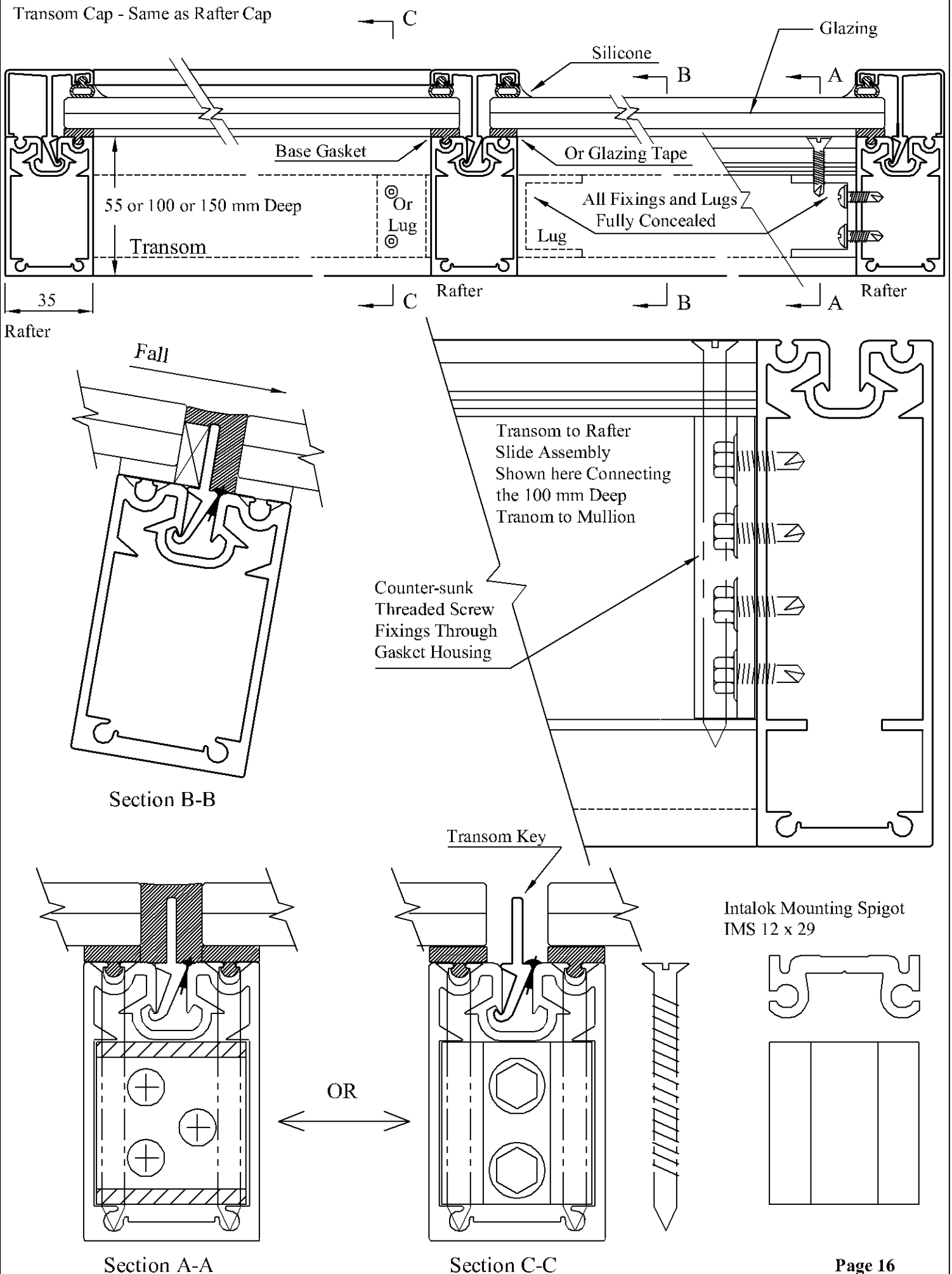
***Intalok* Glazing System**

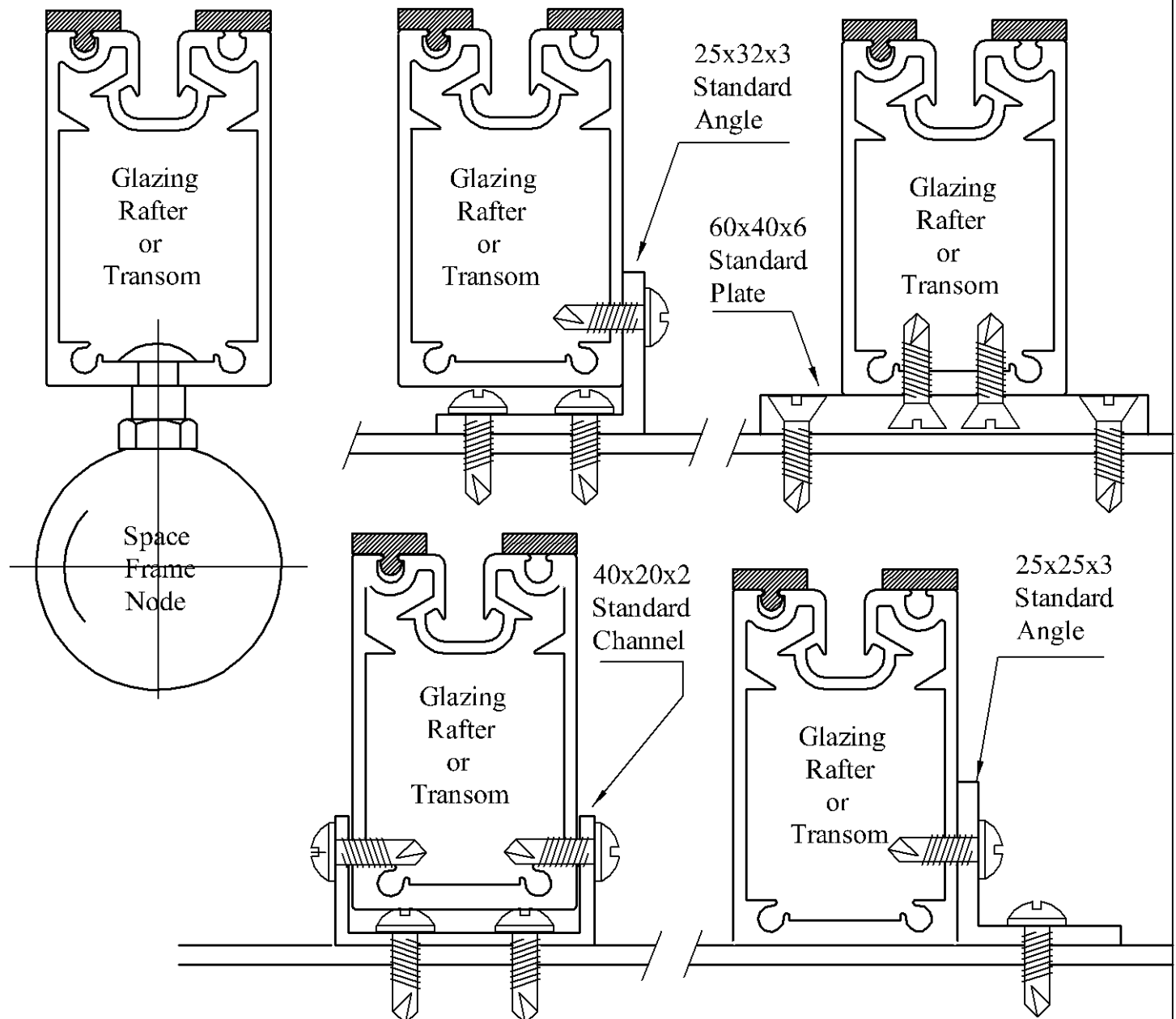
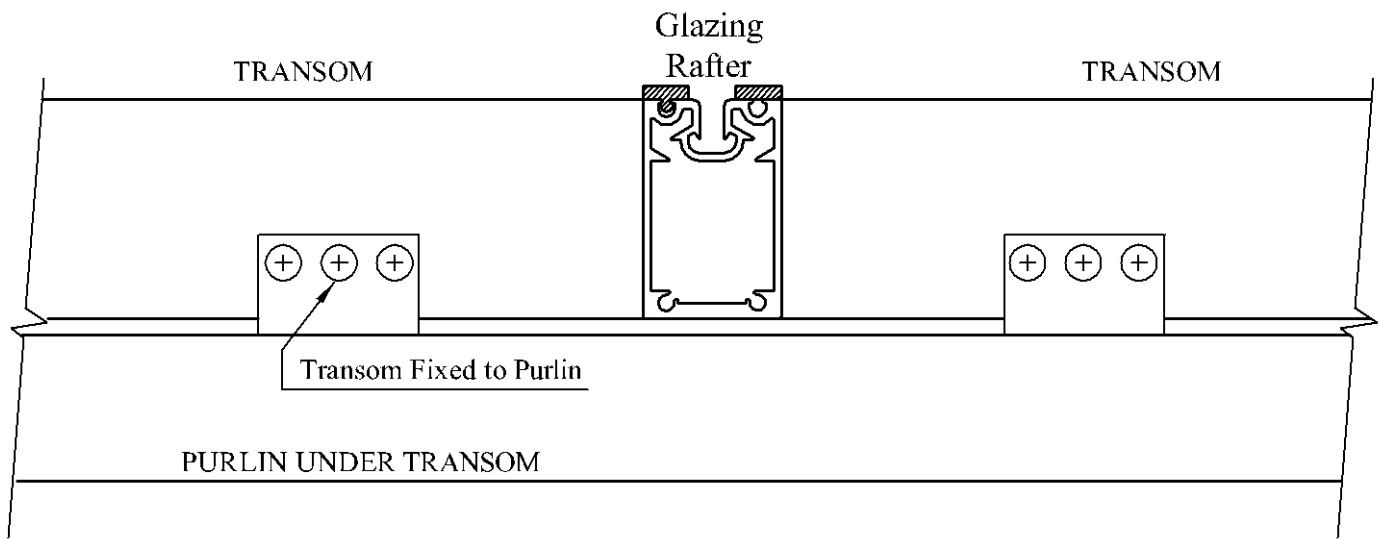
Overhead Glazing Applications

Advantages & Unique Features

Ultra Thin Sections 35mm Wide Sections, Maximizes Daylight
All Common Uses Single and Double Glazing
Fast/Simple Assembly Smart Sections Reduce Labour/Skill
Pre-Fitted Secondary Seals Instant Dry Seal Minimizes Silicone
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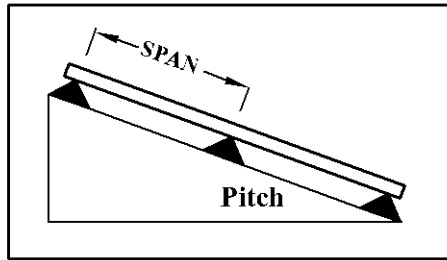
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Intalok

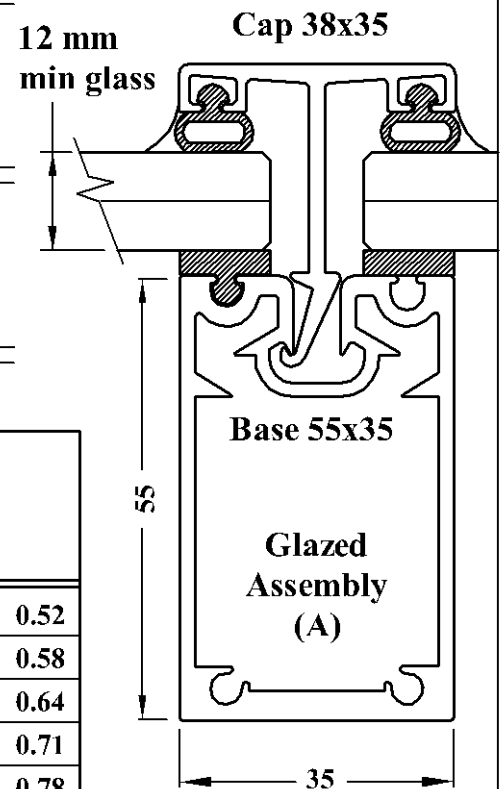
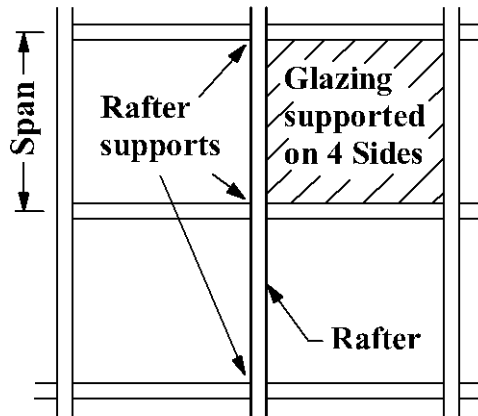
Glazed Rafter Assembly

Table R - 1

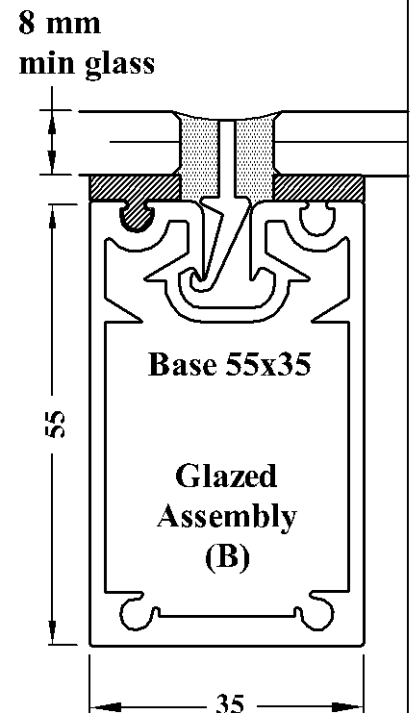
Roof Span Chart



Rafter assembly continuous over three supports



Rafter Span (mm)	Minimum Pitch		Permissible Stress Design Pressure (KPa)									
	(A)	(B)	(The tables do not include the self weight of glass which is approx 0.026 KPa per mm of thickness)									
2250	50	58	1.39	1.16	1.00	0.87	0.77	0.69	0.63	0.57	0.52	
2200	45	55	1.50	1.26	1.08	0.95	0.84	0.76	0.69	0.63	0.58	
2150	40	55	1.62	1.37	1.18	1.03	0.94	0.83	0.75	0.69	0.64	
2100	35	50	1.75	1.48	1.28	1.13	1.00	0.99	0.83	0.76	0.71	
2050	30	50	1.90	1.61	1.39	1.23	1.10	0.99	0.91	0.84	0.78	
2000	25	45	2.00	1.69	1.46	1.28	1.14	1.03	0.94	0.86	0.80	
1950	20	40	2.18	1.85	1.60	1.41	1.26	1.14	1.04	0.96	0.90	
1900	15	35	2.38	2.02	1.75	1.55	1.39	1.26	1.16	1.07	1.00	
1850	10	30	2.61	2.21	1.92	1.70	1.53	1.40	1.28	1.20	1.12	
1800	any	any	2.85	2.43	2.12	1.88	1.69	1.55	1.43	1.34	1.26	
1750	any	any	3.13	2.67	2.34	2.08	1.88	1.72	1.60	1.50	1.42	
1700	any	any	3.45	2.95	2.58	2.30	2.09	1.92	1.79	1.68	1.60	
1650	any	any	3.80	3.26	2.86	2.56	2.33	2.15	2.00	1.89	1.81	
1600	any	any	4.20	3.61	3.17	2.85	2.60	2.40	2.26	2.14	2.05	
1550	any	any	4.66	4.01	3.53	3.18	2.91	2.70	2.55	2.43	2.34	
1500	any	any	5.18	4.46	3.95	3.56	3.27	3.05	2.89	2.76	2.67	
1450	any	any	5.77	4.99	4.43	4.01	3.70	3.46	3.29	3.16	3.00	
1400	any	any	6.46	5.60	4.98	4.53	4.19	3.94	3.76	3.64	3.50	
1350	any	any	7.26	6.31	5.63	5.14	4.78	4.52	4.28	4.12	4.00	
1300	any	any	8.20	7.15	6.40	5.86	5.48	5.20	5.02	4.91	4.53	
Rafter Spacing (mm)			600	700	800	900	1000	1100	1200	1300	1400	



NOTES

- (1) The Table is for Estimating Purposes Only.
Your proposed design should be checked by your Engineer.
- (2) The Table relates to Non-Trafficable Roofs
- (3) The Table allows for the Dead Load of the Rafter
- (4) The Table also accounts separately for 1.4 KN to mid span of Rafter
- (5) The Deflection Limit is Span/240
- (6) The Rafters were considered Torsionally Restrained at the Supports.

Notes on Connections

The Tables do not consider the adequacy of any connections. All connections must be checked separately.

Belle Skylights

125 Chesterville Rd, Moorabbin Vic 3189

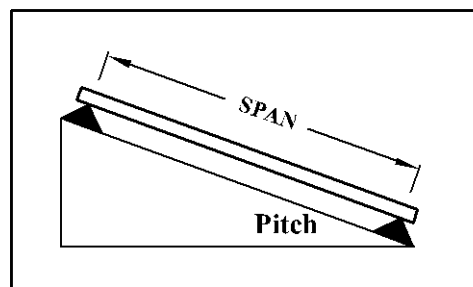
Phone: (03) 9555 2388 Fax: (03) 9532 3470

Email: info@belleskylights.com.au

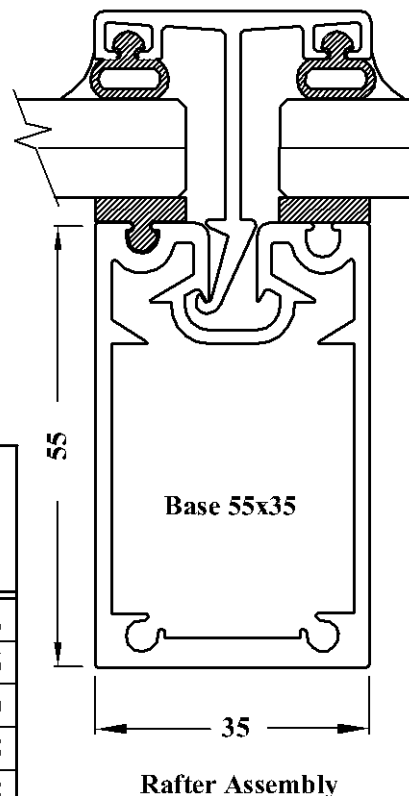
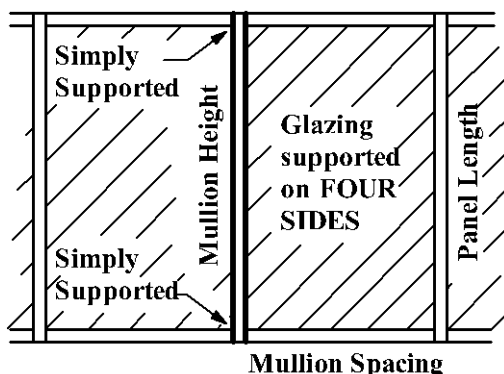
Intalok

BASE 55 mm DEEP

Table R - 2
Roof Span Chart



Rafter assembly over two supports



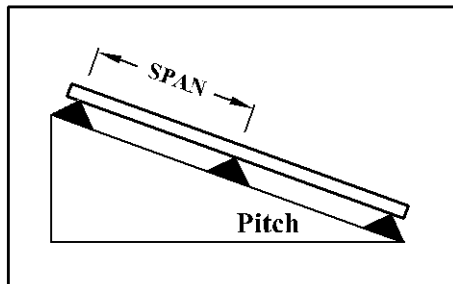
Rafter Span (mm)	Minimum Pitch	Permissible Stress Design Pressure (KPa) (The tables do not include the self weight of glass which is approx 0.026 KPa per mm of thickness)									
1550	45	1.85	1.57	1.38	1.23	1.11	1.02	0.95	0.90	0.86	0.82
1500	40	2.06	1.76	1.55	1.39	1.26	1.17	1.09	1.04	0.99	0.96
1450	35	2.31	1.98	1.75	1.57	1.44	1.34	1.26	1.20	1.16	1.10
1400	25	2.60	2.24	1.98	1.79	1.64	1.53	1.45	1.40	1.36	1.25
1350	15	2.78	2.47	2.19	1.98	1.82	1.70	1.62	1.56	1.47	1.35
1300	10	3.26	2.82	2.51	2.28	2.11	1.99	1.90	1.84	1.68	1.55
1250	any	3.72	3.23	2.88	2.63	2.45	2.33	2.24	2.11	1.94	1.79
1200	any	4.26	3.72	3.34	3.07	2.88	2.75	2.67	2.44	2.24	2.06
1150	any	4.91	4.30	3.88	3.59	3.39	3.27	3.08	2.81	2.59	2.39
1100	any	5.69	5.01	4.55	4.24	4.04	3.92	3.57	3.27	3.01	2.78
1050	any	6.64	5.89	5.38	5.06	4.86	4.56	4.15	3.81	3.51	3.25
1000	any	7.82	6.97	6.43	6.09	5.91	5.34	4.86	4.46	4.12	3.82
Rafter Spacing (mm)		600	700	800	900	1000	1100	1200	1300	1400	1500

NOTES

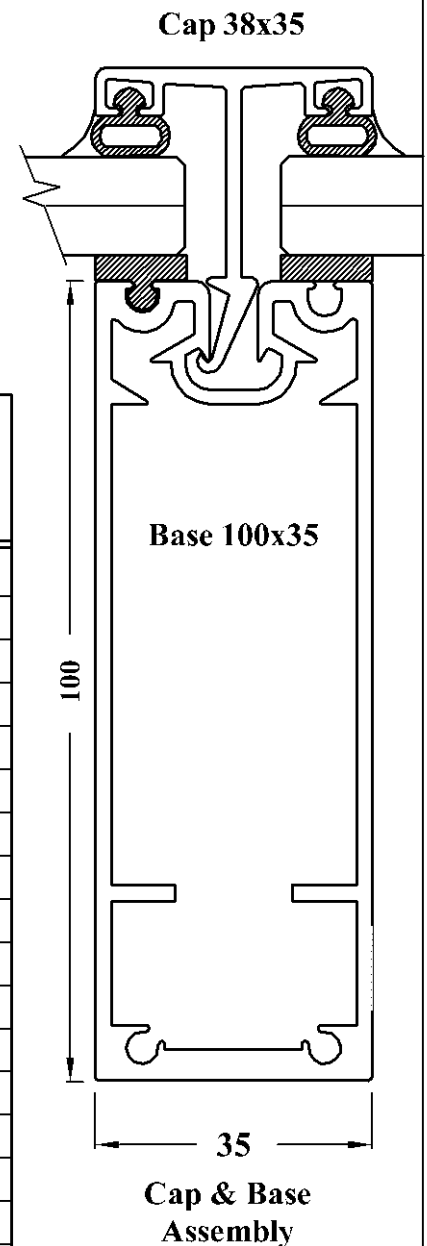
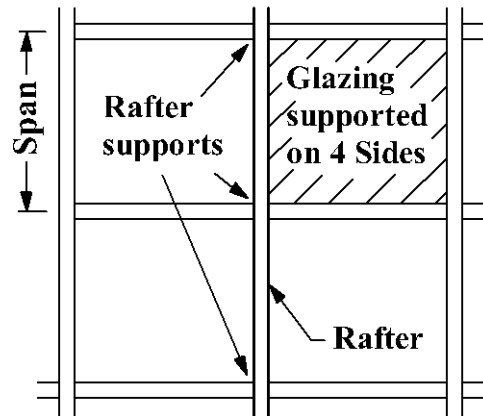
- (1) The Table is for Estimating Purposes Only.
Your proposed design should be checked by your Engineer.
- (2) The Table relates to Non-Trafficable Roofs
- (3) The Table allows for the Dead Load of the Rafter
- (4) The Table also accounts separately for 1.4 kN to mid span of Rafter
- (5) The Deflection Limit is Span/240
- (6) The Rafters were considered Torsionally Restrained at the Supports.

Notes on Connections

The Tables do not consider the adequacy of any connections. All connections must be checked separately.



Rafter assembly continuous over three supports



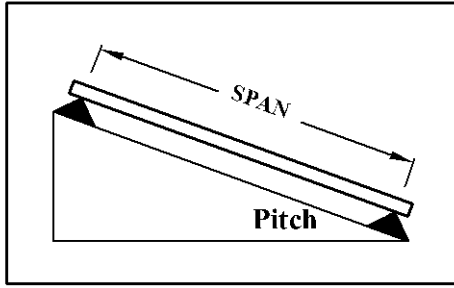
Rafter Span (mm)	Minimum Pitch	Permissible Stress Design Pressure (KPa) (The tables do not include the self weight of glass which is approx 0.026 KPa per mm of thickness)									
		1.20	1.00	0.85	0.74	0.65	0.57	0.51			
4000	50	1.20	1.00	0.85	0.74	0.65	0.57	0.51			
3900	45	1.31	1.10	0.94	0.81	0.71	0.63	0.56	0.51		
3800	40	1.44	1.20	1.03	0.90	0.79	0.70	0.63	0.57	0.51	
3700	35	1.57	1.32	1.13	0.99	0.87	0.78	0.70	0.63	0.57	0.52
3600	30	1.67	1.40	1.19	1.03	0.91	0.80	0.72	0.65	0.58	0.53
3500	25	1.84	1.54	1.32	1.15	1.01	0.90	0.80	0.73	0.66	0.60
3400	20	2.03	1.71	1.46	1.28	1.13	1.00	0.90	0.82	0.74	0.68
3300	10	2.24	1.89	1.63	1.42	1.26	1.12	1.01	0.92	0.84	0.77
3200	any	2.49	2.10	1.85	1.58	1.40	1.26	1.14	1.04	0.95	0.88
3100	any	2.76	2.33	2.01	1.77	1.57	1.41	1.28	1.17	1.07	0.99
3000	any	3.07	2.60	2.25	1.98	1.76	1.59	1.44	1.32	1.22	1.13
2900	any	3.43	2.91	2.52	2.22	1.98	1.79	1.63	1.49	1.38	1.28
2800	any	3.84	3.26	2.83	2.50	2.23	2.02	1.84	1.70	1.57	1.46
2700	any	4.31	3.67	3.19	2.82	2.53	2.29	2.09	1.93	1.79	1.67
2600	any	4.86	4.14	3.61	3.19	2.87	2.60	2.38	2.20	2.05	1.92
2500	any	5.50	4.70	4.10	3.63	3.27	2.97	2.73	2.53	2.36	2.22
2400	any	6.26	5.35	4.67	4.15	3.74	3.41	3.13	2.91	2.70	2.50
2300	any	7.15	6.12	5.35	4.76	4.30	3.92	3.62	3.30	3.08	2.88
2200	any	8.22	7.04	6.17	5.50	4.97	4.40	4.12	3.80	3.50	3.20
Rafter Spacing (mm)		600	700	800	900	1000	1100	1200	1300	1400	1500

NOTES

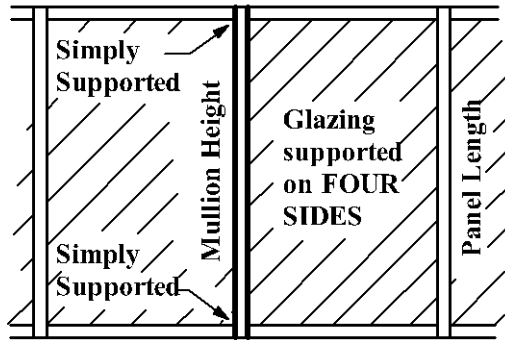
- (1) The Table is for Estimating Purposes Only.
Your proposed design should be checked by your Engineer.
- (2) The Table relates to Non-Trafficable Roofs
- (3) The Table allows for the Dead Load of the Rafter
- (4) The Table also accounts separately for 1.4 KN to mid span of Rafter
- (5) The Deflection Limit is $\text{Span}/240$
- (6) The Rafters were considered Torsionally Restrained at the Supports.

Notes on Connections

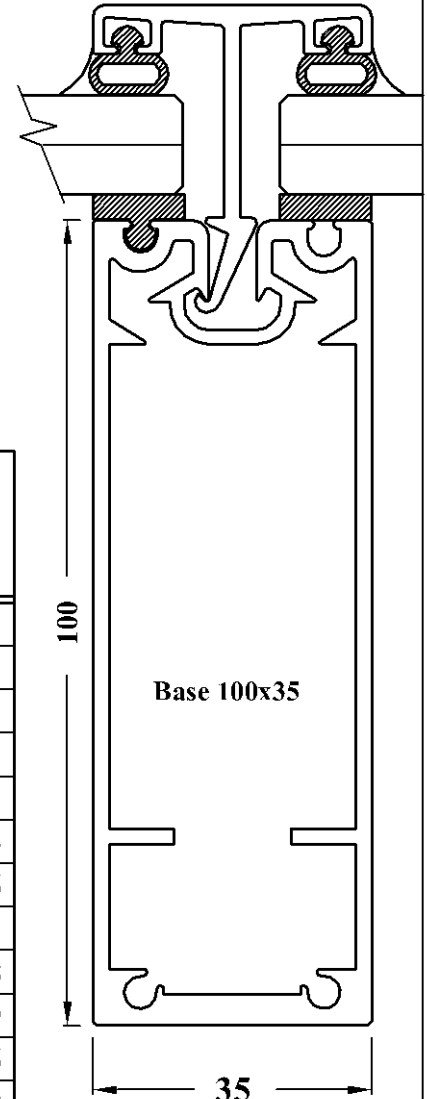
The Tables do not consider the adequacy of any connections. All connections must be checked separately.



Rafter assembly over two supports



Mullion Spacing



Rafter assembly

Rafter Span (mm)	Minimum Pitch	Permissible Stress Design Pressure (KPa) (The tables do not include the self weight of glass which is approx 0.026 KPa per mm of thickness)									
		1.06	0.88	0.75	0.64	0.56					
3100	45	1.06	0.88	0.75	0.64	0.56					
3000	40	1.19	0.99	0.84	0.73	0.64	0.57	0.51			
2900	30	1.34	1.12	0.96	0.83	0.73	0.65	0.58	0.53		
2800	20	1.45	1.21	1.03	0.89	0.78	0.69	0.62	0.55	0.50	
2700	15	1.65	1.38	1.18	1.03	0.90	0.80	0.72	0.65	0.59	0.53
2600	10	1.88	1.58	1.35	1.18	1.04	0.93	0.83	0.77	0.71	0.64
2500	any	2.14	1.81	1.56	1.36	1.21	1.08	0.98	0.90	0.82	0.76
2400	any	2.46	2.08	1.80	1.58	1.40	1.27	1.15	1.06	0.98	0.91
2300	any	2.83	2.40	2.08	1.83	1.64	1.48	1.35	1.25	1.16	1.08
2200	any	3.27	2.78	2.42	2.14	1.92	1.74	1.59	1.48	1.38	1.29
2100	any	3.80	3.24	2.83	2.51	2.25	2.05	1.89	1.76	1.65	1.56
2000	any	4.45	3.80	3.32	2.96	2.67	2.44	2.26	2.11	1.98	1.88
1900	any	5.24	4.49	3.93	3.51	3.18	2.92	2.71	2.54	2.41	2.30
1800	any	6.22	5.34	4.70	4.21	3.83	3.53	3.29	3.10	2.95	2.84
1700	any	7.46	6.42	5.66	5.09	4.65	4.30	4.04	3.83	3.67	3.55
1600	any	9.03	7.79	6.90	6.22	5.71	5.32	5.02	4.79	4.62	4.50
Rafter Spacing (mm)		600	700	800	900	1000	1100	1200	1300	1400	1500

NOTES

- (1) The Table is for Estimating Purposes Only.
Your proposed design should be checked by your Engineer.
- (2) The Table relates to Non-Trafficable Roofs
- (3) The Table allows for the Dead Load of the Rafter
- (4) The Table also accounts separately for 1.4 KN to mid span of Rafter
- (5) The Deflection Limit is Span/240
- (6) The Rafters were considered Torsionally Restrained at the Supports.

Notes on Connections

The Tables do not consider the adequacy of any connections. All connections must be checked separately.

Belle Skylights

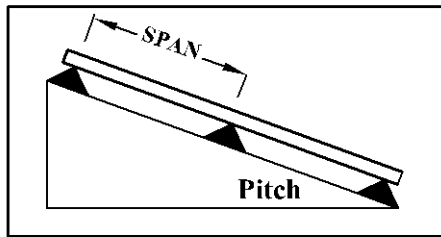
125 Chesterville Rd, Moorabbin Vic 3189

Phone: (03) 9555 2388 Fax: (03) 9532 3470

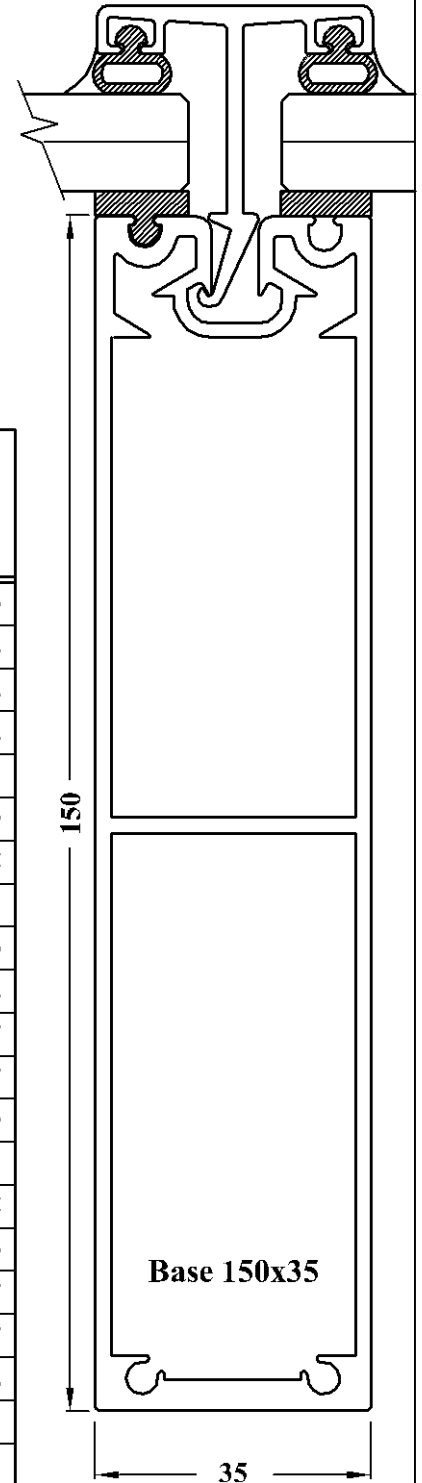
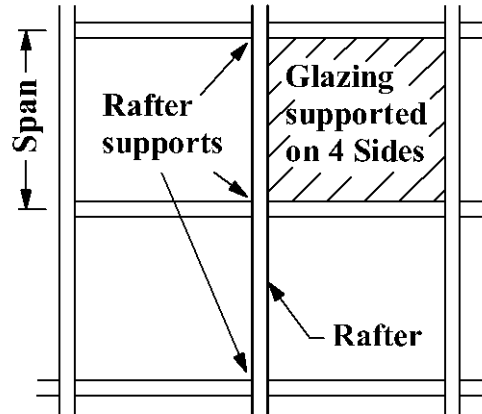
Email: info@belleskylights.com.au

Intalok
BASE 150 mm DEEP

Table R - 5
Roof Span Chart



Rafter assembly continuous over three supports



Rafter Span (mm)	Minimum Pitch	Permissible Stress Design Pressure (KPa)									
		(The tables do not include the self weight of glass which is approx 0.026 KPa per mm of thickness)									
5200	50	1.52	1.28	1.09	0.95	0.84	0.74	0.67	0.60	0.54	0.50
5100	40	1.63	1.37	1.17	1.02	0.90	0.80	0.72	0.65	0.59	0.54
5000	30	1.74	1.46	1.26	1.09	0.97	0.86	0.77	0.70	0.64	0.58
4900	20	1.80	1.51	1.29	1.12	0.98	0.87	0.78	0.70	0.63	0.58
4800	10	1.93	1.62	1.39	1.21	1.06	0.94	0.85	0.76	0.69	0.63
4700	any	2.08	1.75	1.50	1.30	1.15	1.02	0.92	0.83	0.75	0.69
4600	any	2.23	1.88	1.61	1.41	1.24	1.11	1.00	0.90	0.82	0.75
4500	any	2.40	2.02	1.74	1.52	1.35	1.20	1.08	0.98	0.90	0.82
4400	any	2.59	2.18	1.88	1.64	1.46	1.30	1.18	1.07	0.98	0.90
4300	any	2.79	2.36	2.03	1.78	1.58	1.42	1.28	1.16	1.07	0.98
4200	any	3.01	2.55	2.20	1.93	1.71	1.54	1.39	1.27	1.16	1.07
4100	any	3.26	2.76	2.38	2.09	1.86	1.67	1.52	1.38	1.27	1.17
4000	any	3.53	2.99	2.59	2.28	2.03	1.82	1.65	1.51	1.39	1.29
3900	any	3.83	3.25	2.81	2.48	2.21	1.99	1.81	1.65	1.52	1.41
3800	any	4.16	3.53	3.06	2.70	2.41	2.17	1.97	1.81	1.67	1.55
3700	any	4.53	3.85	3.34	2.94	2.63	2.37	2.16	1.98	1.83	1.70
3600	any	4.94	4.20	3.65	3.22	2.88	2.60	2.37	2.18	2.01	1.87
3500	any	5.39	4.59	3.99	3.53	3.16	2.86	2.61	2.40	2.22	2.07
3400	any	5.91	5.03	4.38	3.87	3.47	3.14	2.87	2.64	2.45	2.28
3300	any	6.49	5.53	4.82	4.26	3.82	3.47	3.17	2.92	2.71	2.53
3200	any	7.14	6.09	5.31	4.70	4.22	3.83	3.51	3.24	3.01	2.81
3100	any	7.88	6.73	5.87	5.20	4.68	4.25	3.89	3.59	3.34	3.13
3000	any	8.72	7.45	6.51	5.77	5.19	4.72	4.33	4.00	3.73	3.49
Rafter Spacing (mm)		600	700	800	900	1000	1100	1200	1300	1400	1500

NOTES

- (1) The Table is for Estimating Purposes Only.
Your proposed design should be checked by your Engineer.
- (2) The Table relates to Non-Trafficable Roofs
- (3) The Table allows for the Dead Load of the Rafter
- (4) The Table also accounts separately for 1.4 kN to mid span of Rafter
- (5) The Deflection Limit is Span/240
- (6) The Rafters were considered Torsionally Restrained at the Supports.

Notes on Connections

The Tables do not consider the adequacy of any connections. All connections must be checked separately.

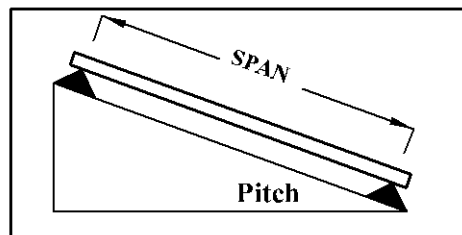
Belle Skylights

125 Chesterville Rd, Moorabbin Vic 3189
Phone: (03) 9555 2388 Fax: (03) 9532 3470
Email: info@belleskylights.com.au

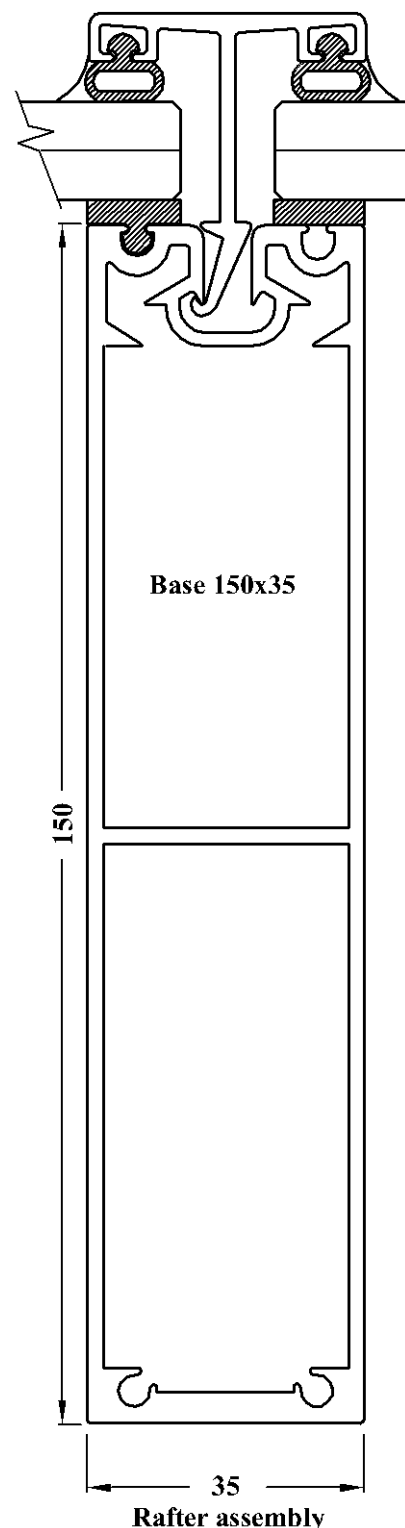
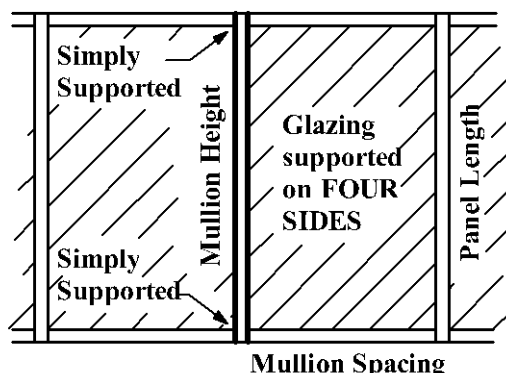
Intalok

BASE 150 mm DEEP

Table R - 6
Roof Span Chart



Rafter assembly over two supports



Rafter Span (mm)	Minimum Pitch	Permissible Stress Design Pressure (KPa)									
		(The tables do not include the self weight of glass which is approx 0.026 KPa per mm of thickness)									
4100	40	1.26	1.06	0.90	0.78	0.68	0.60	0.54			
4000	30	1.38	1.15	0.99	0.85	0.75	0.67	0.60	0.54		
3900	20	1.50	1.26	1.08	0.94	0.83	0.73	0.66	0.59	0.54	
3800	10	1.58	1.32	1.13	0.98	0.85	0.76	0.67	0.60	0.54	0.64
3700	any	1.74	1.45	1.24	1.08	0.95	0.84	0.75	0.68	0.61	0.56
3600	any	1.91	1.60	1.37	1.19	1.05	0.93	0.84	0.76	0.69	0.63
3500	any	2.10	1.76	1.51	1.32	1.17	1.04	0.94	0.85	0.77	0.71
3400	any	2.31	1.95	1.68	1.46	1.30	1.16	1.05	0.95	0.87	0.80
3300	any	2.55	2.16	1.86	1.63	1.44	1.29	1.17	1.07	0.98	0.90
3200	any	2.82	2.39	2.06	1.81	1.61	1.45	1.31	1.20	1.10	1.02
3100	any	3.13	2.65	2.30	2.02	1.80	1.62	1.47	1.35	1.24	1.15
3000	any	3.48	2.96	2.56	2.26	2.01	1.82	1.65	1.52	1.40	1.30
2900	any	3.88	3.30	2.86	2.53	2.26	2.04	1.86	1.71	1.58	1.48
2800	any	4.35	3.70	3.21	2.84	2.54	2.30	2.10	1.94	1.80	1.68
2700	any	4.88	4.16	3.62	3.20	2.87	2.60	2.38	2.20	2.05	1.92
2600	any	5.50	4.69	4.09	3.62	3.25	2.96	2.71	2.51	2.34	2.19
2500	any	6.22	5.31	4.63	4.11	3.70	3.37	3.10	2.87	2.68	2.52
2400	any	7.07	6.04	5.28	4.69	4.23	3.86	3.55	3.30	3.09	2.92
2300	any	8.07	6.91	6.05	5.38	4.86	4.44	4.10	3.82	3.59	3.39
2200	any	9.27	7.94	6.96	6.21	5.62	5.14	4.76	4.45	4.19	3.97
Rafter Spacing (mm)		600	700	800	900	1000	1100	1200	1300	1400	1500

NOTES

- (1) The Table is for Estimating Purposes Only.
Your proposed design should be checked by your Engineer.
- (2) The Table relates to Non-Trafficable Roofs
- (3) The Table allows for the Dead Load of the Rafter
- (4) The Table also accounts separately for 1.4 KN to mid span of Rafter
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- (6) The Rafters were considered Torsionally Restrained at the Supports.

Notes on Connections

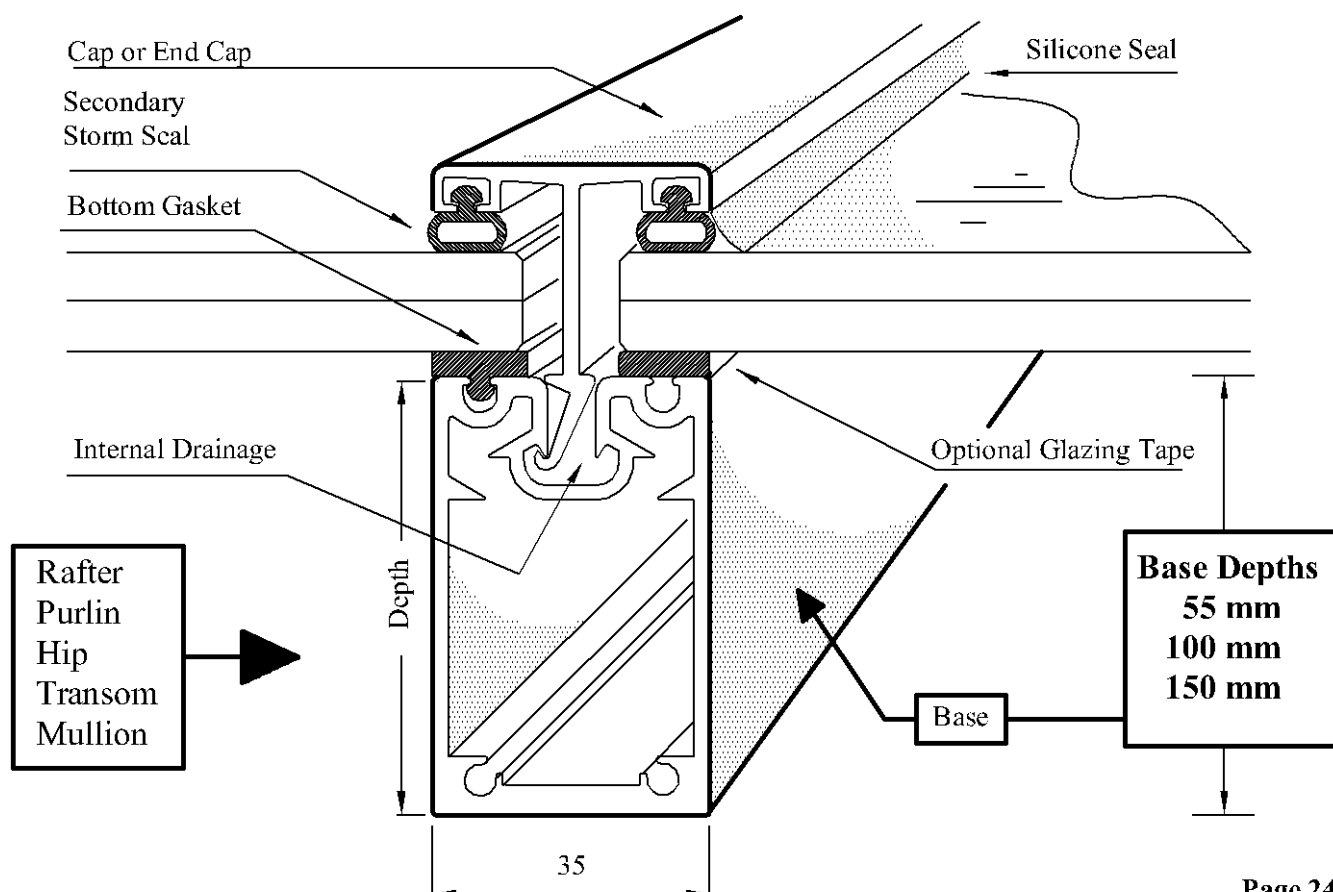
The Tables do not consider the adequacy of any connections. All connections must be checked separately.

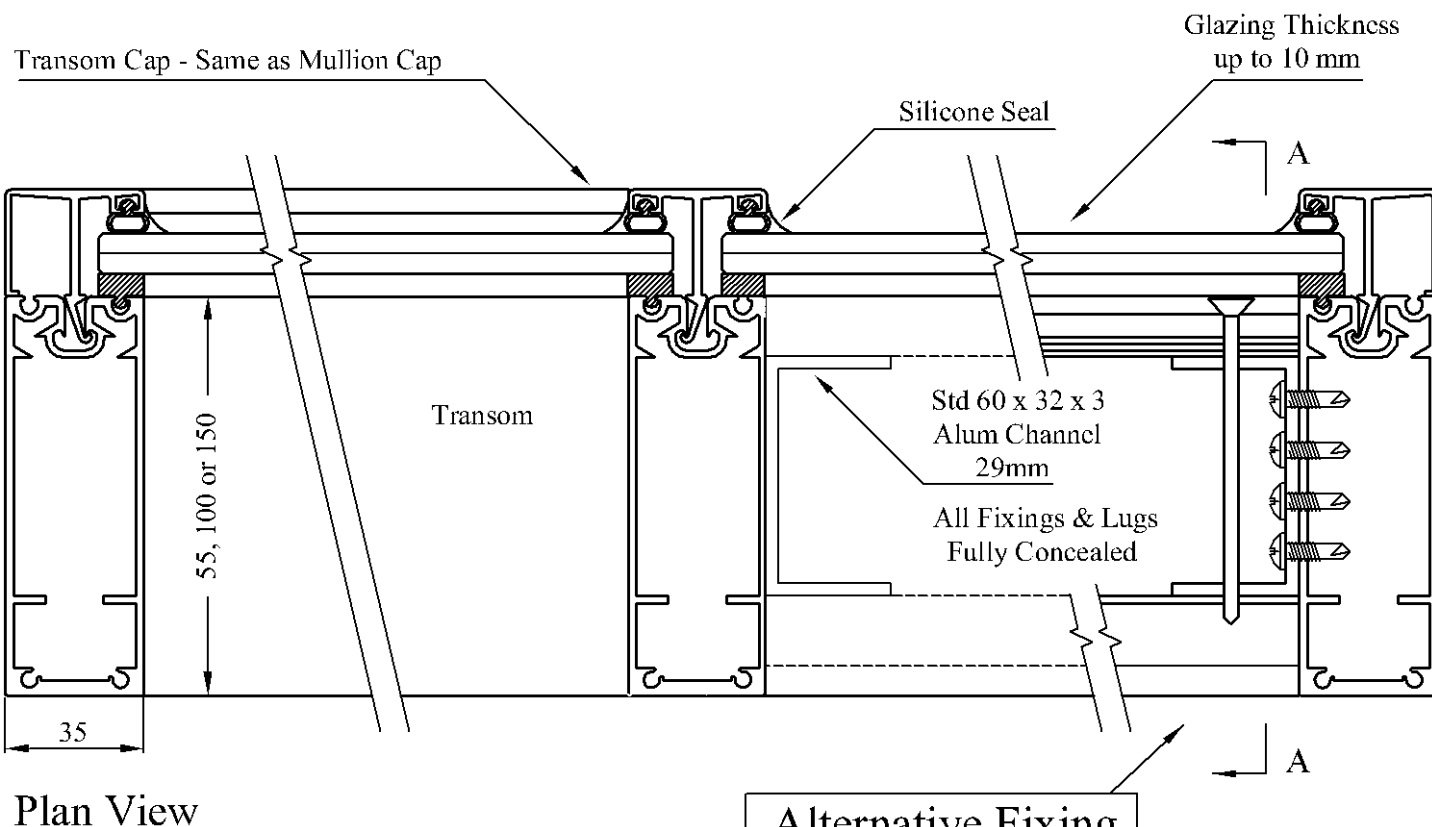
***Intalok* Glazing System**

Vertical Glazing Applications

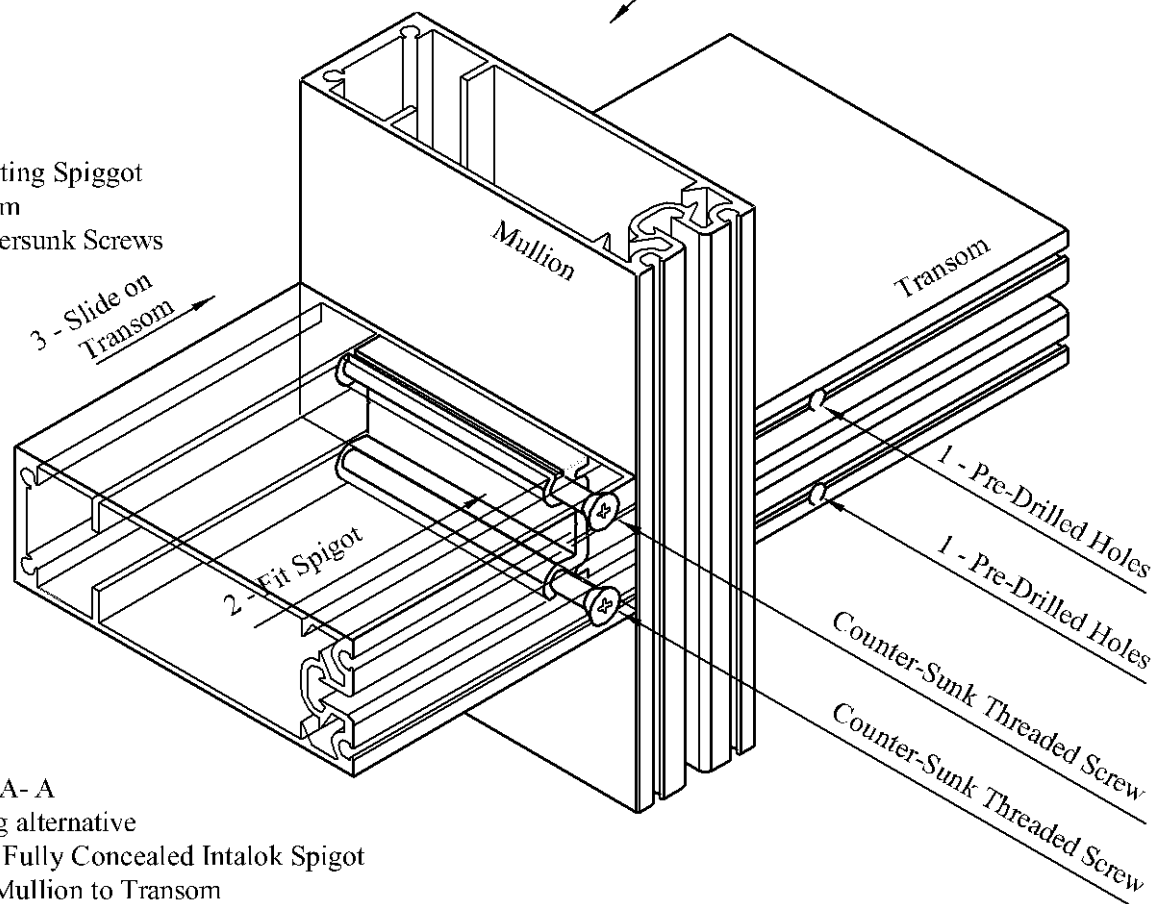
Advantages & Unique Features

Ultra Thin Sections	35mm Wide Sections, Maximizes Daylight
All Common Uses	Single and Double Glazing
Fast/Simple Assembly	Smart Sections Reduce Labour/Skill
Pre-Fitted Secondary Seals	Instant Dry Seal Minimizes Silicone
Secondary Storm Seals	Precise preset Compression Seals
Fast Fit <i>Intalok</i> Caps	Effortless Glazing Installation
Slide on Transoms	Fast Accurate On-Site Installation
Concealed Fixings	Fully Concealed Mullion /Transom Fixings
Optimum Strength and Stiffness	Engineered for Economical High Spans
High Strength Glazing Caps	<i>Intalok</i> Cap to Base Mechanism
Fast Glazing Replacement	Using the <i>Intalok</i> Mechanism
Self Locking Cap	<i>Intalok</i> Two Way Servo Grip to Glazing
Internal Storm Drain	Conducts Away Storm Moisture
Knife Edge Thermal Barrier	Minimizes Moisture Condensation
Universal Rafter/Transom Section	Minimizes Stock/Storage

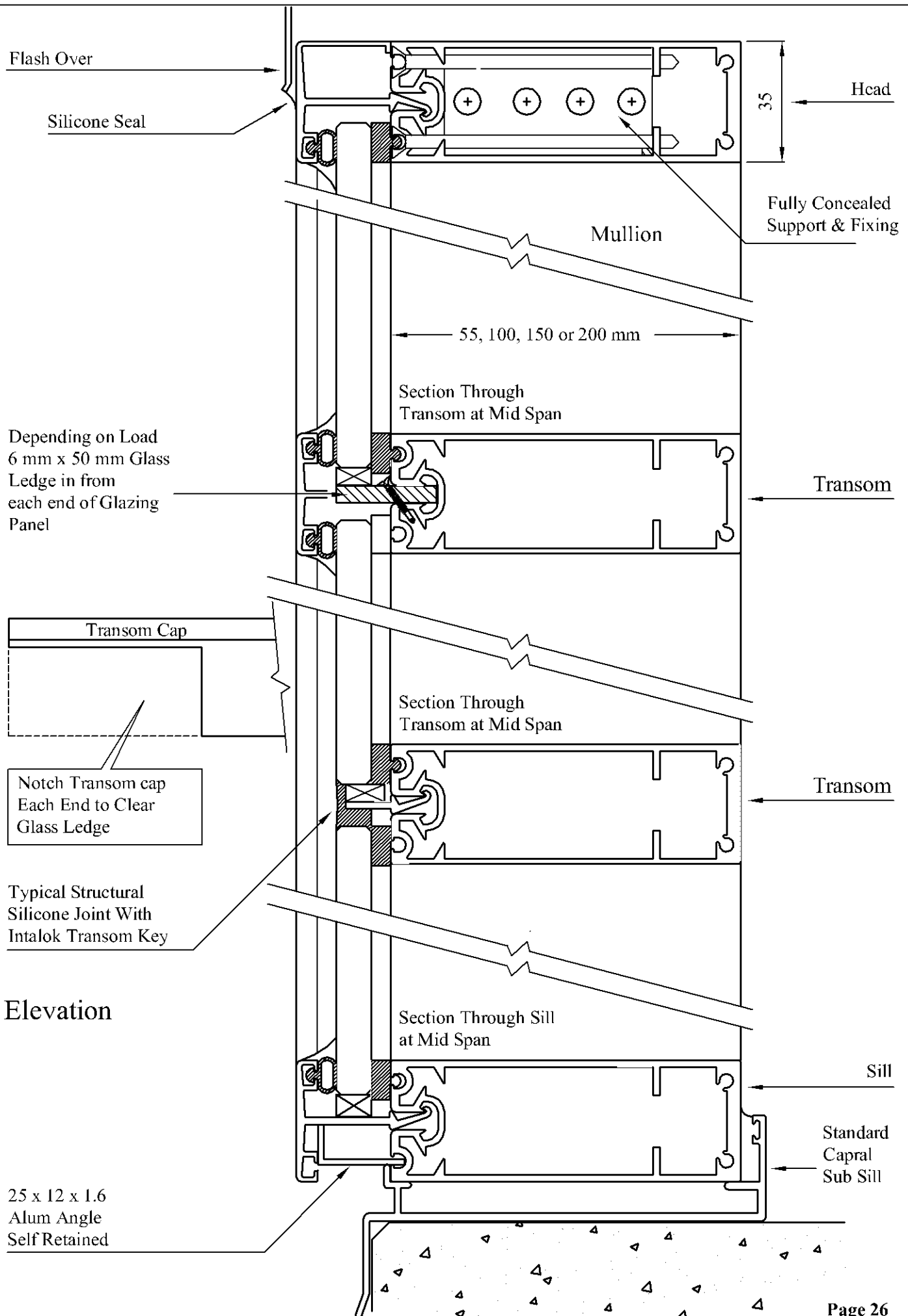




- 1 - Pre-Drill Holes
- 2 - Screw on Mounting Spigot
- 3 - Slide on Transom
- 4 - Screw in Countersunk Screws



Detail A-A
Showing alternative
Internal Fully Concealed Intalok Spigot
Fixing Mullion to Transom



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Intalok

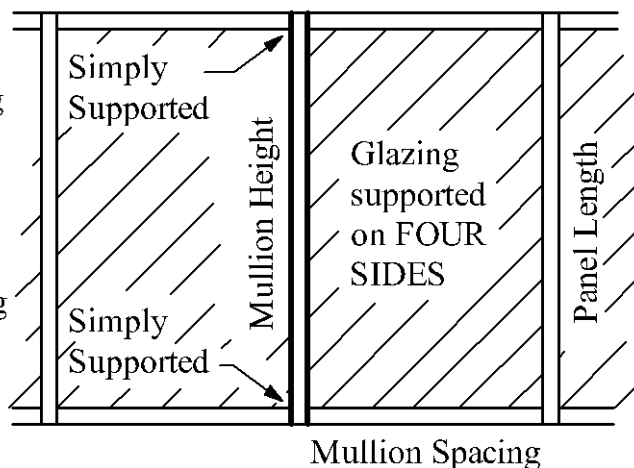
BASE 55 mm DEEP

Table V - 1

Vertical Glazing

Span Chart

These tables are not for determining glass thickness. Select glazing type and thickness in accordance with the relevant glazing code.



Mullion Spacing

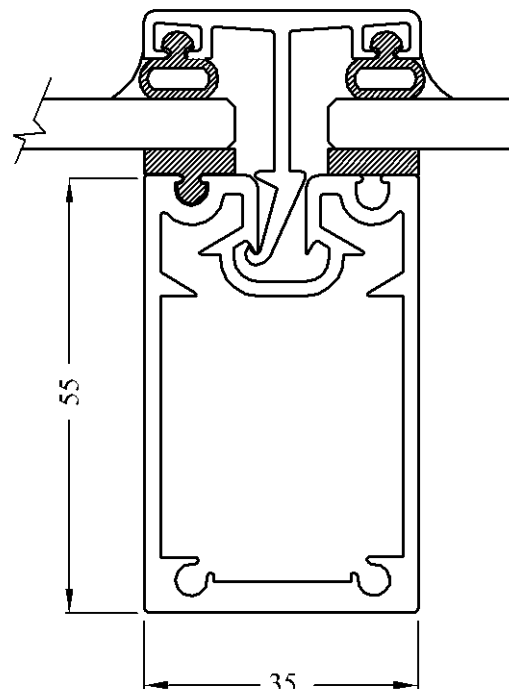


Table for the Vertical Mullion

Mullion Height (mm)		Maximum Design Pressure (KPa)							
2200	S	0.57							
	U	2.85							
2100	S	0.65	0.58	0.53					
	U	3.13	2.81	2.56					
2000	S	0.75	0.68	0.62	0.57	0.53	0.50		
	U	3.47	3.12	2.84	2.62	2.44	2.29		
1900	S	0.88	0.80	0.73	0.68	0.63	0.60	0.57	0.54
	U	3.86	3.47	3.17	2.93	2.73	2.57	2.44	2.33
1800	S	1.05	0.95	0.87	0.81	0.76	0.72	0.68	0.66
	U	4.33	3.90	3.56	3.30	3.08	2.91	2.77	2.65
1700	S	1.25	1.14	1.04	0.97	0.91	0.87	0.83	0.81
	U	4.88	4.41	4.04	3.74	3.51	3.32	3.17	3.05
1600	S	1.52	1.38	1.27	1.19	1.12	1.07	1.03	1.00
	U	5.55	5.02	4.61	4.29	4.04	3.84	3.68	3.56
1500	S	1.87	1.70	1.57	1.47	1.40	1.34	1.30	1.28
	U	6.38	5.79	5.33	4.98	4.70	4.49	4.33	4.21
1400	S	2.33	2.13	1.98	1.86	1.78	1.72	1.68	1.68
	U	7.41	6.74	6.24	5.85	5.55	5.33	5.18	5.18
1300	S	2.96	2.72	2.54	2.41	2.32	2.27	2.27	2.27
	U	8.71	7.97	7.41	6.99	6.68	6.47	6.47	6.47
Mullion Spacing (mm)		800	900	1000	1100	1200	1300	1400	1500

NOTES

- (1) The Table is for Estimating Purposes Only.
Your proposed design should be checked by your Engineer.
- (2) The Table relates to Vertical Glazing Frames
- (3) The Mullions were considered Torsionally Restrained at the Supports.
- (4) The values are calculated and are not the results of any tests.

S = Serviceability Limit State L/250

U = Ultimate State Method

Notes on Connections

The Tables do not consider the adequacy of any connections. All connections must be checked separately.

These tables are not for determining glass thickness. Select glazing type and thickness in accordance with the relevant glazing code.

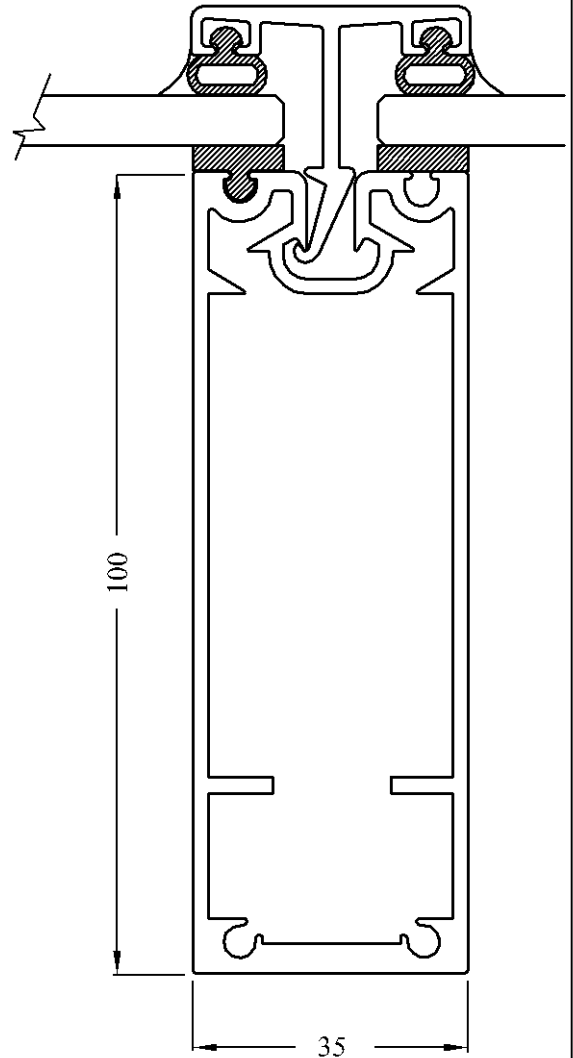
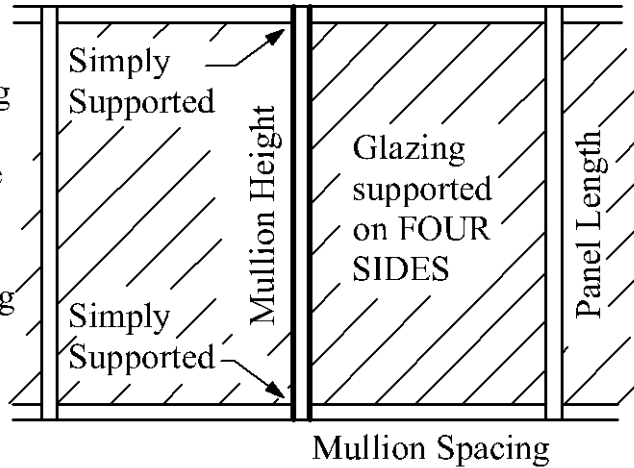


Table for Vertical Mullion Only

Mullion Height (mm)		Maximum Design Pressures (KPa)						
3800	S	0.49						
	U	2.36						
3600	S	0.58	0.46					
	U	2.63	2.12					
3400	S	0.69	0.55	0.47				
	U	2.96	2.38	2.00				
3200	S	0.83	0.67	0.56	0.49			
	U	3.34	2.70	2.27	1.97			
3000	S	1.01	0.81	0.69	0.60	0.53	0.49	
	U	3.81	3.08	2.60	2.26	2.01	1.83	
2800	S	1.24	1.01	0.85	0.75	0.67	0.61	0.57
	U	4.39	3.55	3.00	2.62	2.34	2.13	1.97
2600	S	1.56	1.27	1.08	0.94	0.85	0.78	0.73
	U	5.11	4.14	3.51	3.07	2.75	2.52	2.34
2400	S	1.99	1.62	1.39	1.22	1.11	1.02	0.96
	U	6.02	4.90	4.16	3.66	3.29	3.03	2.83
2200	S	2.60	2.13	1.83	1.62	1.48	1.38	1.31
	U	7.21	5.88	5.02	4.43	4.01	3.72	3.51
2000	S	3.50	2.88	2.48	2.22	2.05	1.93	1.87
	U	8.79	7.20	6.18	5.49	5.02	4.70	4.50
Mullion Spacing (mm)		800	1000	1200	1400	1600	1800	2000

NOTES

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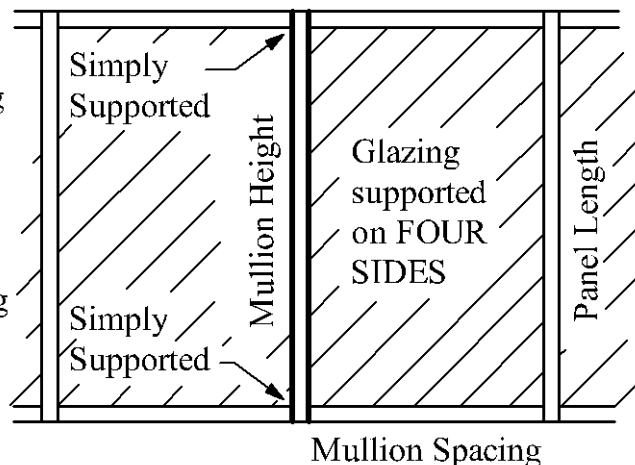
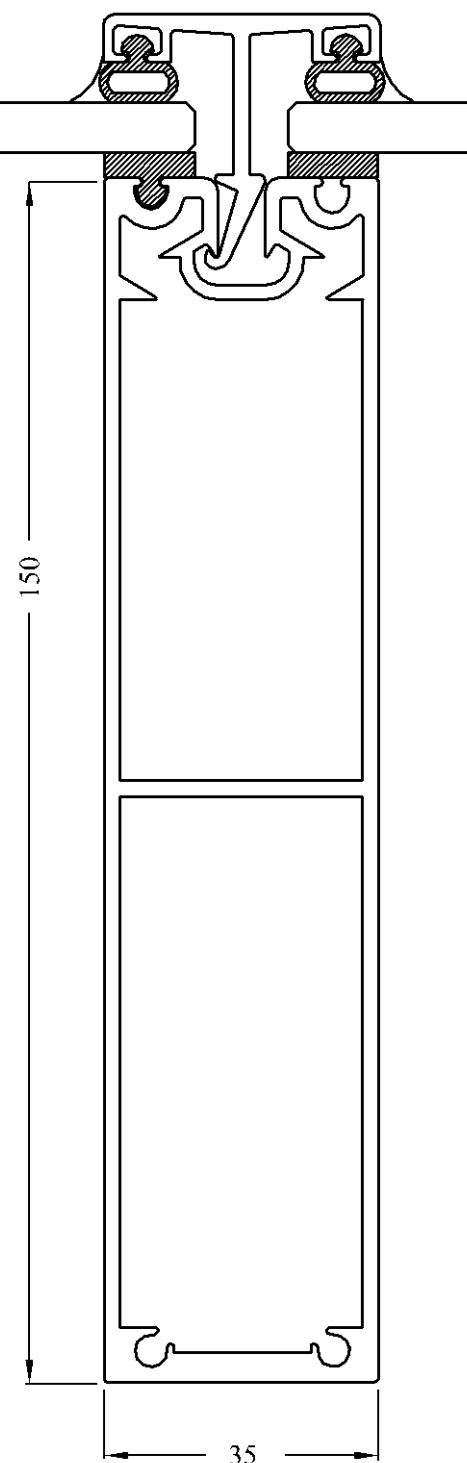


Table for Vertical Mullion Only

Mullion Height (mm)		Maximum Design Pressure (KPa)							
4800	S	0.66	0.53						
	U	2.61	2.10						
4600	S	0.75	0.60	0.50					
	U	2.84	2.28	1.91					
4400	S	0.86	0.69	0.58	0.50				
	U	3.11	2.50	2.09	1.81				
4200	S	0.99	0.80	0.67	0.58	0.51			
	U	3.42	2.75	2.30	1.99	1.75			
4000	S	1.15	0.92	0.77	0.67	0.59	0.53		
	U	3.77	3.03	2.55	2.20	1.94	1.75		
3800	S	1.34	1.08	0.91	0.79	0.70	0.63	0.57	0.53
	U	4.18	3.37	2.83	2.45	2.16	1.95	1.78	1.64
3600	S	1.58	1.27	1.07	0.93	0.82	0.74	0.68	0.63
	U	4.67	3.76	3.16	2.74	2.42	2.18	2.00	1.85
3400	S	1.88	1.52	1.28	1.11	0.99	0.89	0.82	0.76
	U	5.24	4.23	3.56	3.08	2.73	2.47	2.26	2.10
3200	S	2.26	1.83	1.54	1.34	1.20	1.09	1.00	0.93
	U	5.93	4.79	4.03	3.50	3.11	2.81	2.59	2.40
3000	S	2.75	2.23	1.88	1.64	1.47	1.34	1.24	1.16
	U	6.76	5.47	4.61	4.01	3.57	3.24	2.99	2.79
2800	S	3.40	2.75	2.34	2.04	1.83	1.67	1.56	1.47
	U	7.79	6.30	5.33	4.65	4.15	3.78	3.49	3.28
Mullion Spacing (mm)		800	1000	1200	1400	1600	1800	2000	2200



NOTES

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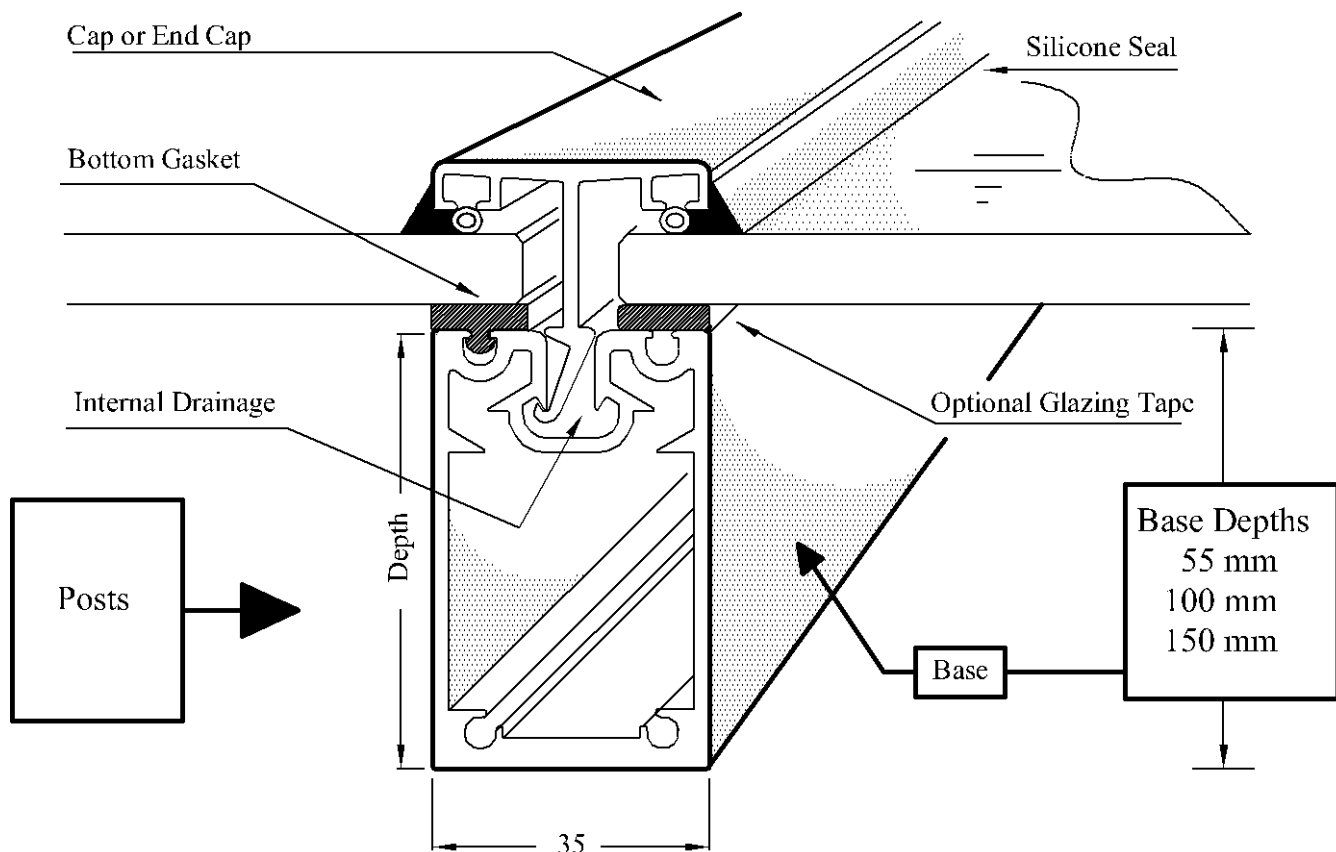
Notes on Connections

The Tables do not consider the adequacy of any connections. All connections must be checked separately.

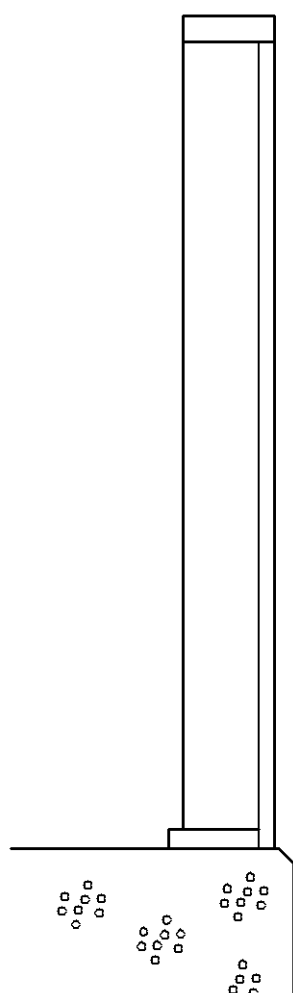
***Intalok* Glazed Balustrades**

Advantages & Unique Features

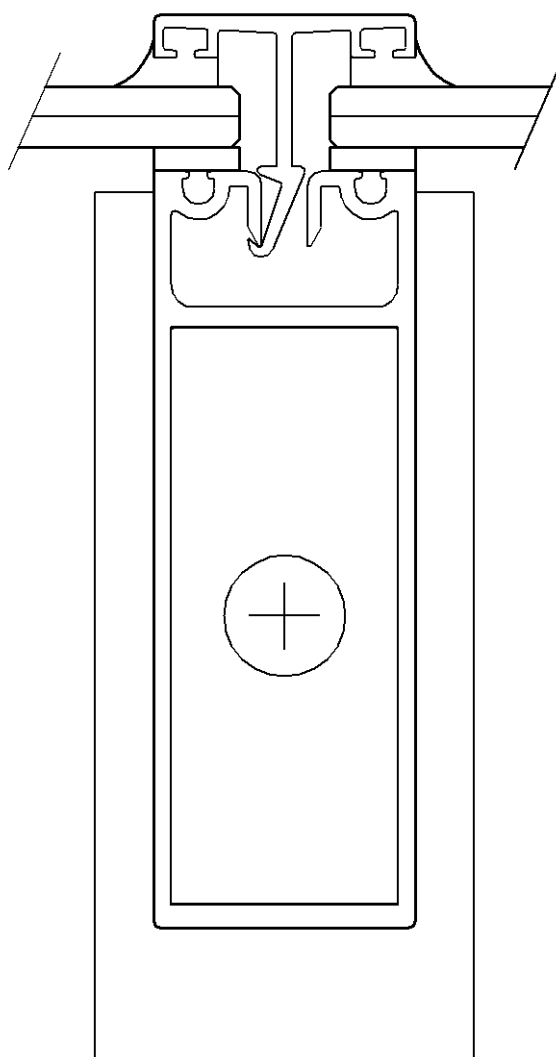
Ultra Thin Sections	..... 35mm Wide Sections, Maximizes Daylight
All Common Uses	..... Various Glass Thicknesses
Fast/Simple Assembly	..... Smart Sections Reduce Labour/Skill
Pre-Fitted Base Seals	..... Instant Dry Seal Minimizes Silicone
Fast Fit <i>Intalok</i> Caps	..... Effortless Glazing Installation
Slide on Transoms	..... Fast Accurate On-Site Installation
Concealed Fixings	..... Fully Concealed Fixings
Optimum Strength and Stiffness	..... Engineered to be Economical
High Strength Glazing Caps	..... <i>Intalok</i> Cap to Base Mechanism
Fast Glazing Replacement	..... Using the <i>Intalok</i> Mechanism
Self Locking Cap	..... <i>Intalok</i> Two Way Servo Grip to Glazing
Internal Storm Drain	..... Conducts Away Storm Moisture
Knife Edge Thermal Barrier	..... Minimizes Moisture Condensation
Universal Rafter/Transom Section	..... Minimizes Stock/Storage



Intalok Glazed Balustrade

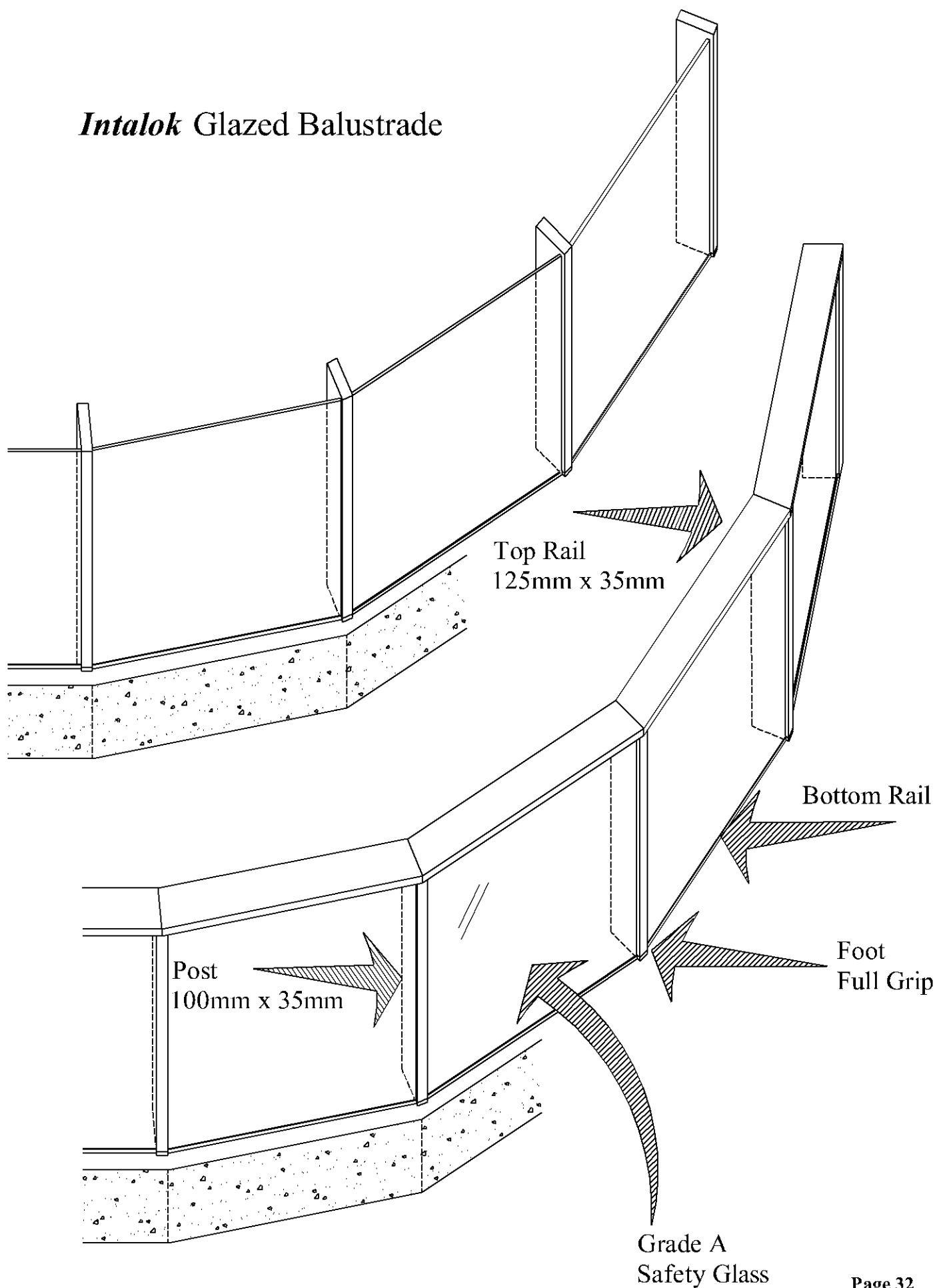


SIDE
ELEVATION
of Post
Scale 1:10



PLAN VIEW
of
SECTION through post
Scale 1:1

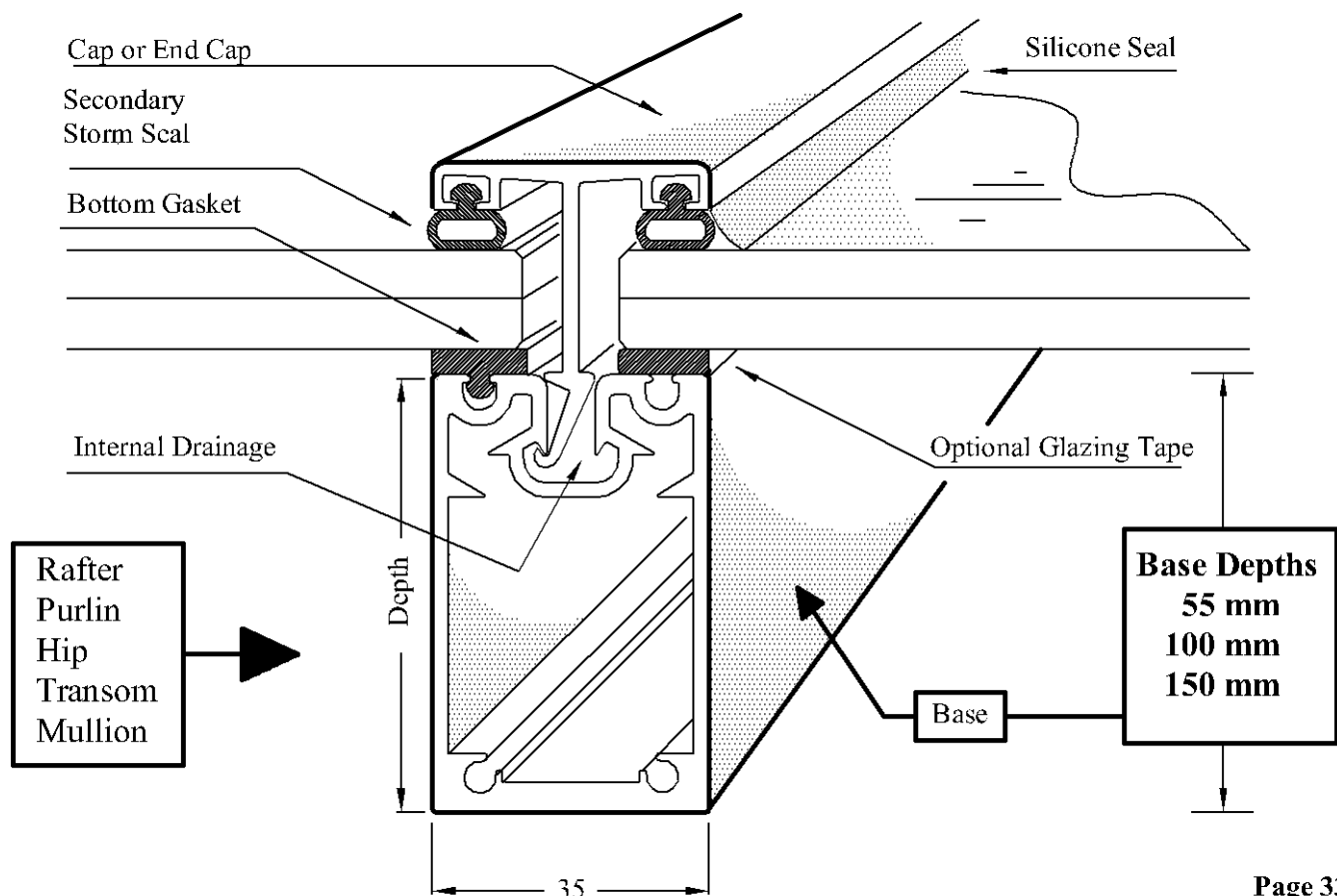
Intalok Glazed Balustrade



***Intalok* Glazing System**

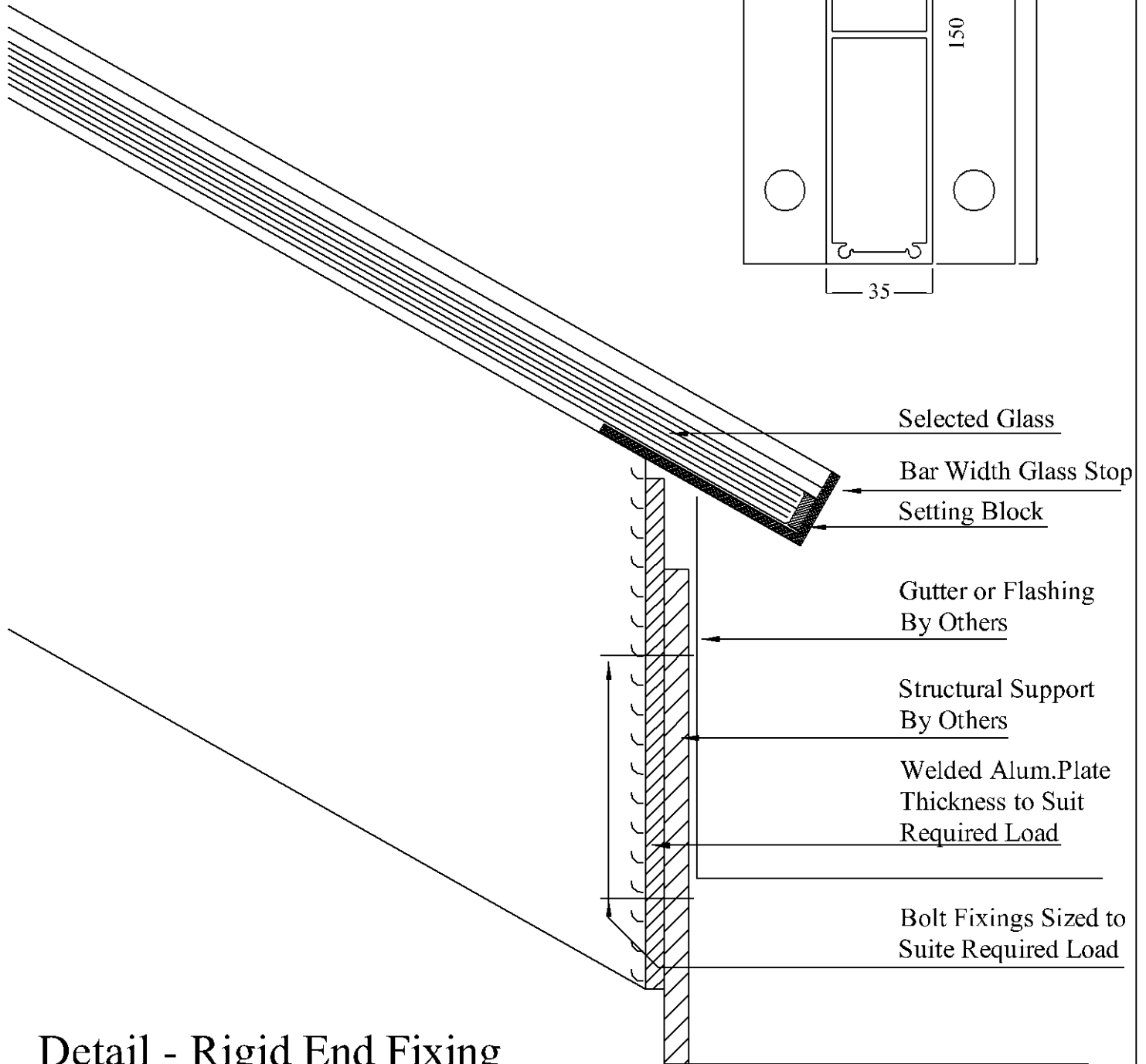
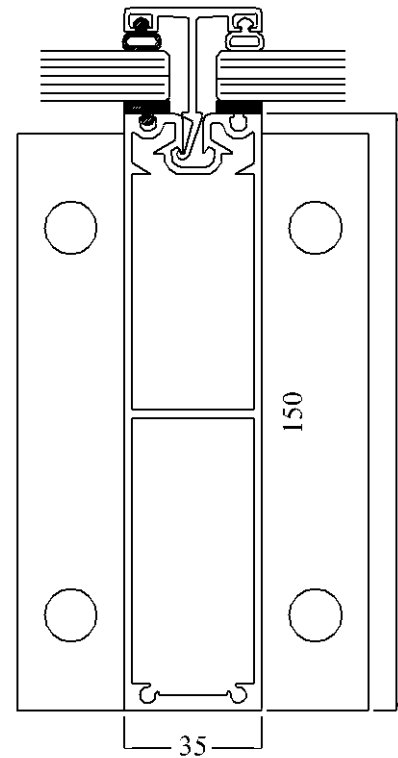
Miscellaneous Details

Ultra Thin Sections 35mm Wide Sections, Maximizes Daylight
All Common Uses Single and Double Glazing
Fast/Simple Assembly Smart Sections Reduce Labour/Skill
Pre-Fitted Secondary Seals Instant Dry Seal Minimizes Silicone
Secondary Storm Seals Precise preset Compression Seals
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Knife Edge Thermal Barrier Minimizes Moisture Condensation
Universal Rafter/Transom Section Minimizes Stock/Storage



Typical Section Through *Intalok* 150mm Deep Glazing Rafter

Scale 1:2



Detail - Rigid End Fixing

Scale 1:2

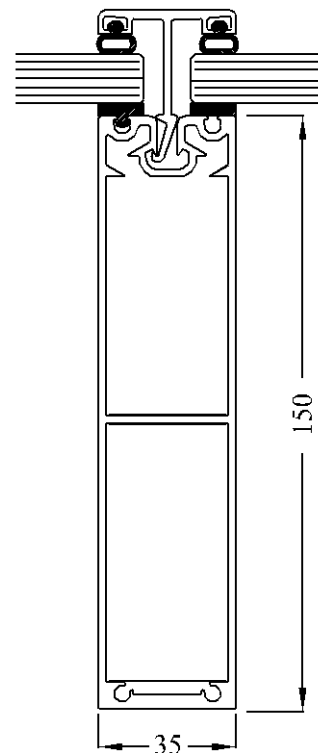
Contact

Belle Skylights

125 Chesterville Rd, Moorabbin Vic 3189
Phone: (03) 9555 2388 Fax: (03) 9532 3470
Email: info@belleskylights.com.au

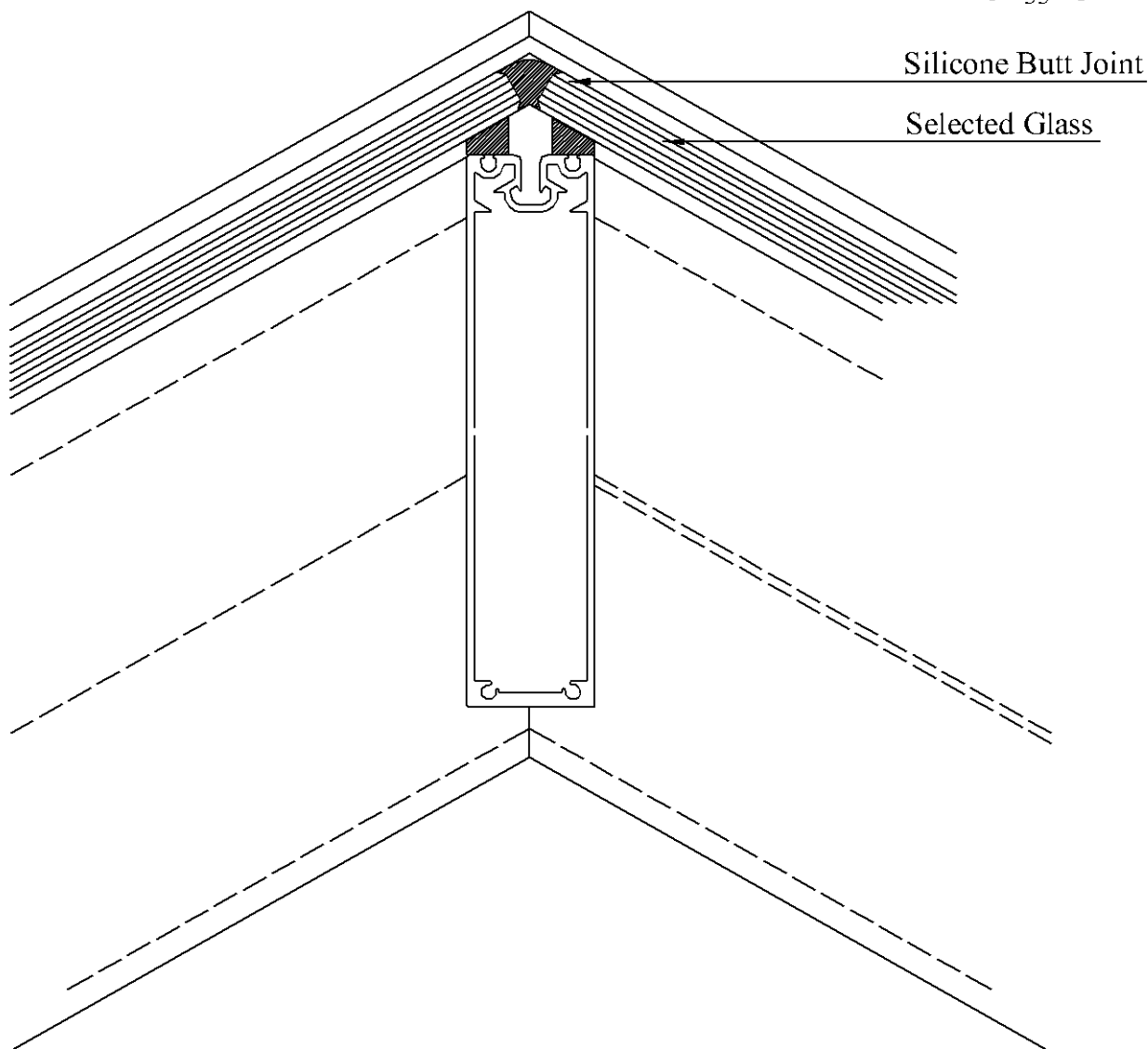
Typical Section Through *Intalok* 150mm Deep Glazing Rafter

Scale 1:2



Typical Section Through Ridge Beam Connection

Scale 1:2



Contact

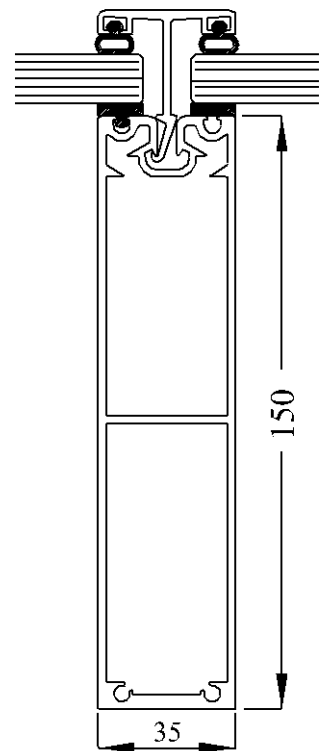
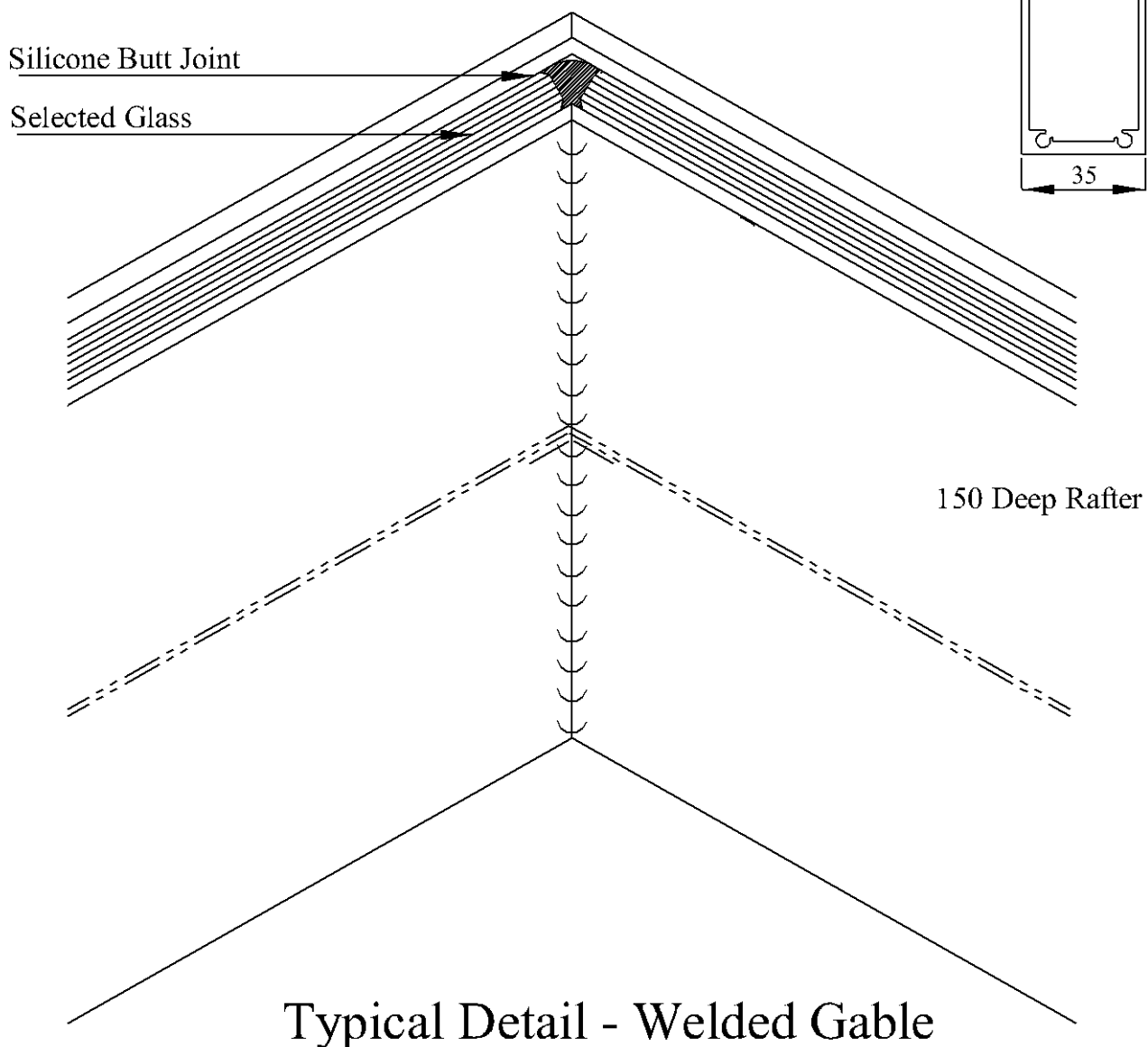
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Page 35

Typical Section Through *Intalok* 150mm Deep Glazing Rafter

Scale 1:2



Typical Detail - Welded Gable

Scale 1:2

Contact

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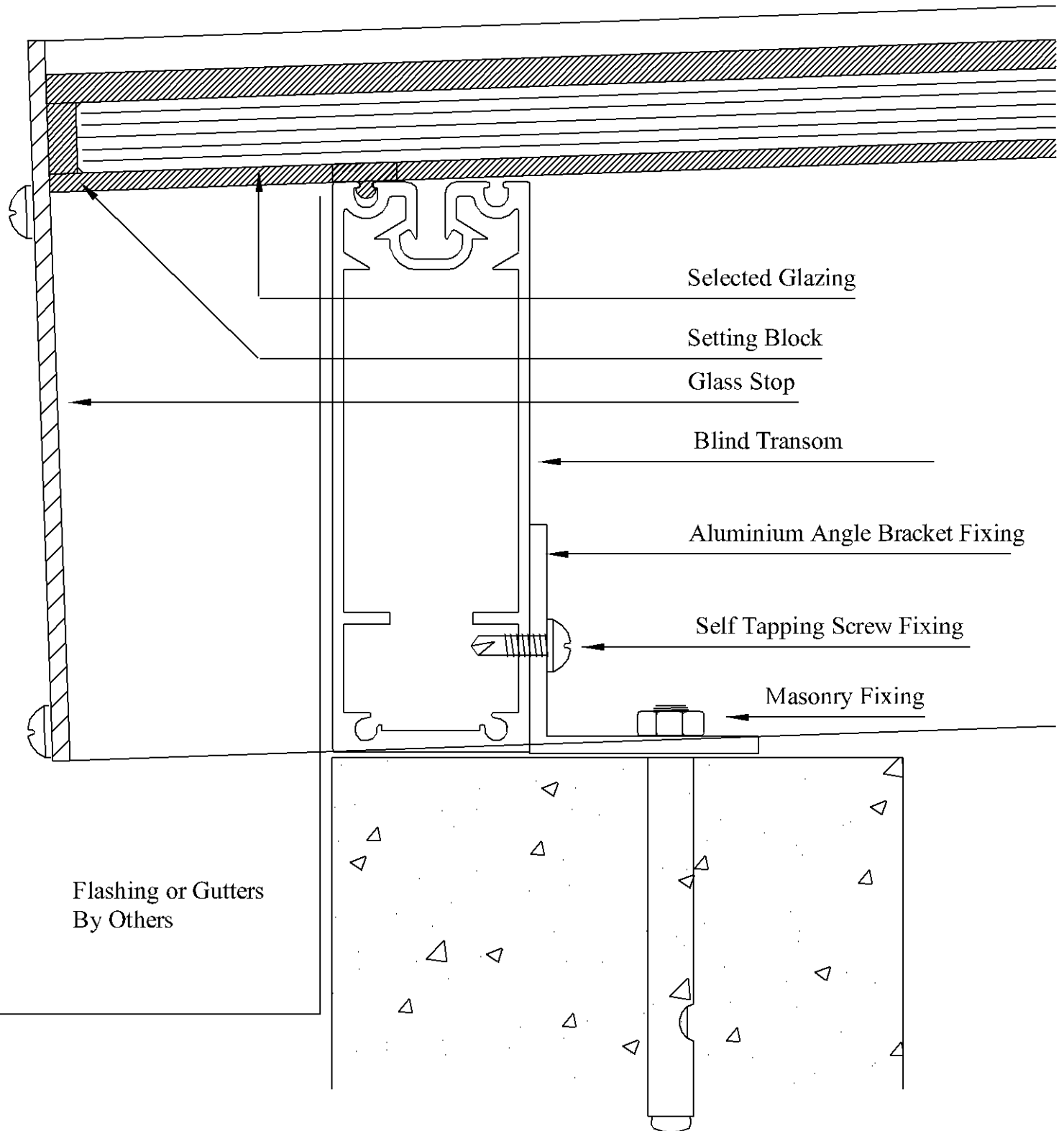
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Intalok 100mm Deep Glazing Rafter Scale 1:1



Typical Detail - Rafter Lower (Gutter) End
Two Side Support

Contact

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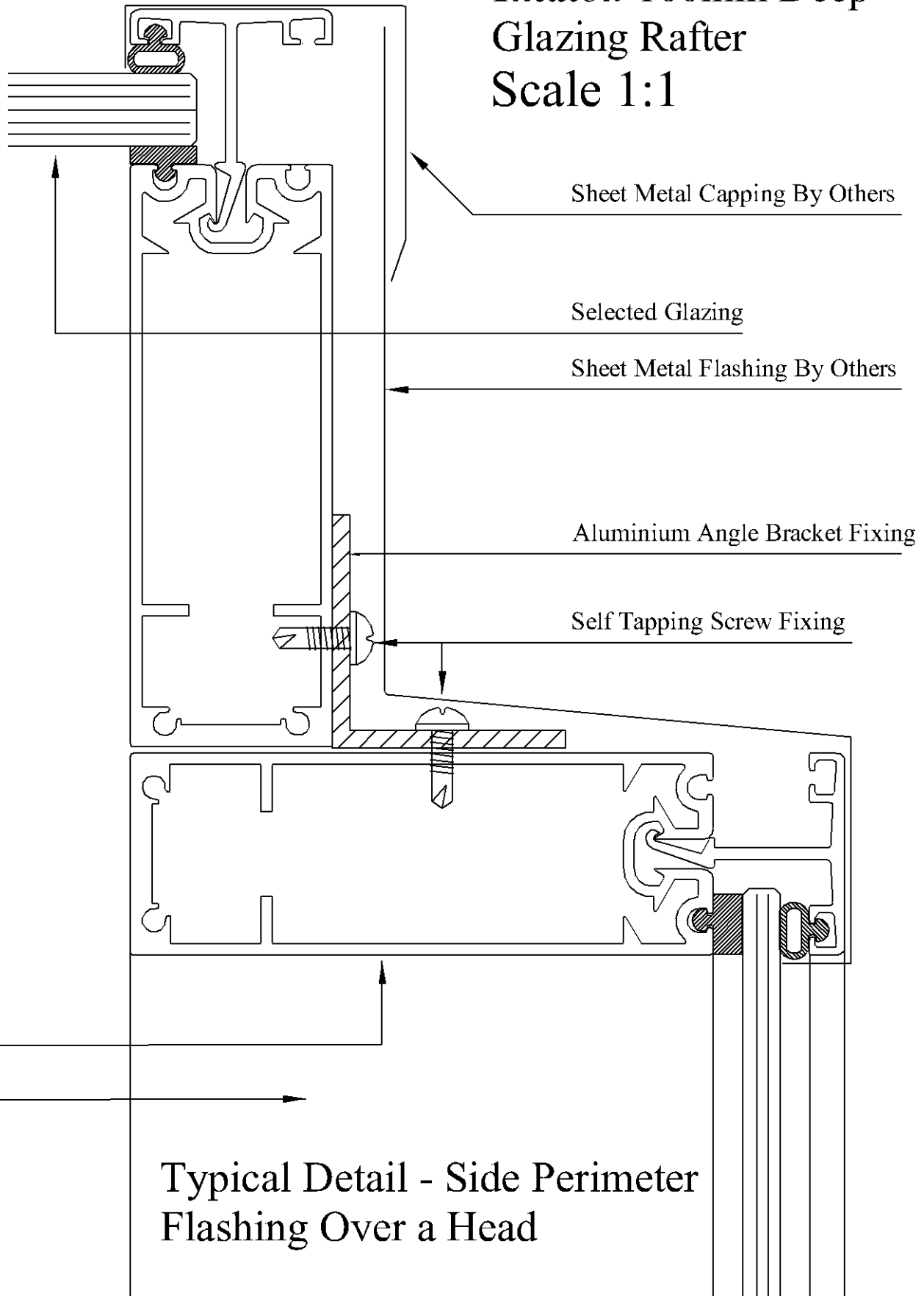
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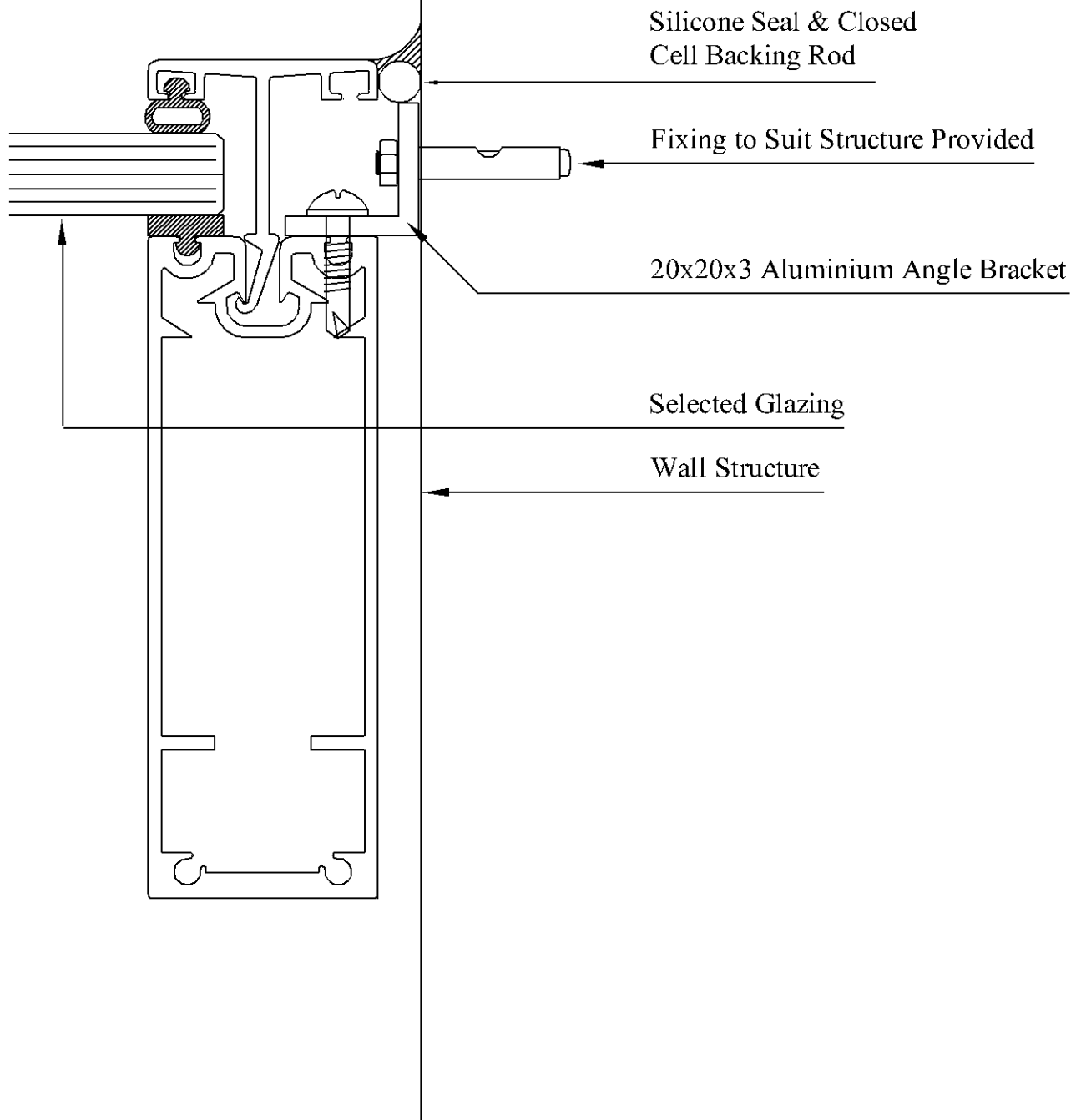
Page 37

Typical Section Through *Intalok* 100mm Deep Glazing Rafter Scale 1:1



Typical Detail - Side Perimeter
Flashing Over a Head

Typical Section Through
Intalok 100mm Deep
Glazing Rafter
Scale 1:1



Typical Detail - Side Smooth Wall Fixing

Contact

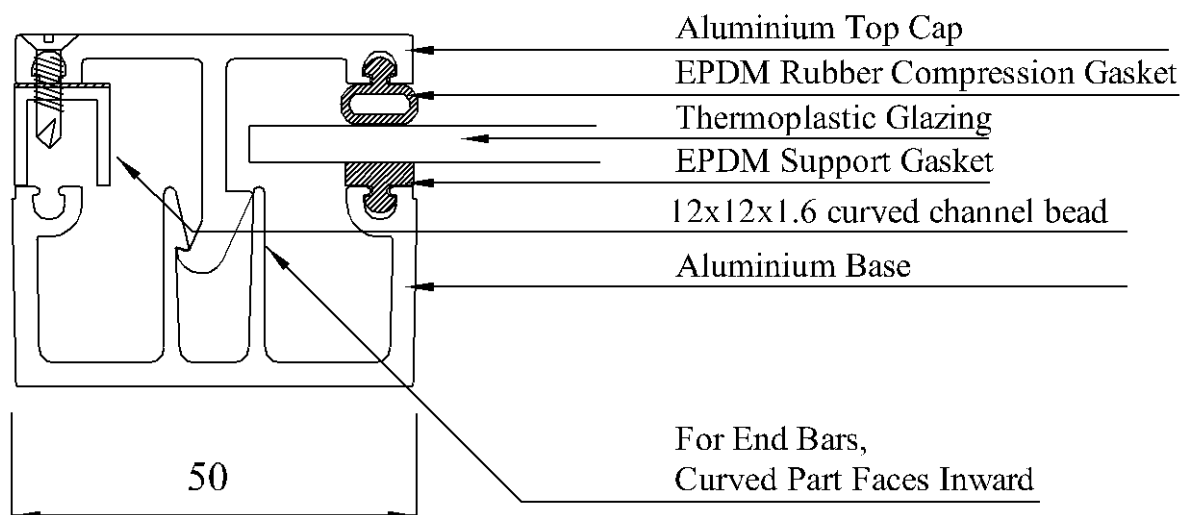
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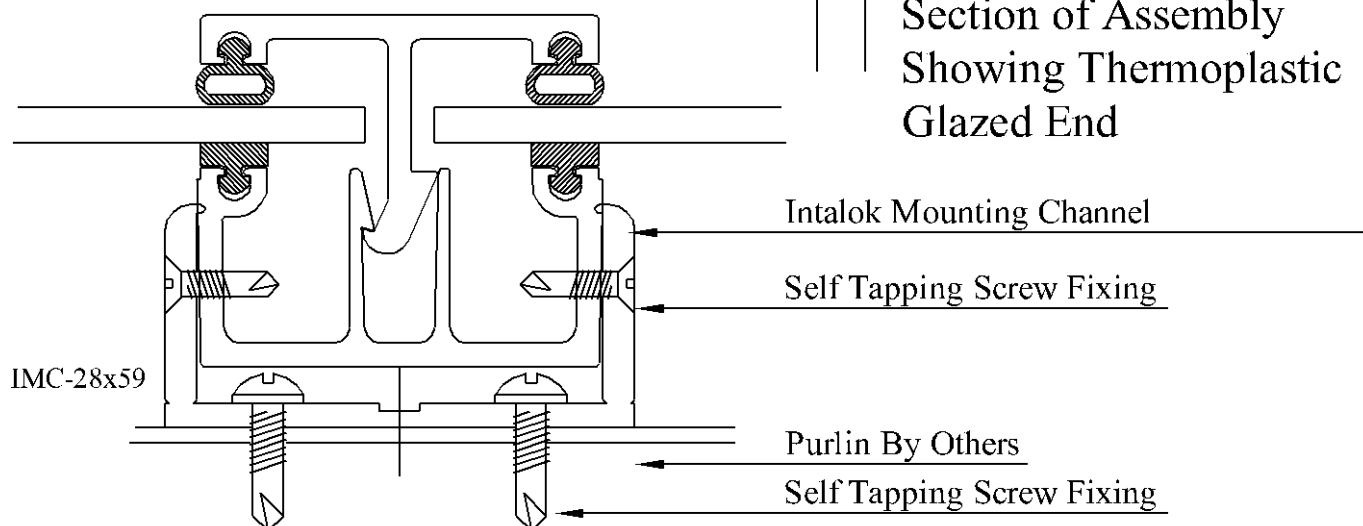
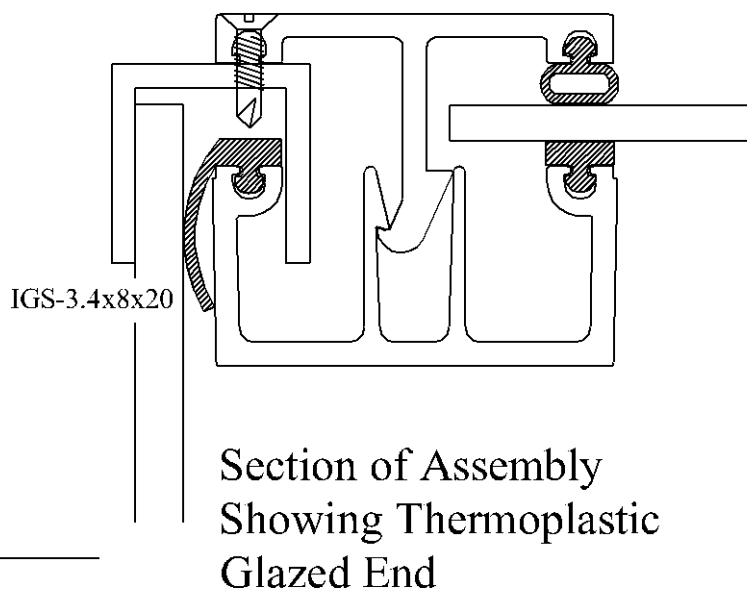
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Intalok Typical Curved Assemblies

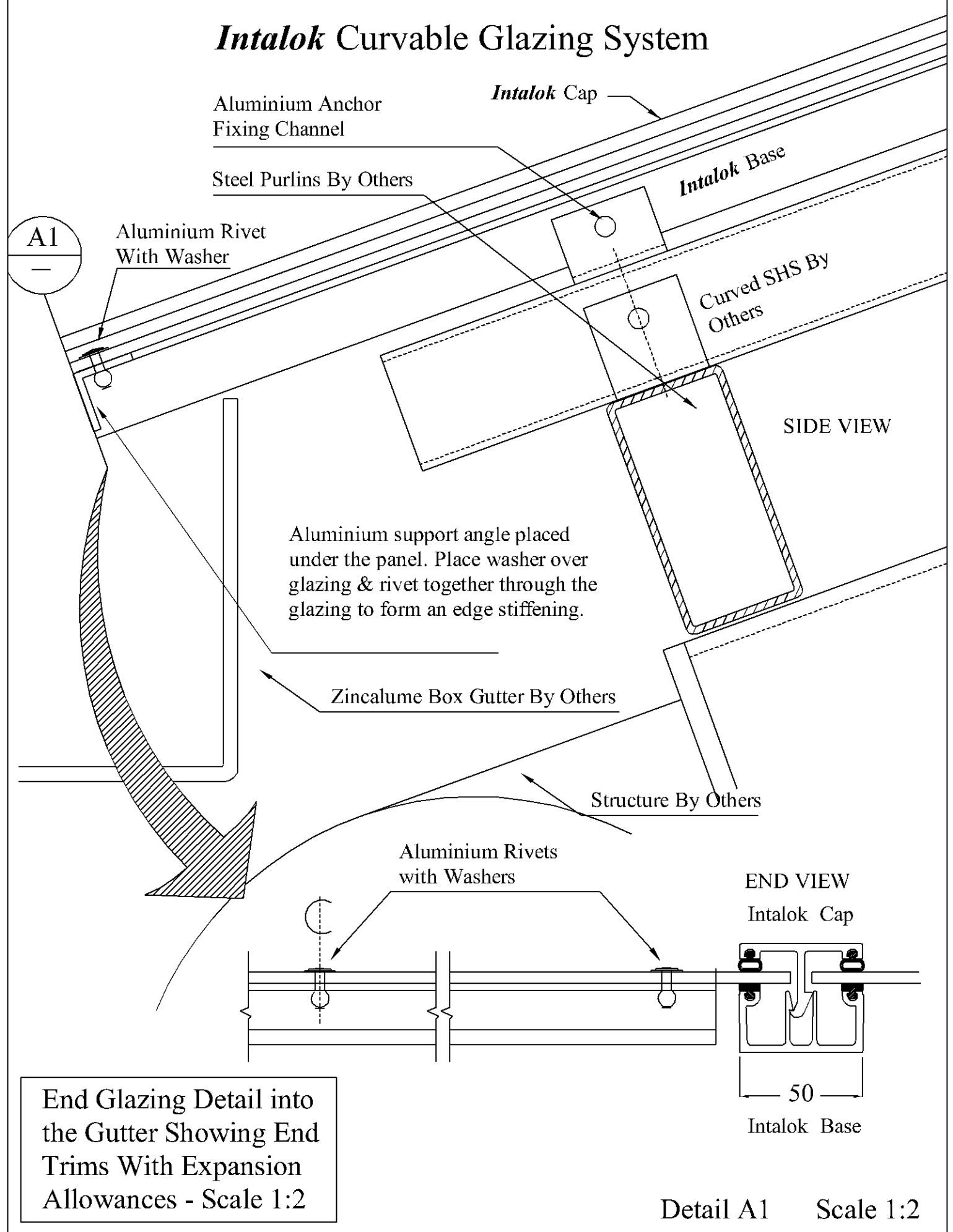


Typical Section Through
Intalok 50mm wide
Curvable Glazing Rafter .
(Including End Bar Detail)
Scale 1:1



Typical Section of Assembly
Showing an Aluminium Channel Bracket
When fixing to a Purlin

Intalok Curvable Glazing System



Contact

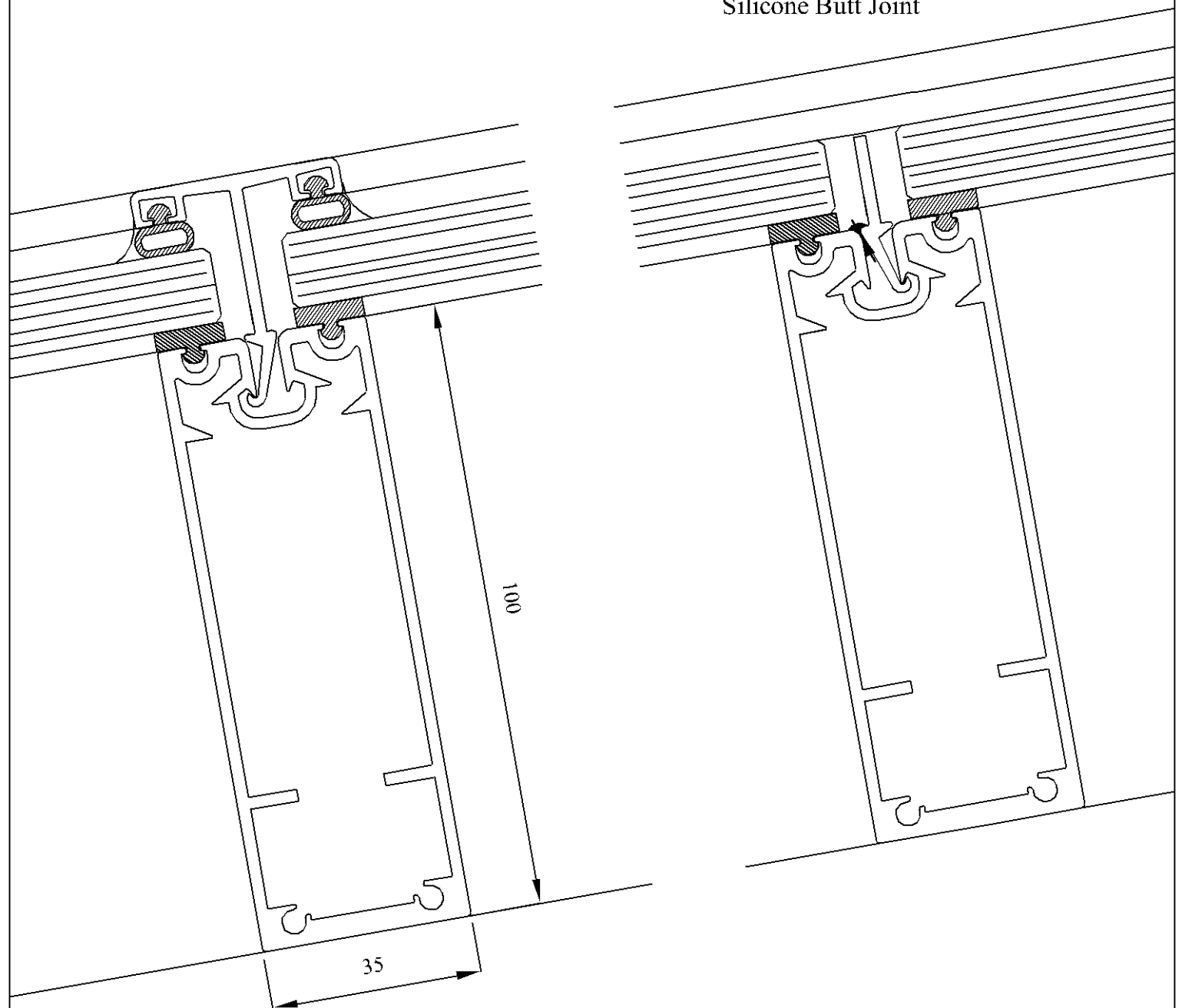
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Capped Transom

Blind Transom With
Silicone Butt Joint



Glass Roof Typical Detail
Large Span Butt Joint with
Intermediate Partial Cap
Scale 1:1

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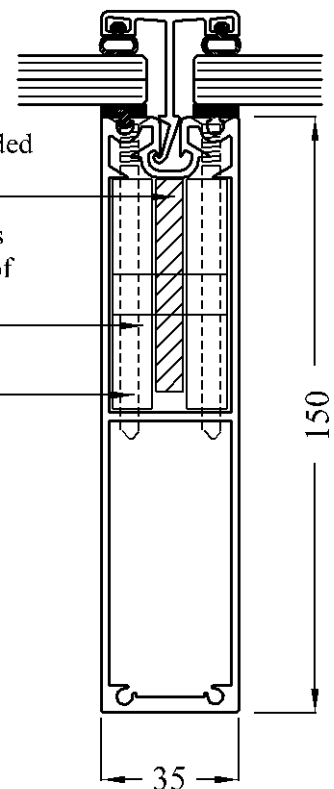
Typical Section Through *Intalok* 150mm Deep Glazing Rafter

Scale 1:2

8mm Steel Bracket Welded
to Structural Box Gutter

10mm Aluminium Plates
Pin Fixed to Each Side of
bracket

Counter-Sunk Screws



Selected Glass

Bar Width Glass Stop

Setting Block

50

165

Structural Support
By Others

Silicone Seal

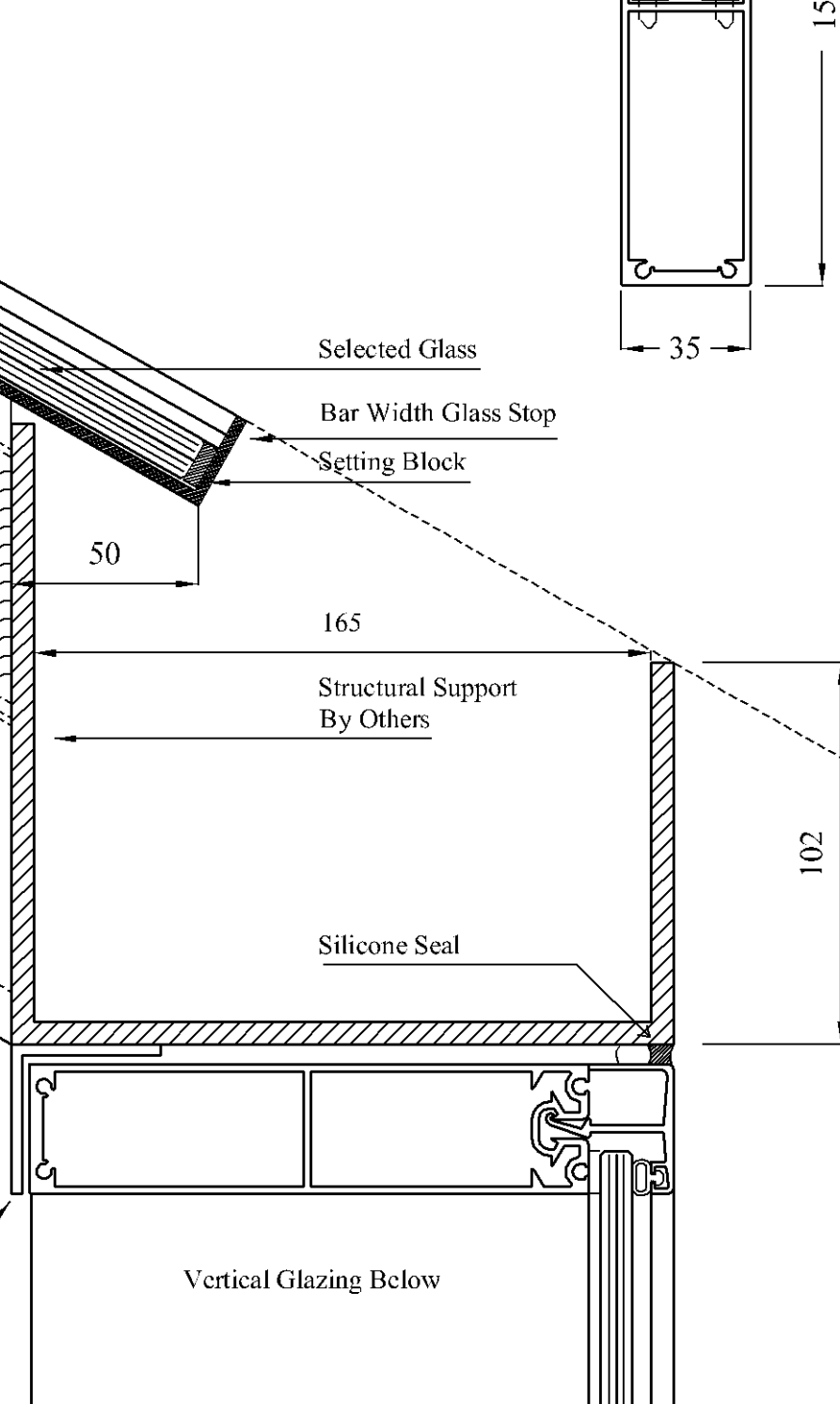
102

Detail - Rigid End Fixing

Scale 1:2

40x40x3 Continuous
Aluminium Angle
Fixing Trim

Vertical Glazing Below



Contact

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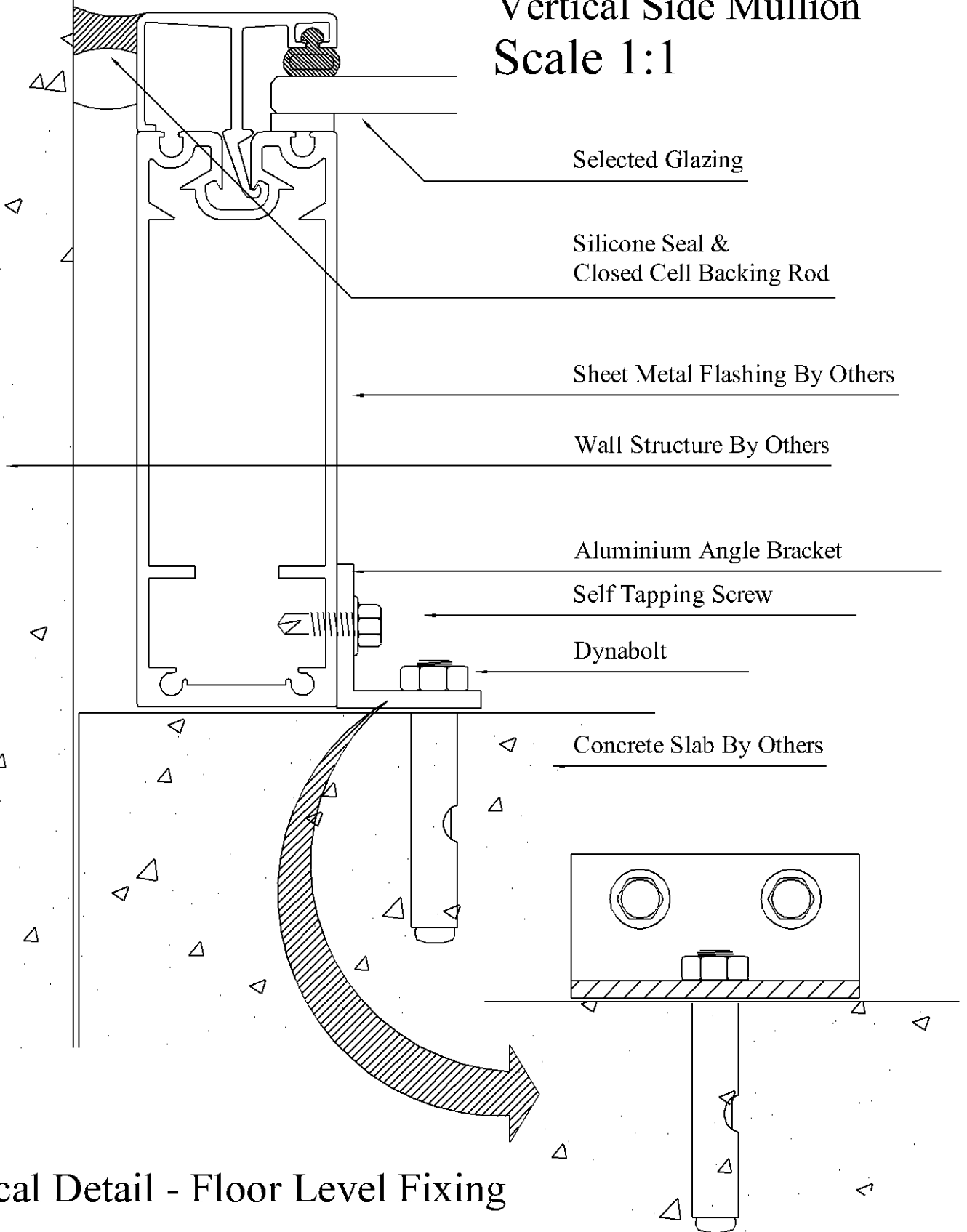
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Page 43

Typical Section Through *Intalok* 100mm Deep Vertical Side Mullion Scale 1:1



Typical Detail - Floor Level Fixing

Contact

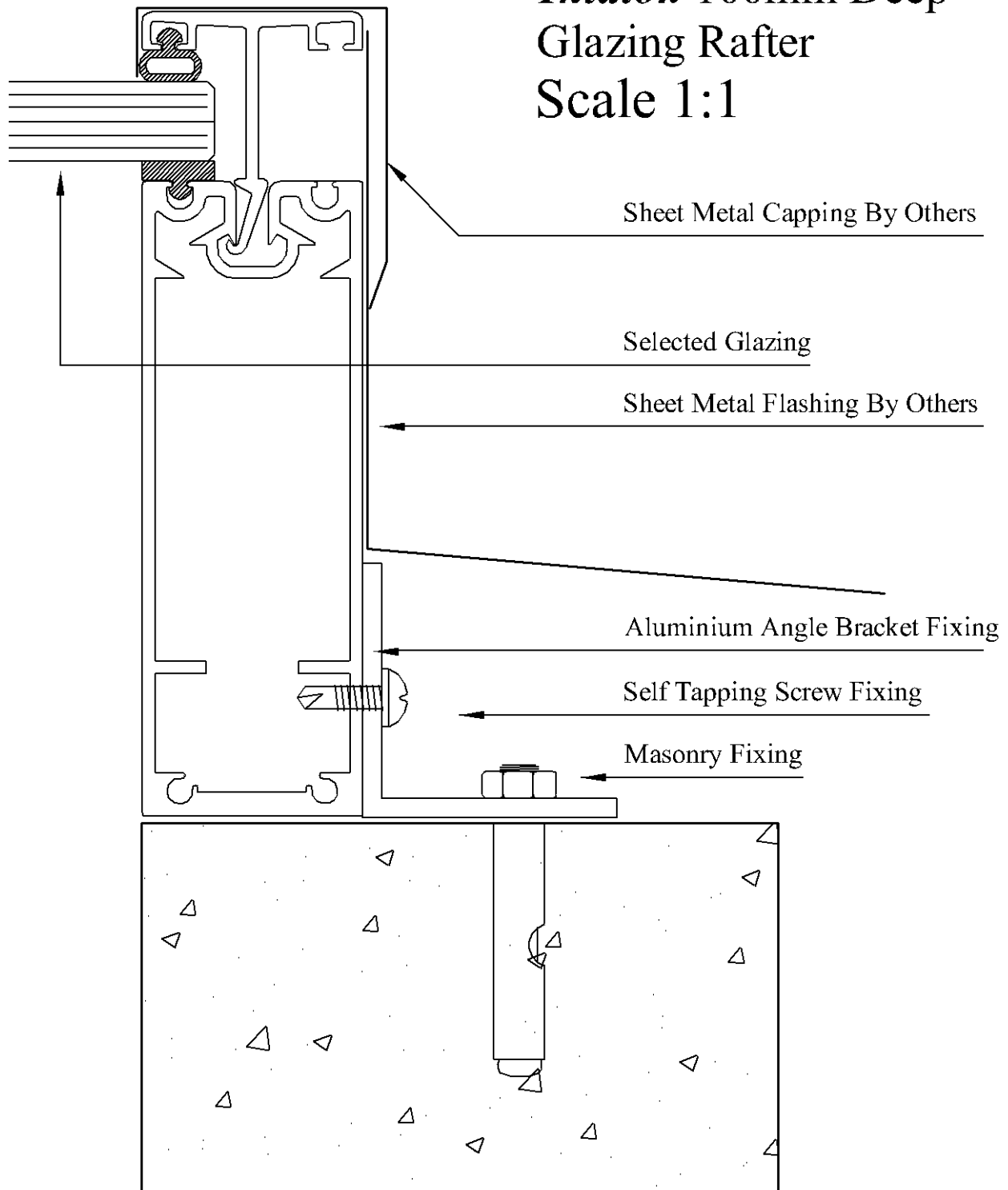
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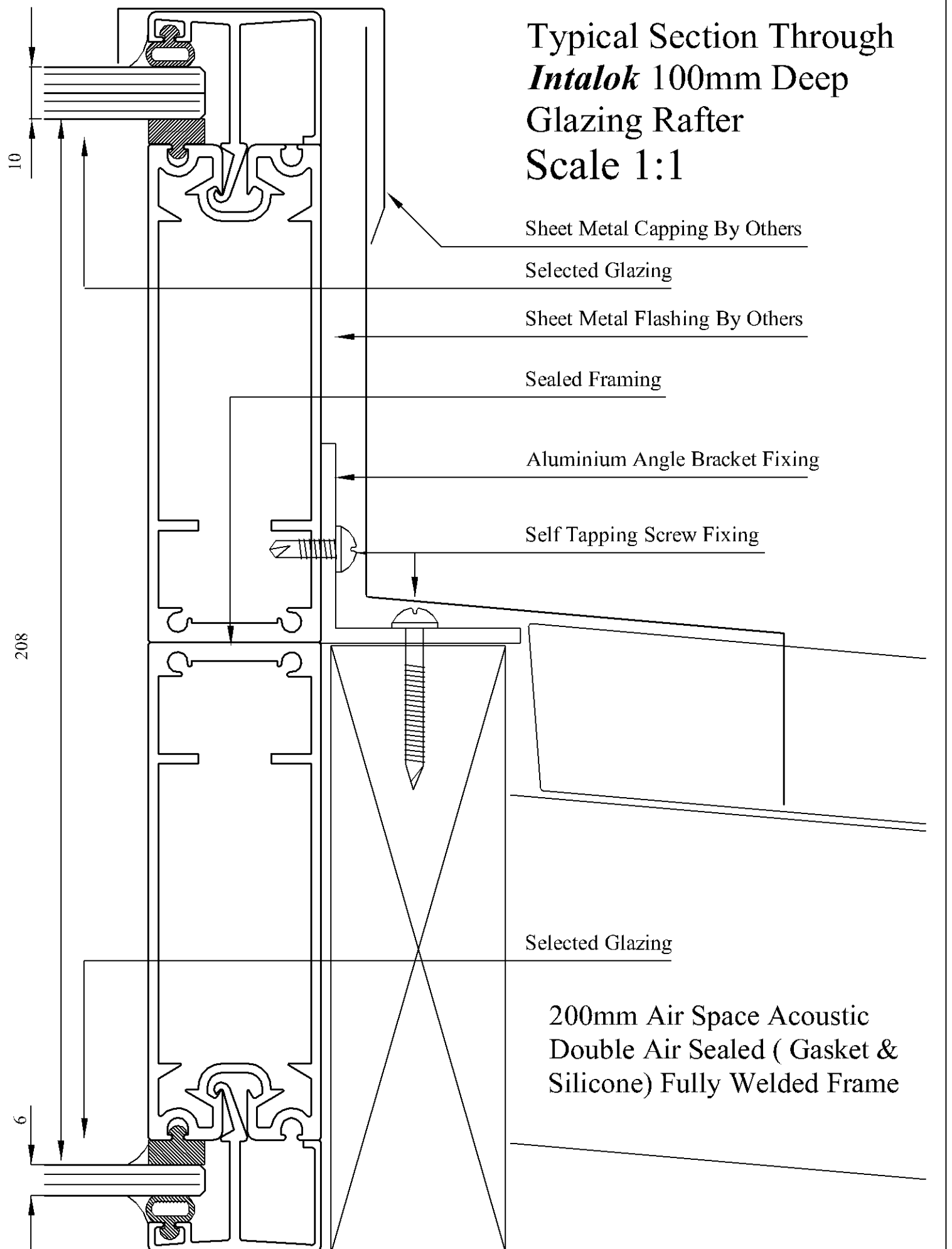
Email: info@belleskylights.com.au

Typical Section Through *Intalok* 100mm Deep Glazing Rafter Scale 1:1



Typical Detail - Side Perimeter Flashing

Typical Section Through *Intalok* 100mm Deep Glazing Rafter Scale 1:1



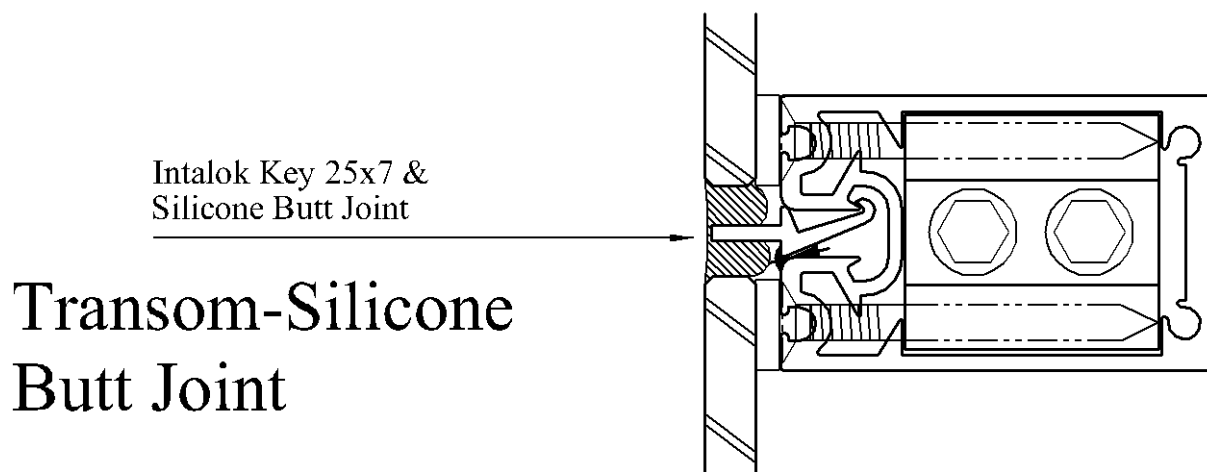
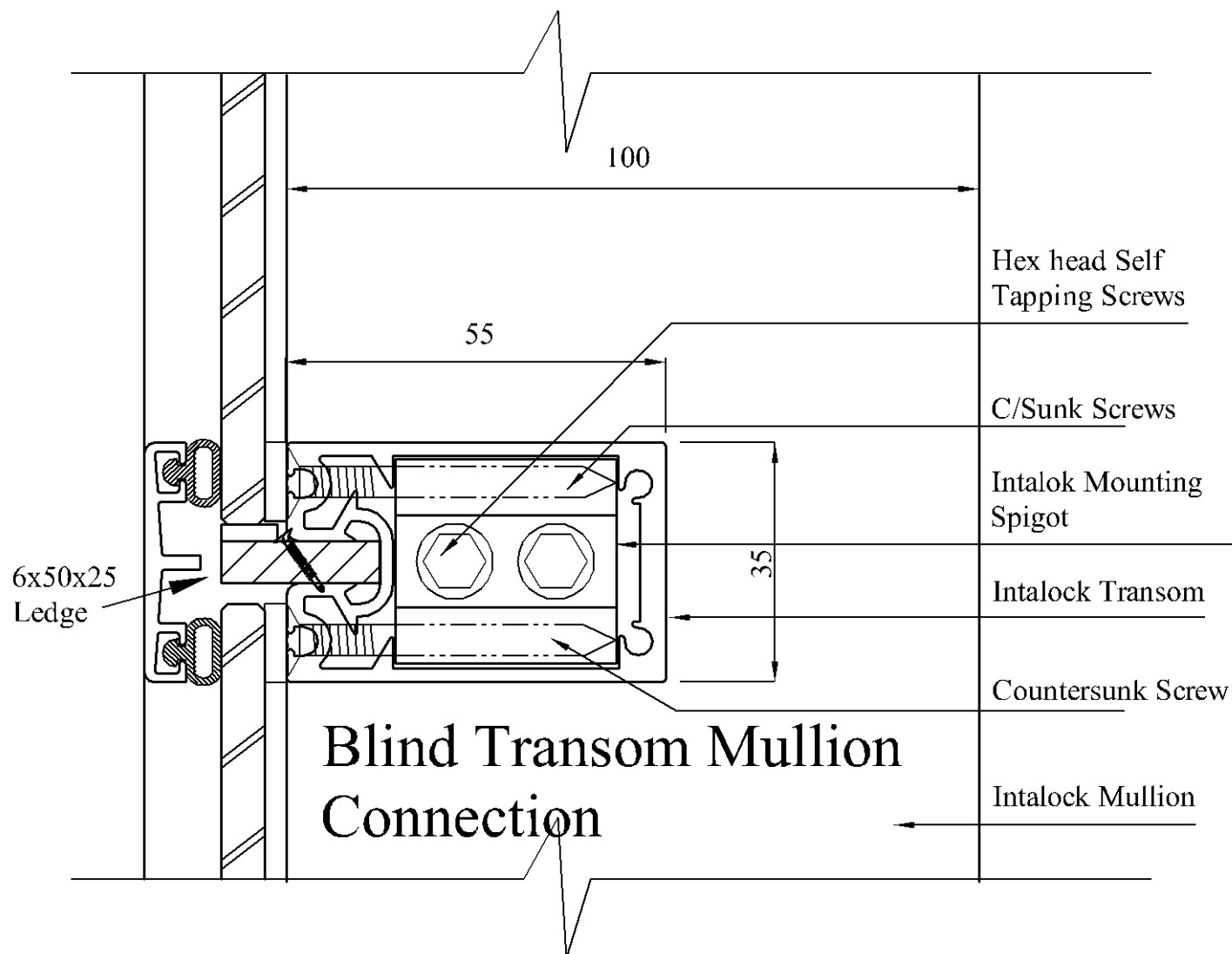
Contact

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Typical Section Through *Intalok* 55mm Deep Transom with 100mm Deep Mullion Scale 1:1



Contact

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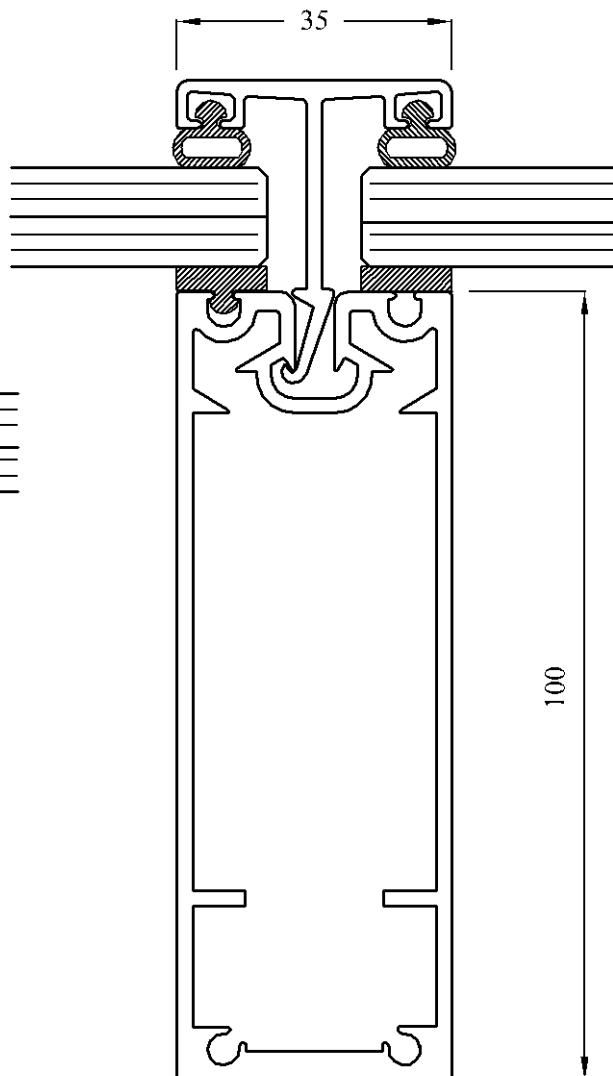
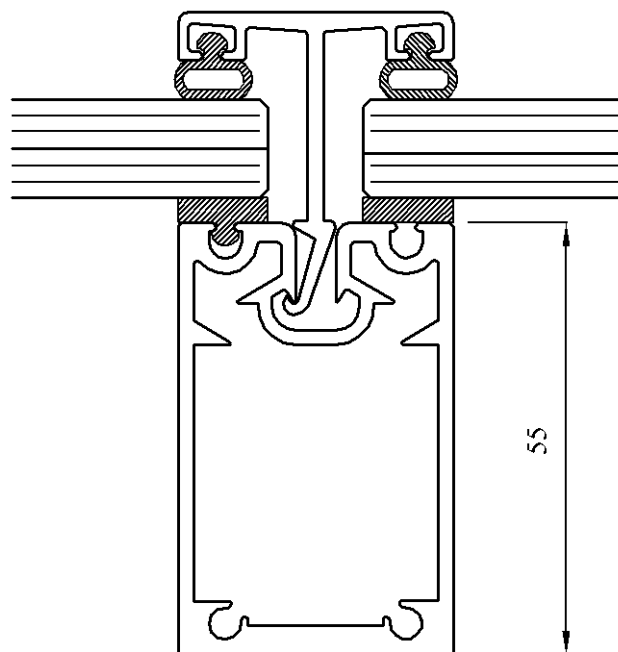
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Email: info@belleskylights.com.au

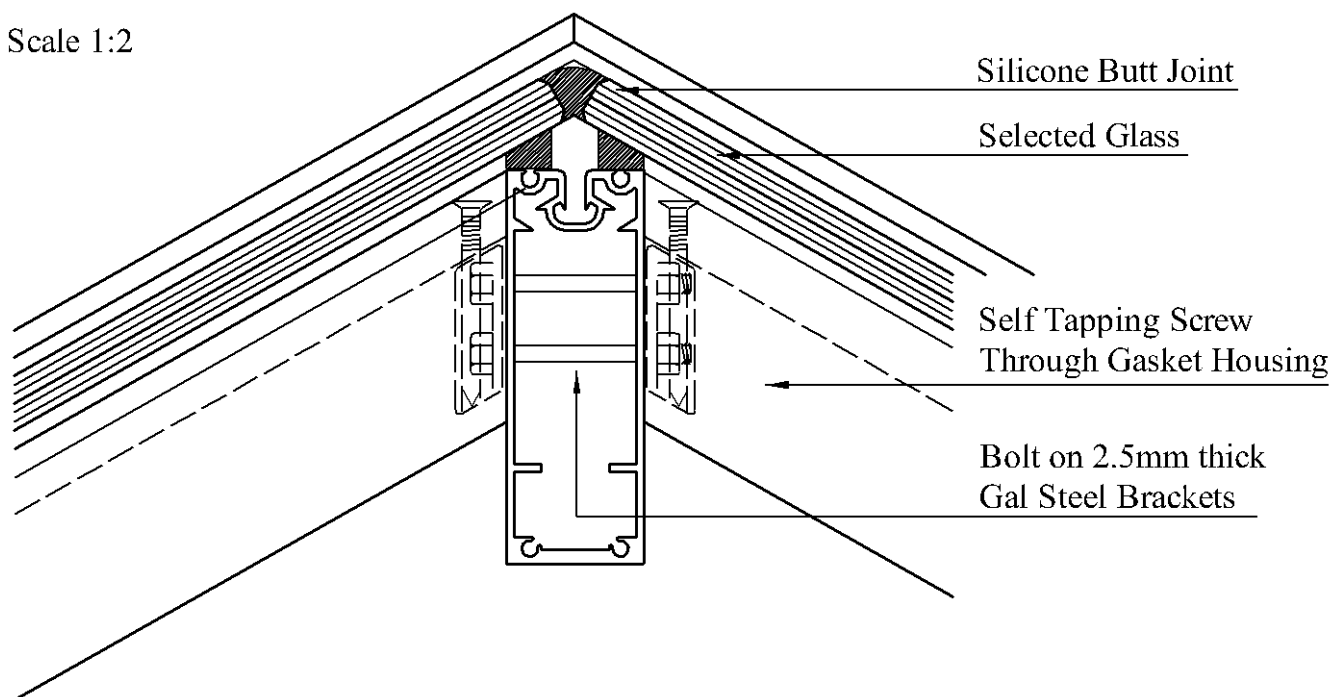
Typical Section Through *Intalok* 55 & 100mm Deep Glazing Rafter /Hip

Scale 1:1



Section Through Ridge Beam Connection

Scale 1:2



Contact

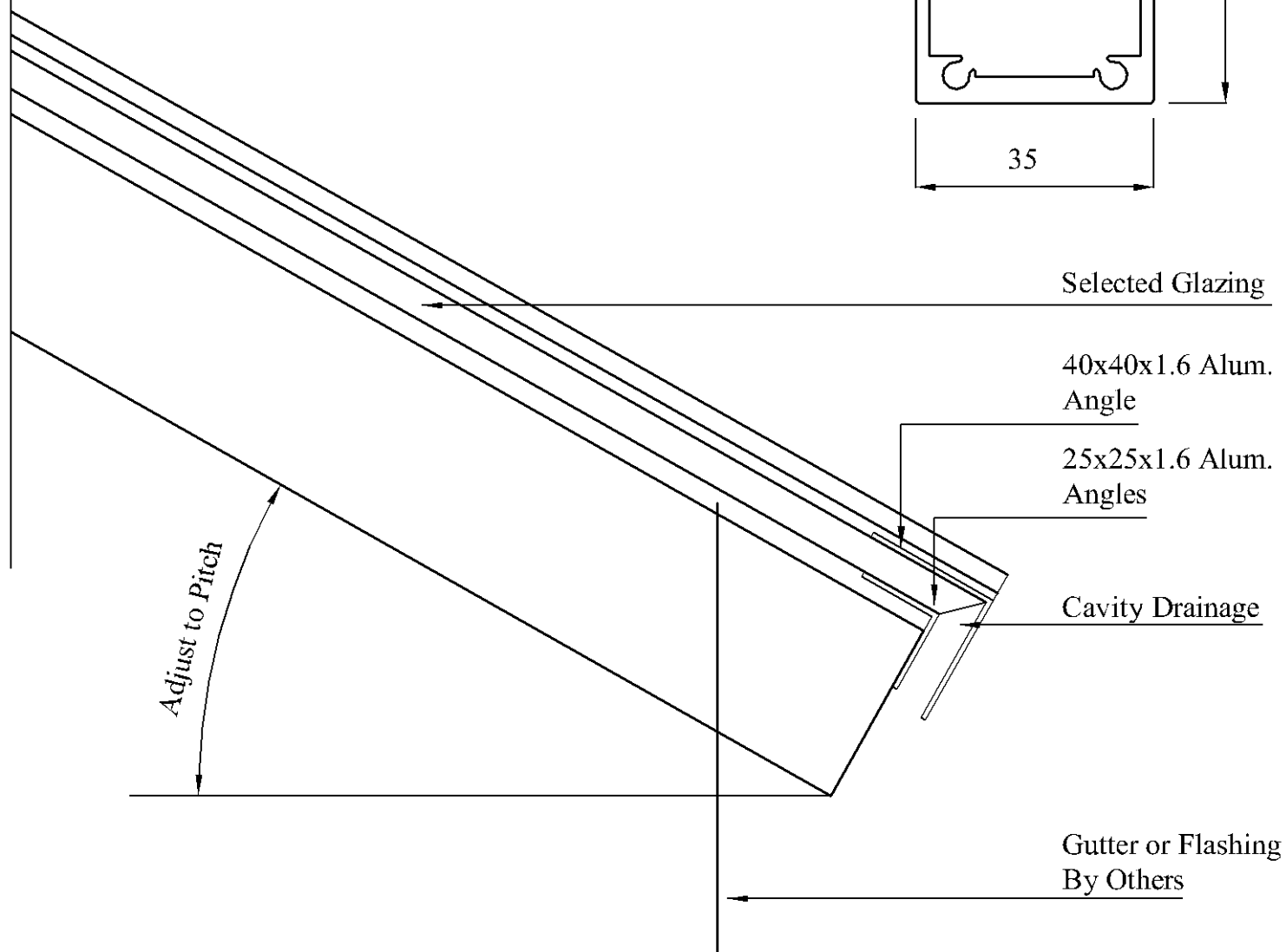
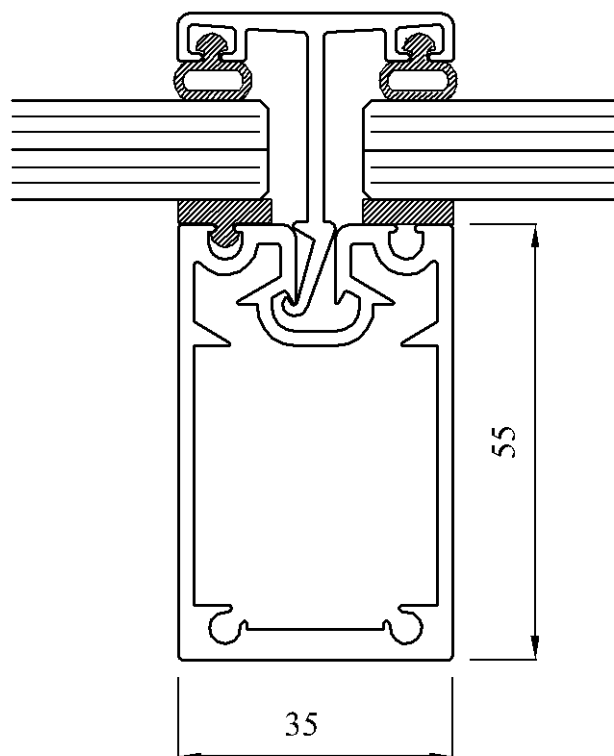
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Page 48

Typical Section Through *Intalok* 55mm Deep Glazing Rafter

Scale 1:2



Typical Lower End Detail Showing Cavity Drainage For Twin Wall

Contact

Belle Skylights

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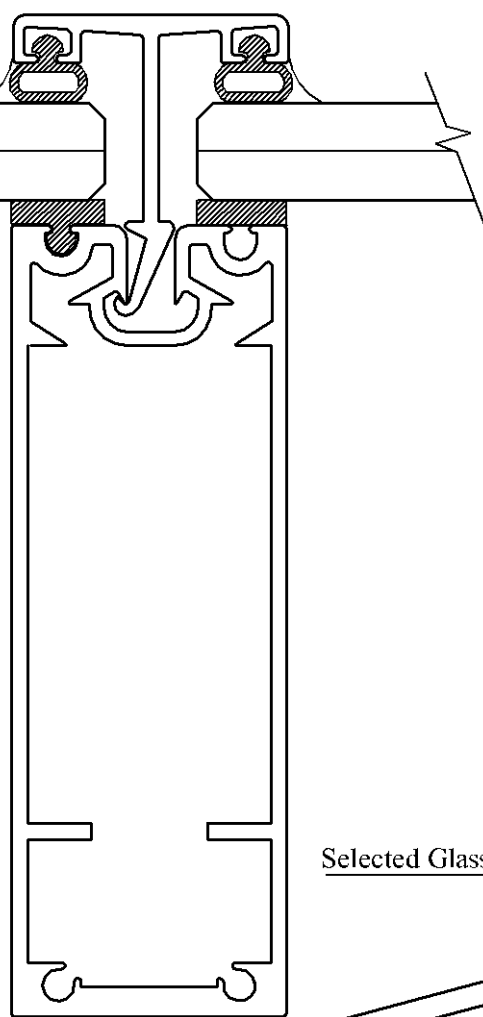
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Email: info@belleskylights.com.au

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Typical Section Through *Intalok* 55mm Deep Glazing Rafter

Scale 1:2



Selected Glass

Blind Transom

5

Setting Block

Glass Stop

Counter Flashing

Welded or Bolt on Steel
Bracket with Bolted Pin Fix

Typical Detail - End Fixing

Scale 1:2

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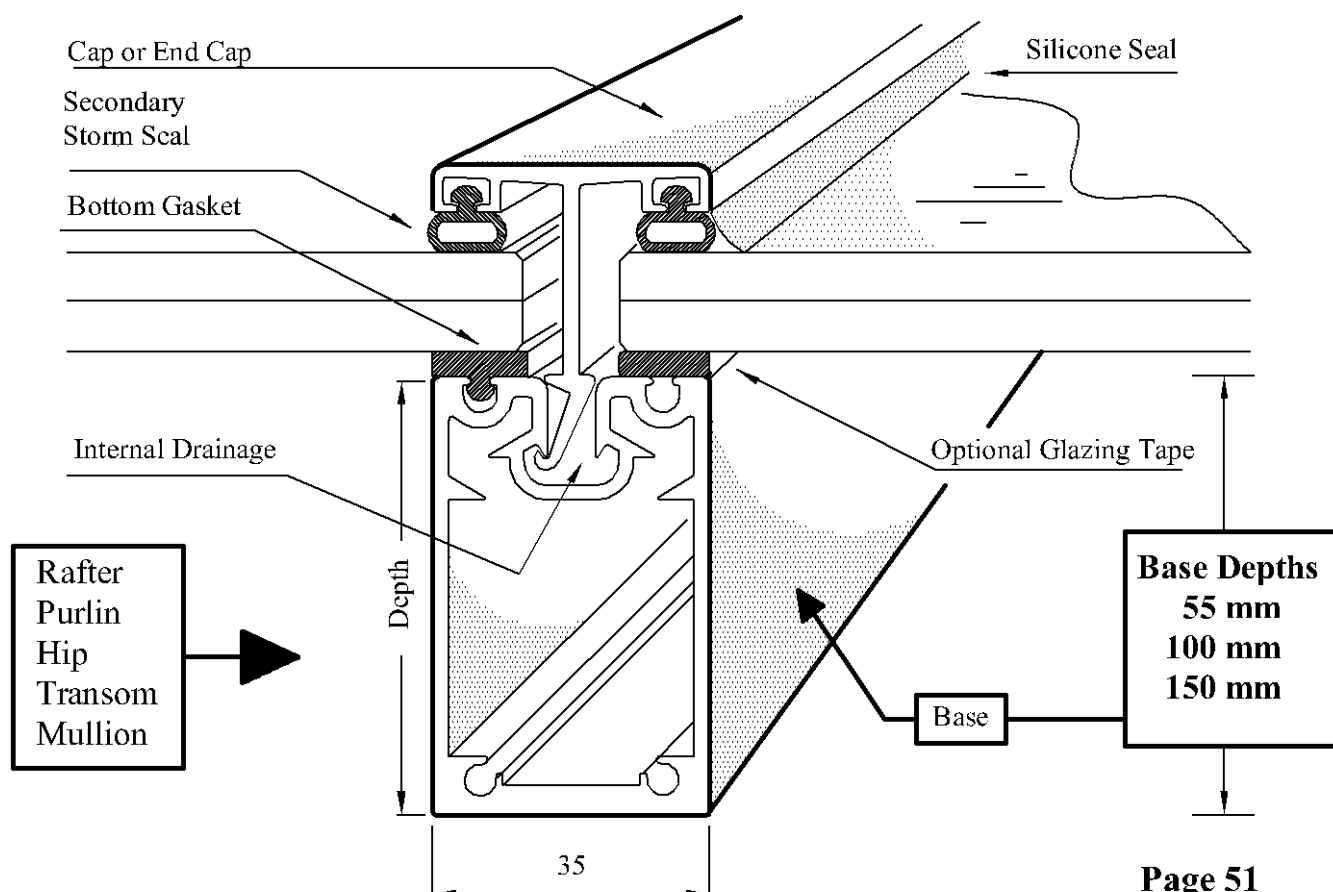
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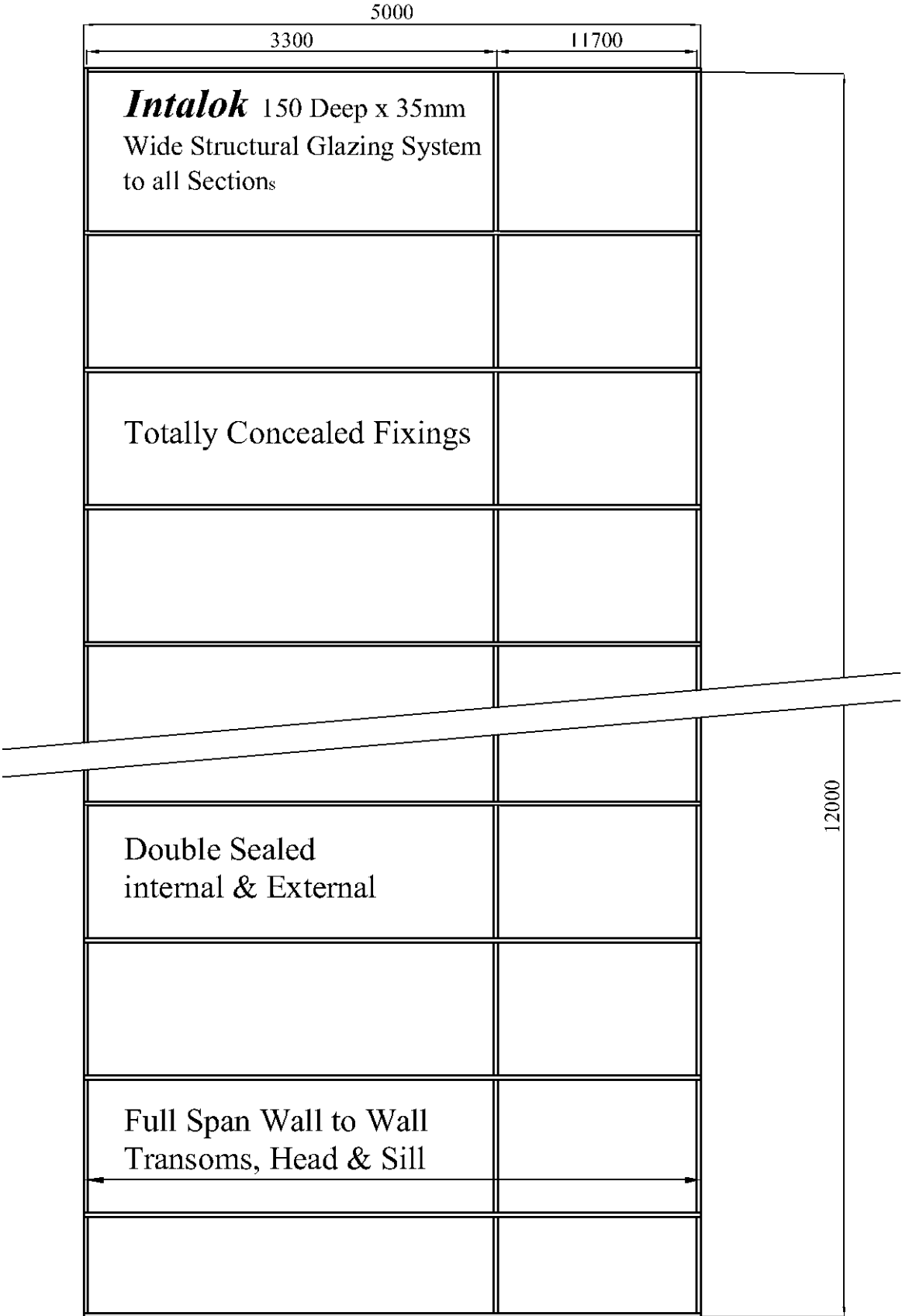
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Intalok Glazing System **Frame Layout Examples**

Ultra Thin Sections 35mm Wide Sections, Maximizes Daylight
All Common Uses	..... Single and Double Glazing
Fast/Simple Assembly	..... Smart Sections Reduce Labour/Skill
Pre-Fitted Secondary Seals	..... Instant Dry Seal Minimizes Silicone
Secondary Storm Seals	..... Precise preset Compression Seals
Fast Fit <i>Intalok</i> Caps	..... Effortless Glazing Installation
Slide on Transoms	..... Fast Accurate On-Site Installation
Concealed Fixings	..... Fully Concealed Rafter/Transom Fixings
Optimum Strength and Stiffness	..... Engineered for Economical High Spans
High Strength Glazing Caps	..... <i>Intalok</i> Cap to Base Mechanism
Fast Glazing Replacement	..... Using the <i>Intalok</i> Mechanism
Self Locking Cap	..... <i>Intalok</i> Two Way Servo Grip to Glazing
Internal Storm Drain	..... Conducts Away Storm Moisture
Knife Edge Thermal Barrier	..... Minimizes Moisture Condensation
Universal Rafter/Transom Section Minimizes Stock/Storage



Intalok - Wide Span Wall Glazing

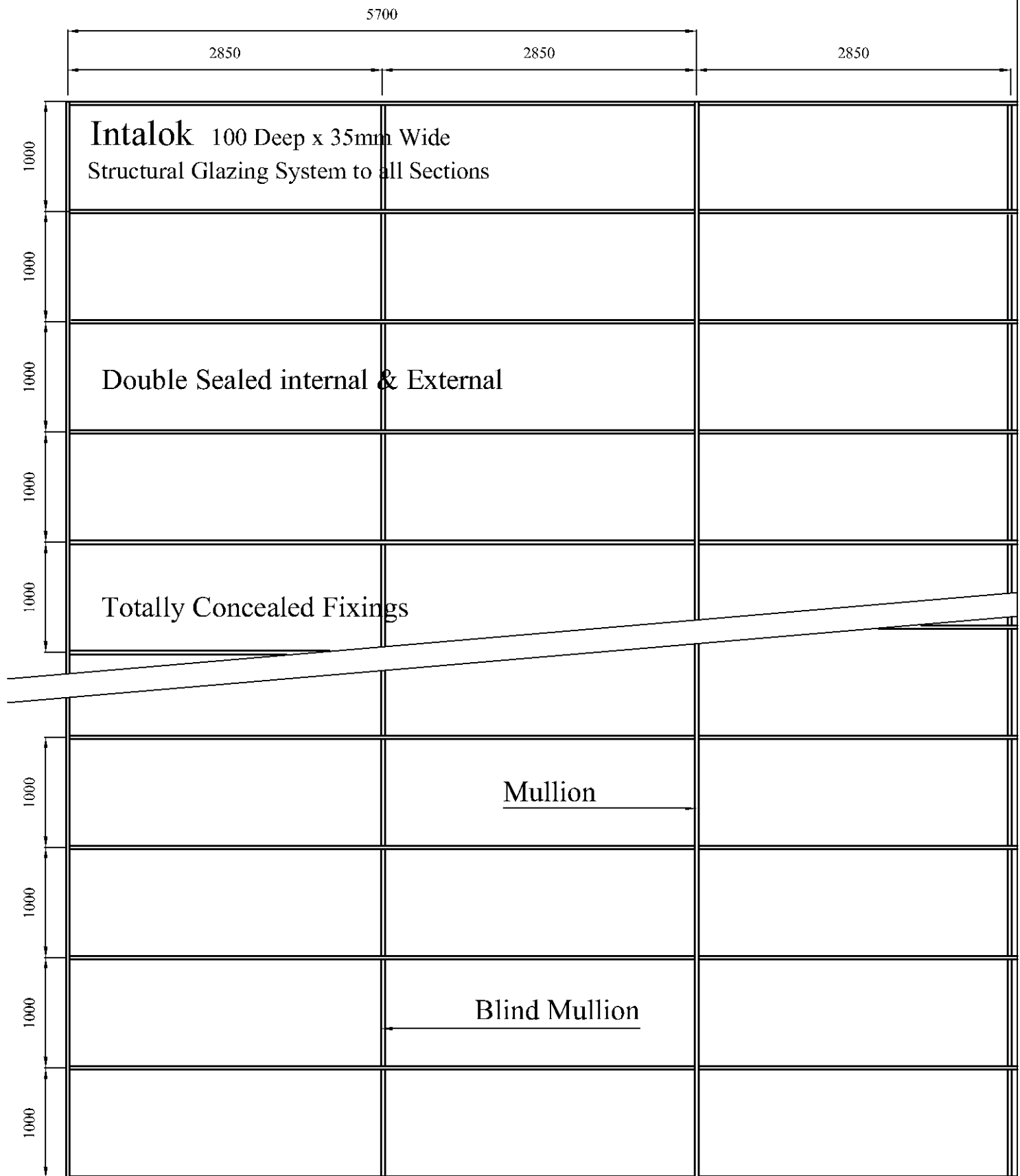


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Intalok - Wide Span Wall Glazing



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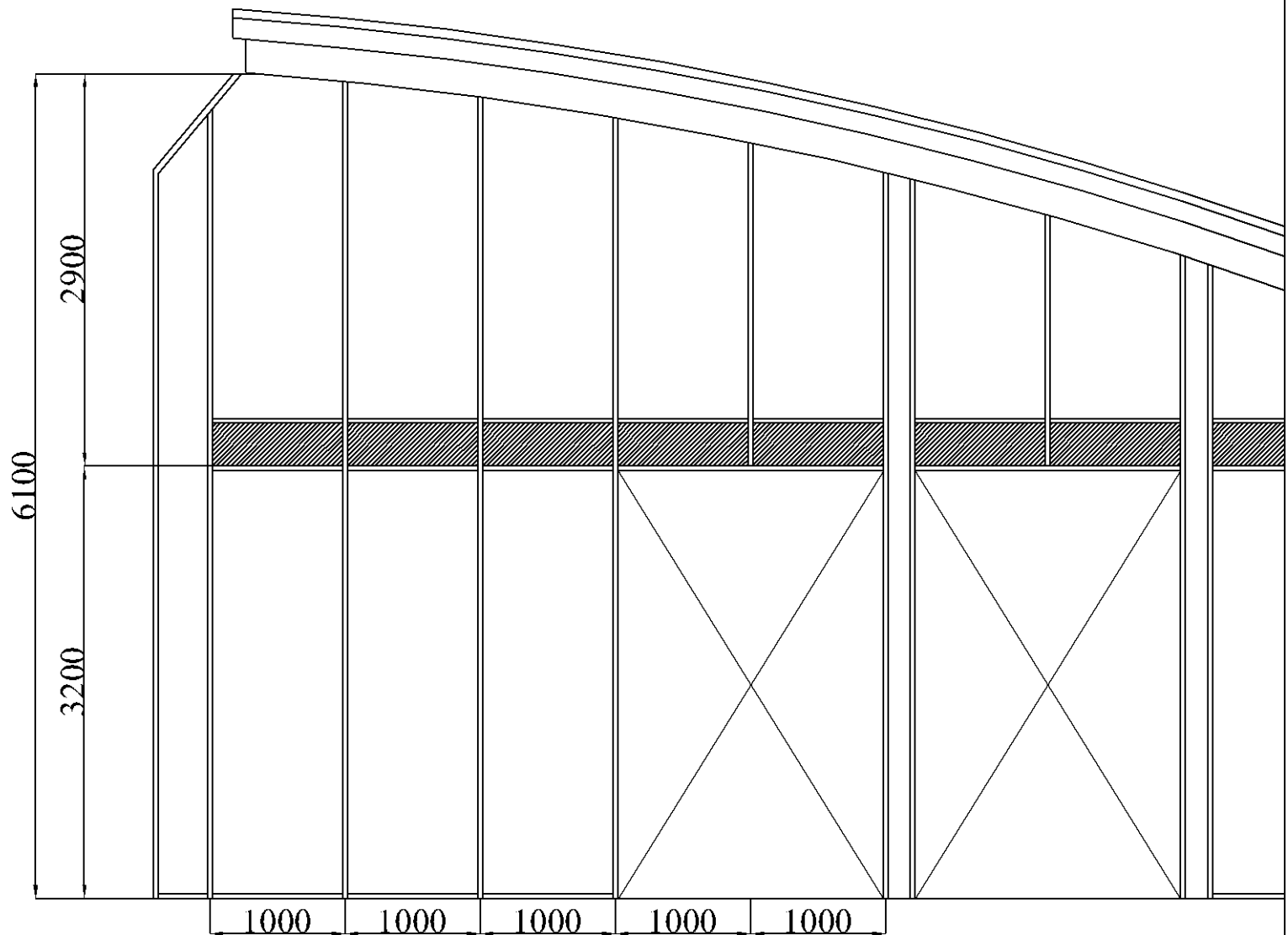
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Intalok Replaces Steel Wall Support



Normal Wall Glazing Containing
a 310 UB Support Beam Horizontal
Through the Centre of the window

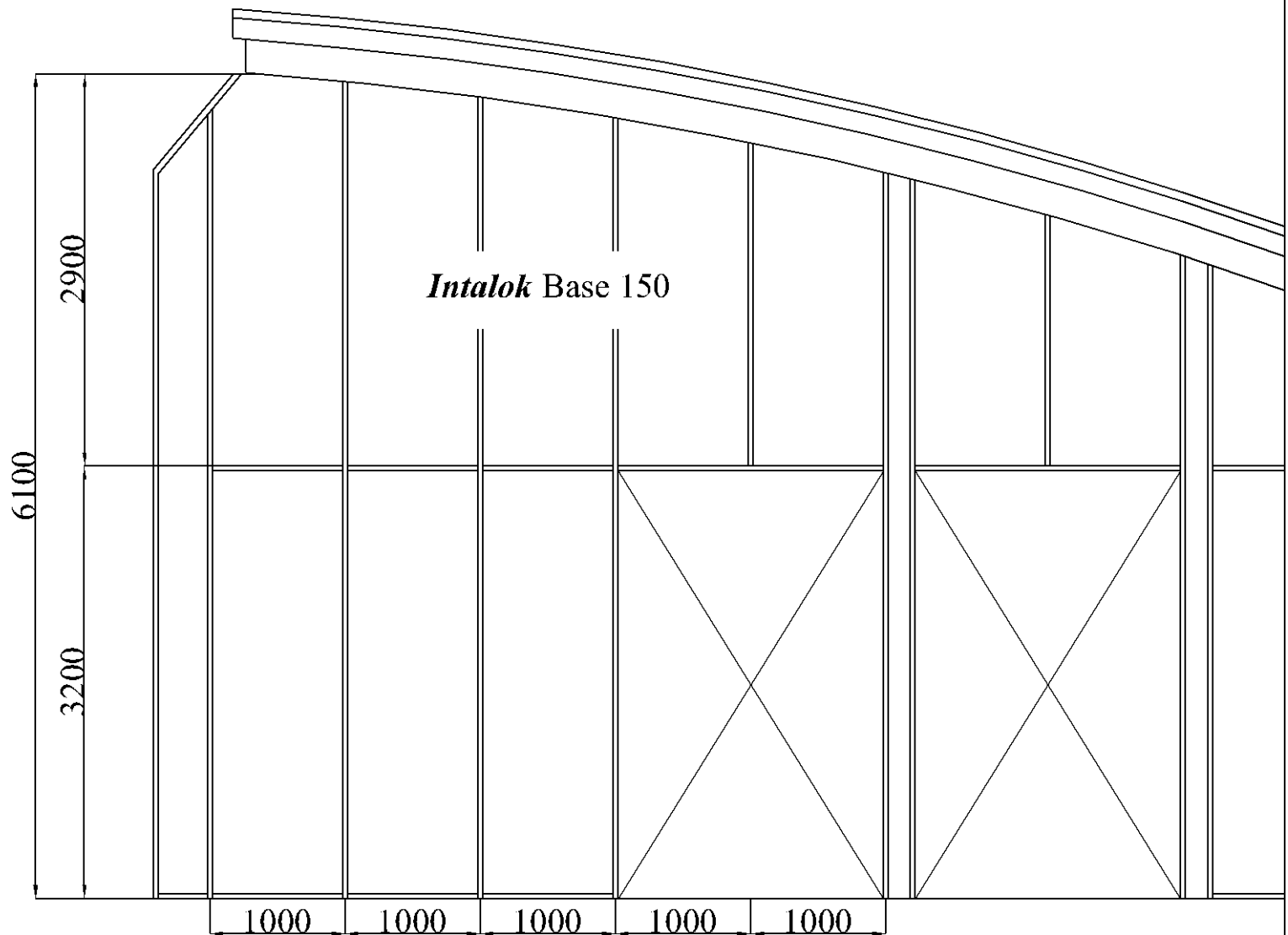
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Intalok - Wide Span Vertical Glazing



Normal Wall Glazing using the
Intalok Glazing System with
the Horizontal steel Removed
From the window

Contact

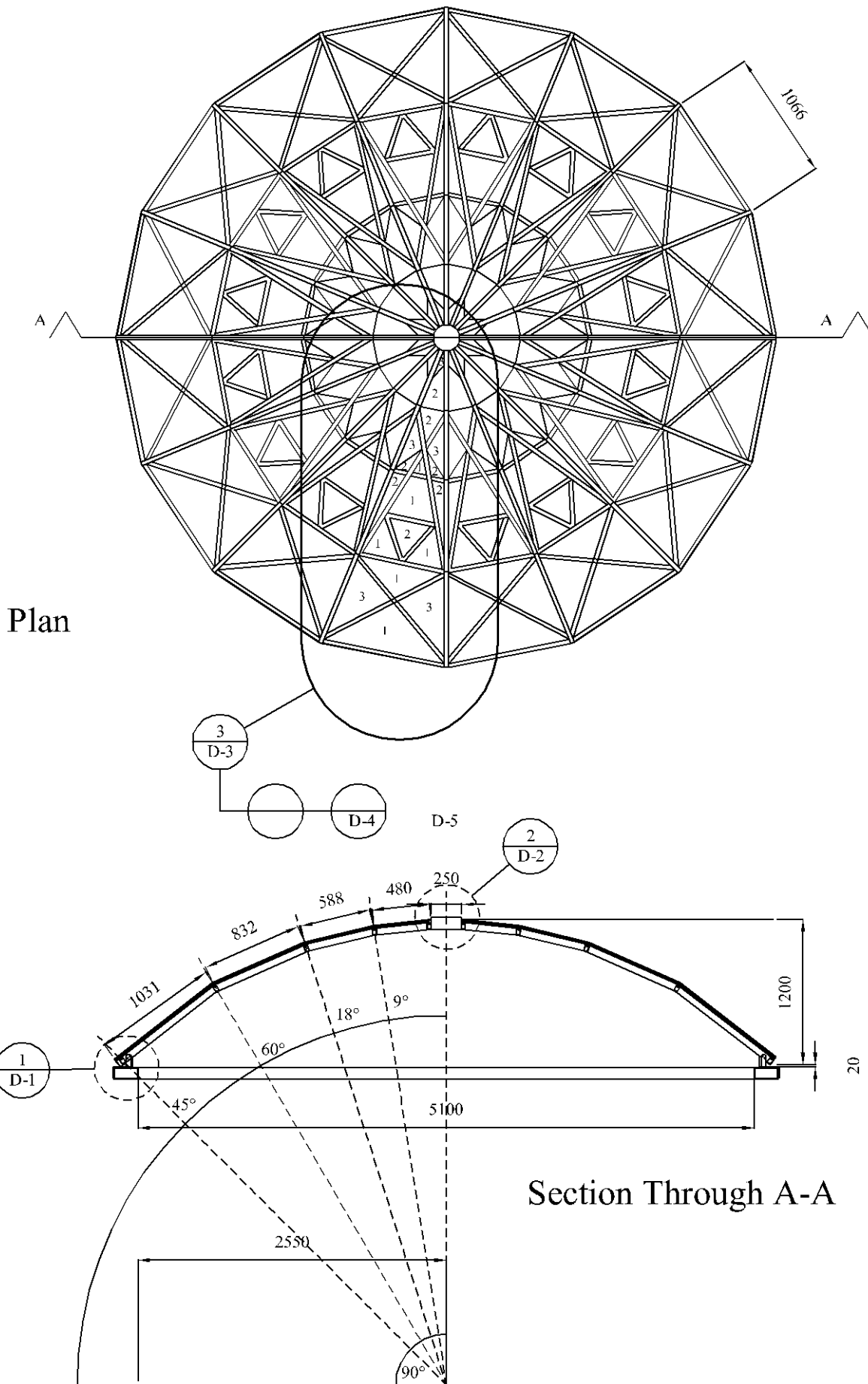
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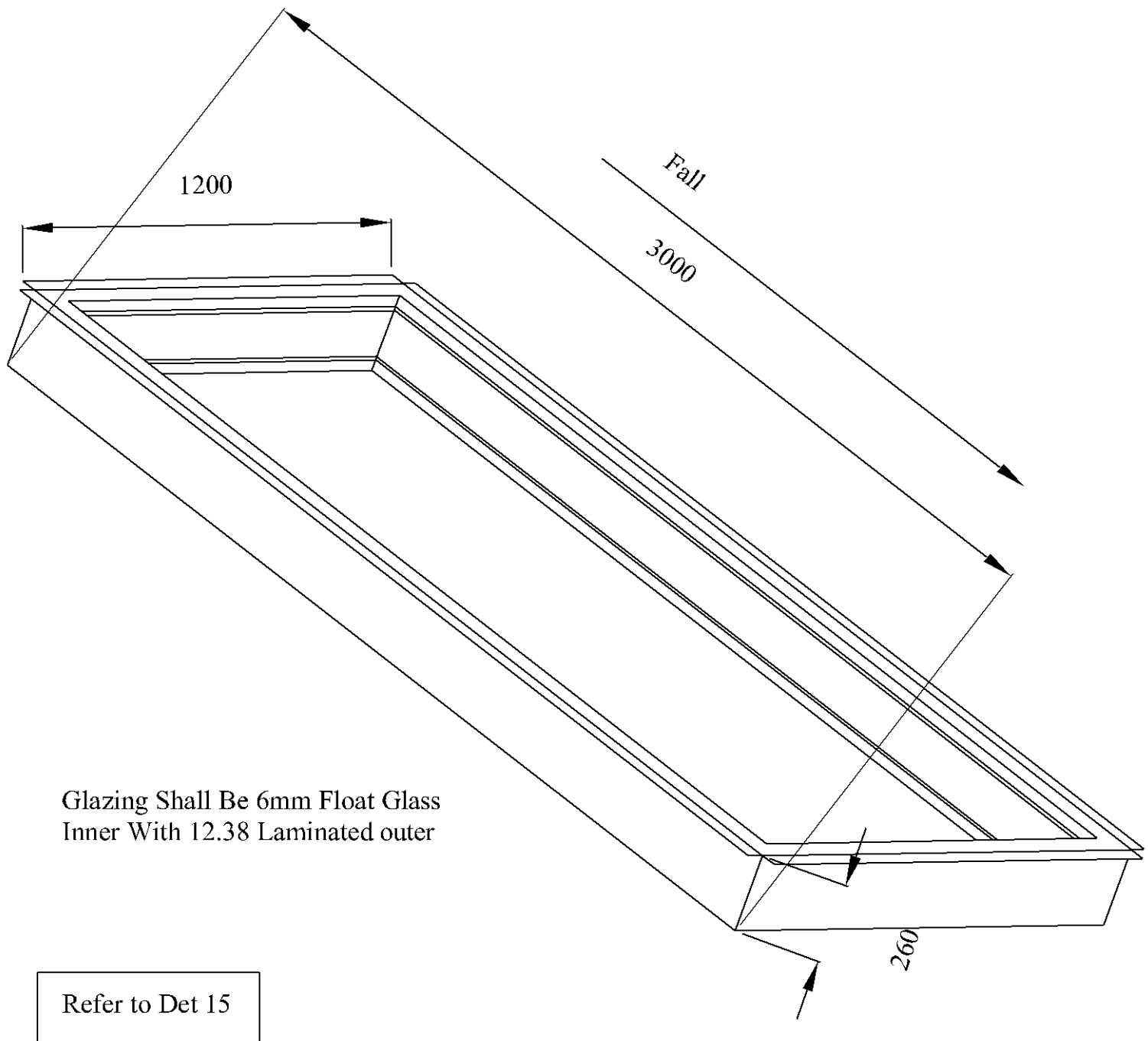


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Intalok Pitched Double Glazed Skylight



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