

Barriers - Design limits for occupancy A/B/E/C3.

t	Maximum	Fixing Dimensions
	Cantilever Height H (mm)	Max x
10mm	500	400
	600	350
	700	SPECIFIC DESIGN
12mm	950	450
	1050	400
	1150	400
	1250	SPECIFIC DESIGN
15mm Glass	950	550
	1050	500
	1150	450
	1250	400

See note 15

Design loads to deck structure					
SINGLE		DOUBLE		Wind (kPa)	
M* (kNm)	T* (kN)	M* (kNm)	T* (kN)	SLS	ULS
0.6	3.8	0.5	3.5	3.1	3.1
0.7	3.8	0.7	3.5	3.1	3.1
SPECIFIC DESIGN					
1.3	9.0	1.2	8.2	1.8	2.6
1.3	7.5	1.2	7.1	1.4	2.1
1.3	8.0	1.2	7.3	1.3	2.0
SPECIFIC DESIGN					
1.6	13.1	1.4	11.9	3.1	3.1
1.5	11.1	1.3	10.1	2.4	2.4
1.5	10.2	1.4	9.4	1.8	2.1
1.5	9.1	1.4	8.4	1.2	1.8

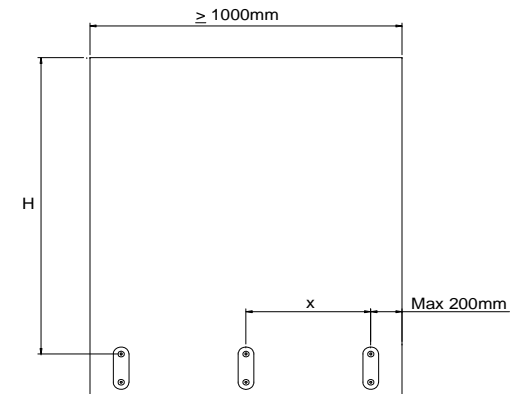
Pool Fence - Design limits based on occupancy A line load only.

t	Maximum	Fixing Dimensions
	Cantilever Height H (mm)	Max x
12mm	1250	400
15mm	1250	400

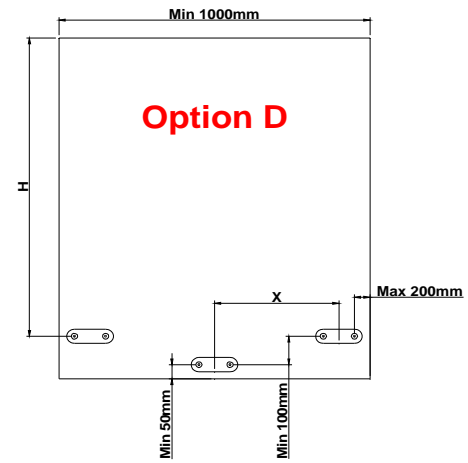
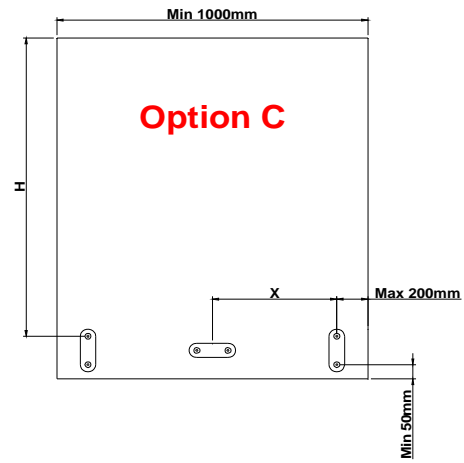
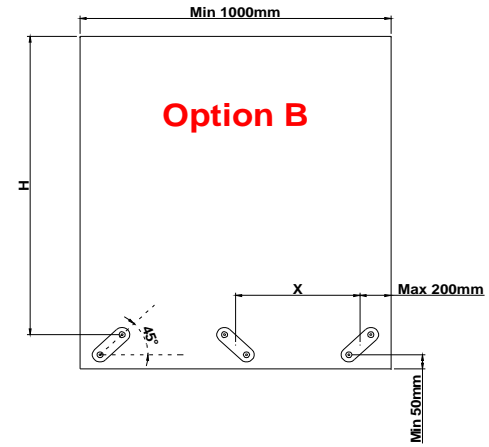
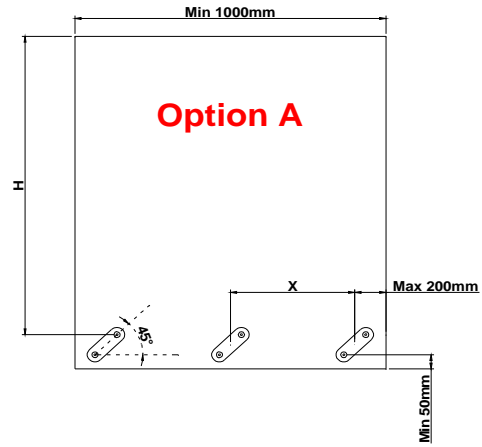
Design loads to deck structure					
M* (kNm)	T* (kN)	M* (kNm)	T* (kN)	SLS	ULS
1.3	7.5	1.2	7.0	0.9	1.5
1.5	9.1	1.4	8.4	1.2	1.8

NOTES

- 1 Glass is to be TempaFloat grade A toughened safety glass by Metro GlasTech.
- 2 Glass panels are at least 1000mm wide unless connected by an interlinking handrail.
- 3 Glass thicknesses shown are nominal thickness. Table is based on minimum tolerance as per NZS 4223.1:2008.
- 4 Heights (H) are measured from upper glass fixing centre to top of glass, as shown on the diagram on this sheet.
- 5 SLS Deflection in the glass is restricted to 30mm excluding rotation in the supporting structure, unless otherwise stated.
- 6 Design loads are in accordance with AS/NZS 1170.1:2002 table 3.3 and NZBC B1/VM1.
- 7 Loadings are in accordance with DBH Practice Advisory 10 (Nov 2009).
- 8 For ULS wind pressures exceeding those shown, specific design is required.
- 9 Table only valid for use with PF150 Plate Fix system stainless steel fittings. Minimum 6mm thick front disc.  
Allowable variations in PF150 fitting orientation are shown on sheet "PF150 Series Plate Fix Balustrade System Variations".
- 10 M\* denotes bending moment (kNm) around upper glass fixing to be taken by the supporting structure.
- 11 T\* denotes maximum pull out load (kN) of fixings to be taken by the supporting structure.
- 12 This table does not take into consideration the structural integrity of the supporting structure.  
Loads stated should be used as a guide only.
- 13 This table corresponds to fixing detail drawings PF150/C/SI-10, PF150/C/SI-12, PF150/T/LS-10, PF150/T/SN-10, PF150/T/SN-12, PF150/S/SN-10, PF150/S/SN-12.
- 14 For designs outside the scope of this table specific design is required.
- 15 RESIDENTIAL APPLICATION ONLY (see note 7) - SLS Deflection in this instance is above usual limit of 30mm excluding rotation in the supporting structure.



PF150 Series Plate Fix Balustrade System Variations  
Fitting variations shown on this page relate to Design Table PF150

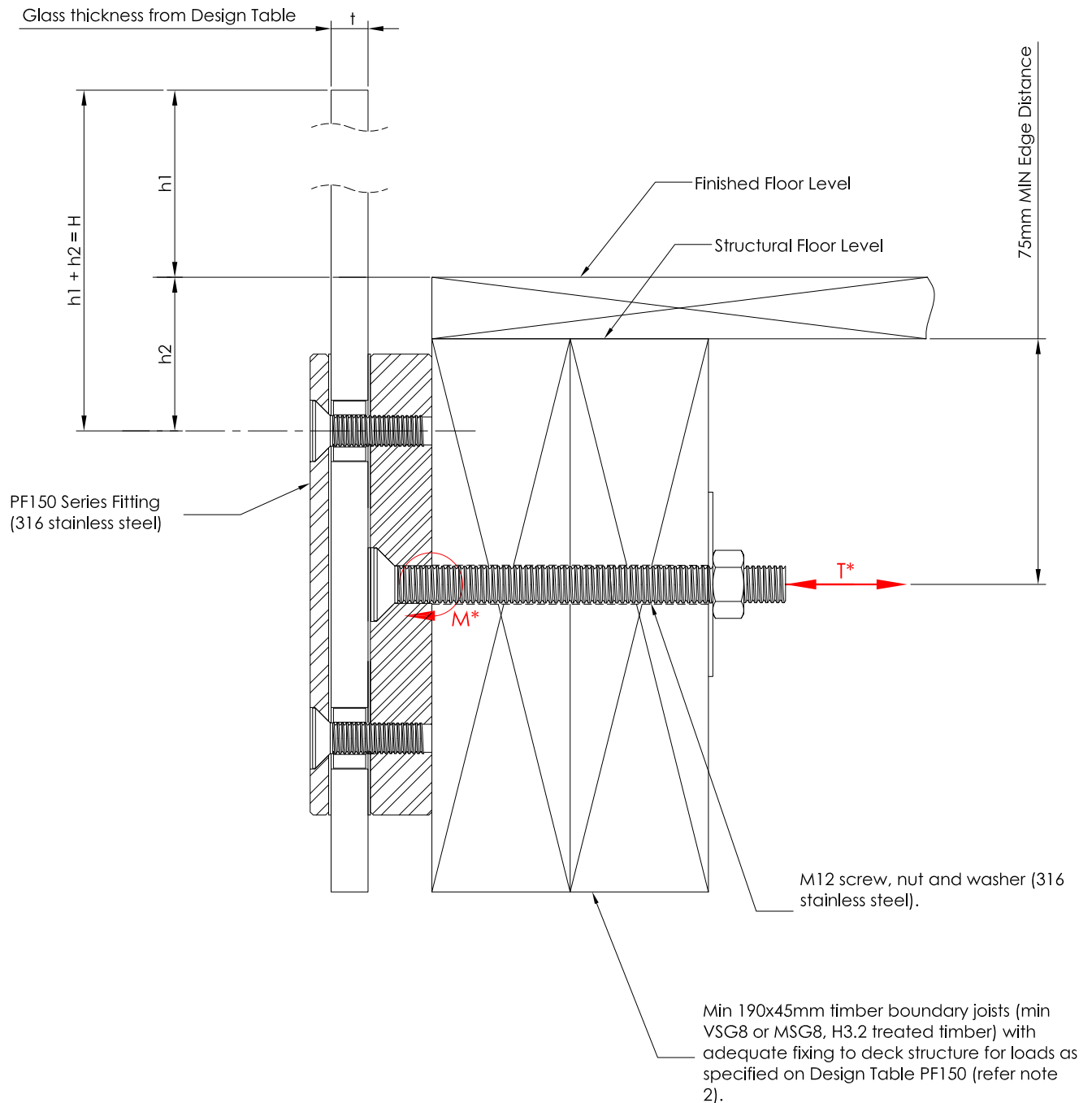




# PF150 Series Plate Fix Balustrade System SINGLE TIMBER Fixing Detail

Drawing No.: PF150/T/SN-12  
 Fixing Type: PF150 with screw & nut  
 Occupancy: A, B, E, C3

Refer to Design Table PF150 for required glass thickness, fitting spacings and fixing loads according to AS/NZS 1170.1:2002 Occupancy Loads.



### Notes:

- 1) Capacity of deck structure is to be of sufficient strength to support loads  $M^*$  and  $T^*$  specified on Design Table PF150. Deck capacity to be verified prior to fixing balustrade.
- 2) Timber decks designed to NZS 3604:2011 guidelines will meet loading requirement, except for decks including cantilevered floor joists where specific design is required.
- 3) Max loading to comply with AS/NZS 1170.1:2002 Minimum Imposed Actions for Barriers Occupancy, shown at top of drawing, for design in accordance with Design Table PF150.