**50mm DOUBLE DISC MB50 SYSTEM**

**SAFELITE® STF (Sentry®) Glass**

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**50mm DOUBLE DISC MB50 SYSTEM**

**SAFELITE® STF (Sentry®) 13.52mm**

**PANEL WIDTH NOTES:**

Balustrade stiffener brackets or interlinking rail required for panels <1100mm.

Minimum panel width where two or more panels are in a straight line = 1000mm.

Minimum width for short return panel = 200mm.

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**50mm DOUBLE DISC MB50 SYSTEM**

**SAFELITE® STF (Sentry®) 17.52mm**

**PANEL WIDTH NOTES:**

Balustrade stiffener brackets or interlinking rail required for panels <1700mm.

Minimum panel width where two or more panels are in a straight line = 1000mm.

Minimum width for short return panel = 200mm.

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**IMPORTANT NOTE:** The substructure to which the balustrade is to be attached must be designed by a structural engineer to resist the relevant balustrade actions as per B1/VM1.

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**Residential & Commercial**

Occupancy types A, A other, C3, B and E.

GLASS & FIXING SPECIFICATIONS:

Refer to design table for maximum glass height, maximum fixing spacing and design loads to structure.

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**FOR MAX SPACING**

Refer to design table for maximum glass height, maximum fixing spacing and design loads to structure.

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**FOR HEIGHT REQUIREMENTS**

Refer to design table for maximum glass height, maximum fixing spacing and design loads to structure.

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**MAXIMUM PANEL WIDTH**

**MINIMUM PANEL WIDTH**

1700mm

1100mm

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**Panel gap:**

MIN 110mm MAX 600mm

MIN 14mm MAX 20mm

MIN 100mm MAX 200mm

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**Join required at corner:**

IF USING SB BRACKETS

JOIN REQUIRED AT CORNER IF USING SB BRACKETS

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**Recommended barriers:**

INTERLINKING RAIL (Edgetec® or S40)

AS PER B1/AS CL 7.3.1

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**Full height silicone butt joint:**

AS PER B1/AS CL 7.3.1

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**Website:**

www.metroglass.co.nz

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www.metroglass.co.nz

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Balustrade Systems
50mm DOUBLEDISC MB50 SYSTEM

SAFELITE® EVA 15.2mm
SAFELITE® EVA 17.2mm

PANEL WIDTH NOTES:
Minimum panel width where two or more panels are in a straight line = 1000mm.
Minimum width for short return panel = 200mm.

Residential & Commercial Occupancy types A, A other, C3, B and E.

GLASS & FIXING SPECIFICATIONS:
Refer to design table for maximum glass height, maximum fixing spacing and design loads to structure.

IMPORTANT NOTE:
The substructure to which the balustrade is to be attached must be designed by a structural engineer to resist the relevant balustrade actions as per B1/VM1.
50mm DOUBLEDISC MB50 SYSTEM

**TEMPAFLOAT® 12mm**

**PANEL WIDTH NOTES:**
Minimum panel width where two or more panels are in a straight line = 1000mm.
Minimum width for short return panel = 200mm.

**INTERLINKING RAIL REQUIRED AT BARRIER HEIGHT AS PER B1/AS CL 7.3.1:**
- S40 & Edgetec® (on glass, MAX 1900mm panels)
- S40 & Edgetec® (on MFG HB50 J brackets, MAX 1700mm panels)

**GLASS & FIXING SPECIFICATIONS:**
Refer to design table for maximum glass height, maximum fixing spacing and design loads to structure.

**INTERLINKING RAIL REQUIRED AT BARRIER HEIGHT:**
- S25 (on glass only, MAX 1700mm panels)

**FOR HEIGHT REQUIREMENTS:**
Refer to design table for maximum glass height, residential & commercial occupancy types A, A other, C3, B and E.

**Panel gap:**
- MIN 14mm MAX 20mm

**50mm DOUBLEDISC MB50 SYSTEM**

**TEMPAFLOAT® 15mm**

**PANEL WIDTH NOTES:**
Minimum panel width where two or more panels are in a straight line = 1000mm.
Minimum width for short return panel = 200mm.

**INTERLINKING RAIL REQUIRED AT BARRIER HEIGHT AS PER B1/AS CL 7.3.1:**
- S40 & Edgetec® (on glass only, MAX 1700mm panels)

**FOR HEIGHT REQUIREMENTS:**
Refer to design table for maximum glass height, residential & commercial occupancy types A, A other, C3, B and E.

**Panel gap:**
- MIN 14mm MAX 20mm

**IMPORTANT NOTE:** The substructure to which the balustrade is to be attached must be designed by a structural engineer to resist the relevant balustrade actions as per B1/VM1.
**50MM DOUBLEDISC MB50 ELEVATION**

**Pool Fence**

**50mm DOUBLEDISC MB50 SYSTEM**

**POOL FENCE ONLY TEMPAFLEAT® 12mm & 15mm**

APPLIES TO FREE STANDING POOL FENCES NOT PROTECTING A FALL OF > 1000mm.  
As of Jan 2017, complies with Building Code clause F9 & section 162C of the building Act.

GLASS & FIXING SPECIFICATIONS: 
Refer to design table for maximum glass height, maximum fixing spacing and design loads to structure.

IMPORTANT NOTE: The substructure to which the balustrade is to be attached must be designed by a structural engineer to resist the relevant balustrade actions as per B1/VM1.

**50mm DOUBLEDISC MB50 SYSTEM**

**POOL FENCE ONLY SAFELITE® EVA 17.2mm**

APPLIES TO FREE STANDING POOL FENCES NOT PROTECTING A FALL OF > 1000mm.  
As of Jan 2017, complies with Building Code clause F9 & section 162C of the building Act.

GLASS & FIXING SPECIFICATIONS: 
Refer to design table for maximum glass height, maximum fixing spacing and design loads to structure.
50mm DOUBLE DISC MB50 SYSTEM
STAIR BALUSTRADE

The specifier must ensure that the handrail requirements are for stairways as per the NZ Building Code are complied with.

**END OF INTERLINKING RAIL MUST BE CONNECTED TO STRUCTURAL ELEMENT**

**CUSTOM RAIL JOINT**

**MINIMUM 1000mm (all panels)**

**LAST GLASS PANEL FUNCTIONS AS STRUCTURAL SUPPORT**

**GLASS & FIXING SPECIFICATIONS:**
Refer to design table for maximum glass height, maximum fixing spacing and design loads to structure.

**IMPORTANT NOTE:** The substructure to which the balustrade is to be attached must be designed by a structural engineer to resist the relevant balustrade actions as per B1/VMI.

**DOUBLE DISC MB50 GLASS BALUSTRADE SYSTEM**

**MIN 900**

Last glass panel to commence at less than 999mm above FL (approx 5-6 steps up)

**INTERLINKING RAIL REQUIRED**

**END OF INTERLINKING RAIL MUST BE CONNECTED TO STRUCTURAL ELEMENT**

**CUSTOM RAIL JOINT**

**MIN 50mm**

**MAX 250mm**

**MAX 300mm**

**FIXING SPACINGS FOR THIS PANEL AS PER DESIGN TABLE REQUIREMENTS**

**MINIMUM 1000mm (all panels)**

**LAST GLASS PANEL FUNCTIONS AS STRUCTURAL SUPPORT**

**GLASS & FIXING SPECIFICATIONS:**
Refer to design table for maximum glass height, maximum fixing spacing and design loads to structure.

**IMPORTANT NOTE:** The substructure to which the balustrade is to be attached must be designed by a structural engineer to resist the relevant balustrade actions as per B1/VMI.

**TEMPAFLOAT®**
Toughened Safety Glass

**SAFELITE® EVA**
Laminated Safety Glass

**SAFELITE STF (Sentry®)**
Laminated Safety Glass with Rigid Interlayer

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