

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

| t | Max Glass Height H (mm) | Fixing/Clamp Spacing (mm) | |
|-------------|-------------------------|---------------------------|--|
| | | Max x | |
| 12mm | 1000 | 400 | |
| 15mm | 1000 | 300 | |
| | 1100 | 300 | |
| See note 15 | 1200 | 300 | |

| Design loads to deck structure | | | | | |
|--------------------------------|---------|----------|---------|----------------------|----------------|
| BA112 | | BA130 | | Design Wind Pressure | |
| M* (kNm) | T* (kN) | M* (kNm) | T* (kN) | SLS Wind (kPa) | ULS Wind (kPa) |
| 0.5 | 7.7 | 0.5 | 7.7 | 1.5 | 2.3 |
| 0.6 | 9.5 | 0.6 | 9.5 | 1.8 | 3.0 |
| | 9.4 | | 9.4 | 1.4 | 2.4 |
| 0.6 | 9.4 | 0.6 | 9.4 | 1.0 | 1.9 |

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

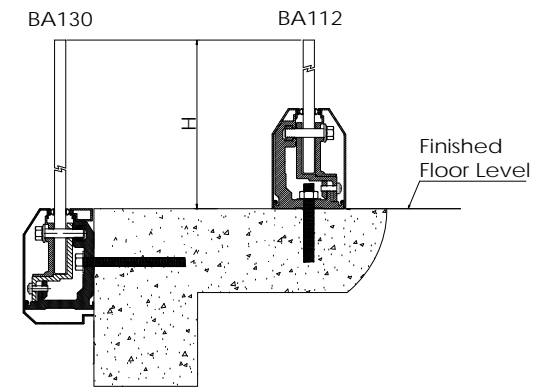
| t | Max Glass Height H (mm) | Fixing Dimensions | |
|------|-------------------------|-------------------|--|
| | | Max x | |
| 12mm | 1200 | 400 | |
| 15mm | 1200 | 400 | |

| Design loads to deck structure | | | | | |
|--------------------------------|---------|----------|---------|----------------------|----------------|
| BA112 | | BA130 | | Design Wind Pressure | |
| M* (kNm) | T* (kN) | M* (kNm) | T* (kN) | SLS Wind (kPa) | ULS Wind (kPa) |
| 0.3 | 8.5 | 0.3 | 6.3 | 0.7 | 1.0 |
| 0.4 | 11.9 | 0.4 | 8.8 | 1.0 | 1.4 |

NOTES

- 1 Glass is to be TempaFloat grade A toughened safety glass by Metro GlassTech.
- 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.
- 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 BA112/BA130 proprietary channel.
- 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 BA112/C/RA, BA112/T/LS, BA112/T/RN, BA112/S/RN, BA130/C/RA, BA130/T/LS, BA130/T/RN, BA130/S/RN.
- 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.

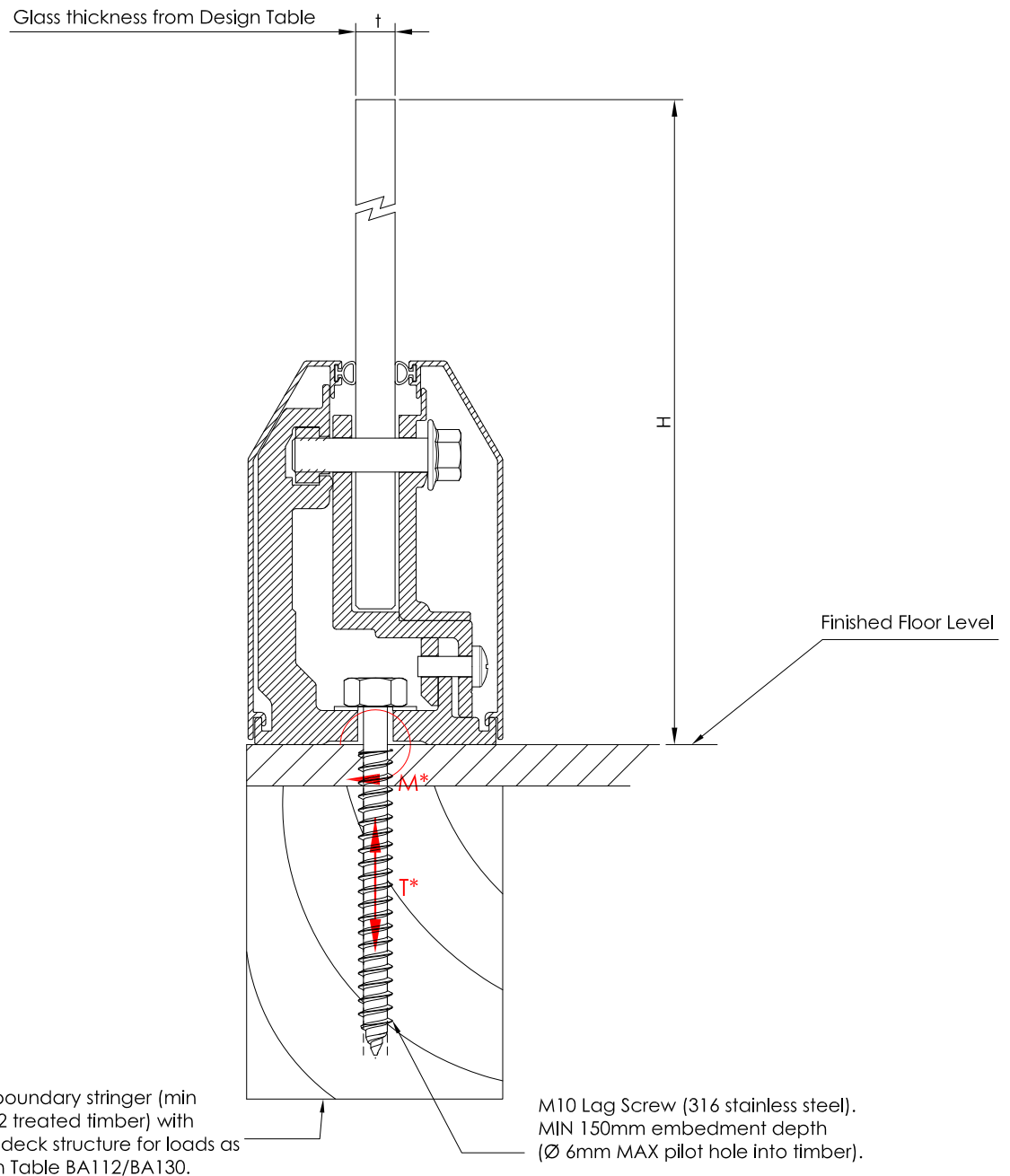




BA112 Series Channel Balustrade System TIMBER Fixing Detail

Drawing No.: BA112/T/LS
 Fixing Type: BA112 with lag screw
 Occupancy: A, B, E, C3

Refer to Design Table BA112/BA130 for required glass thickness, fixing 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 BA112/BA130. 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 BA112/BA130.