INNOVATIVE GLASS
transforming spaces

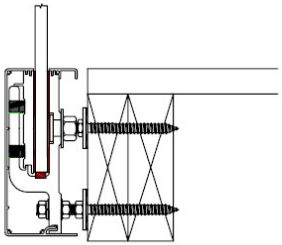
BALUSTRADE SYSTEM

FACE FIXED CHANNEL SYSTEM

Get a fresh, modern look without compromising on safety. Our glass balustrade systems work in outdoor and indoor spaces, in commercial or residential settings. They provide a physical barrier to prevent falls and access, without blocking or obscuring your view.

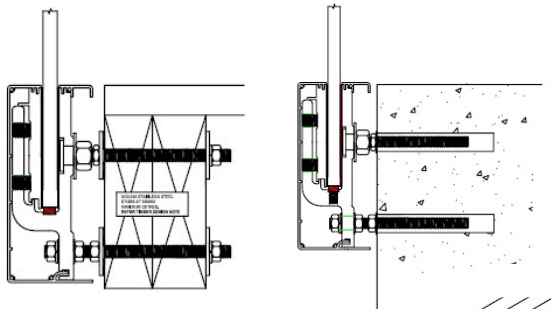
Glass balustrades are a stylish option for:

- Decks
- Stairs (both internal and external)
- Landings
- Windbreaks
- Privacy Screens
- Pool Fencing
- Or any other situation requiring a safety barrier.



Our balustrade systems use high strength extruded aluminium and can be finished in a powder coat colour of your choice or in one of the many anodized finishes available.

Gate hardware is available to complement your balustrade system.



enquiries@innovativeglass.co.nz
www.innovativeglass.co.nz

FACE FIXED BALUSTRADE SYSTEM - RECOMMENDED FIXING FOR FACE FIX TIMER

NOTES:

RESIDENTIAL OCCUPANCIES A, B, C3 & E TABLE 3,3 SB-1 AS/NZS 1170,1

GLASS PANELS ARE AT LEAST 1000mm WIDE UNLESS CONNECTED BY AN INTER LINKING HANDRAIL.

A HANDRAIL IS REQUIRED FOR STAIRS AND RAMPS EXCEEDING 1:20 SLOPE

HEIGHTS ARE MEASURED FROM THE BASE AT TOP OF CLAMP TO TOP OF GLASS.

- 1030mm 12mm TOUGHENED GLASS,
- 1300mm 15mm TOUGHENED GLASS. OCCUPANCIES - B, C3 & E.
- 1500mm 15mm TOUGHENED GLASS. OCCUPANCIES - A.

DEFLECTION OF GLASS UNDER SLS LOADS IS RESTRICTED TO A MAXIMUM OF 30mm,

TIMBER DESIGN IS THE RESPONSIBILITY OF OTHERS.
AN ENGINEERS REPORT ON SUITABILITY IS RECOMMENDED

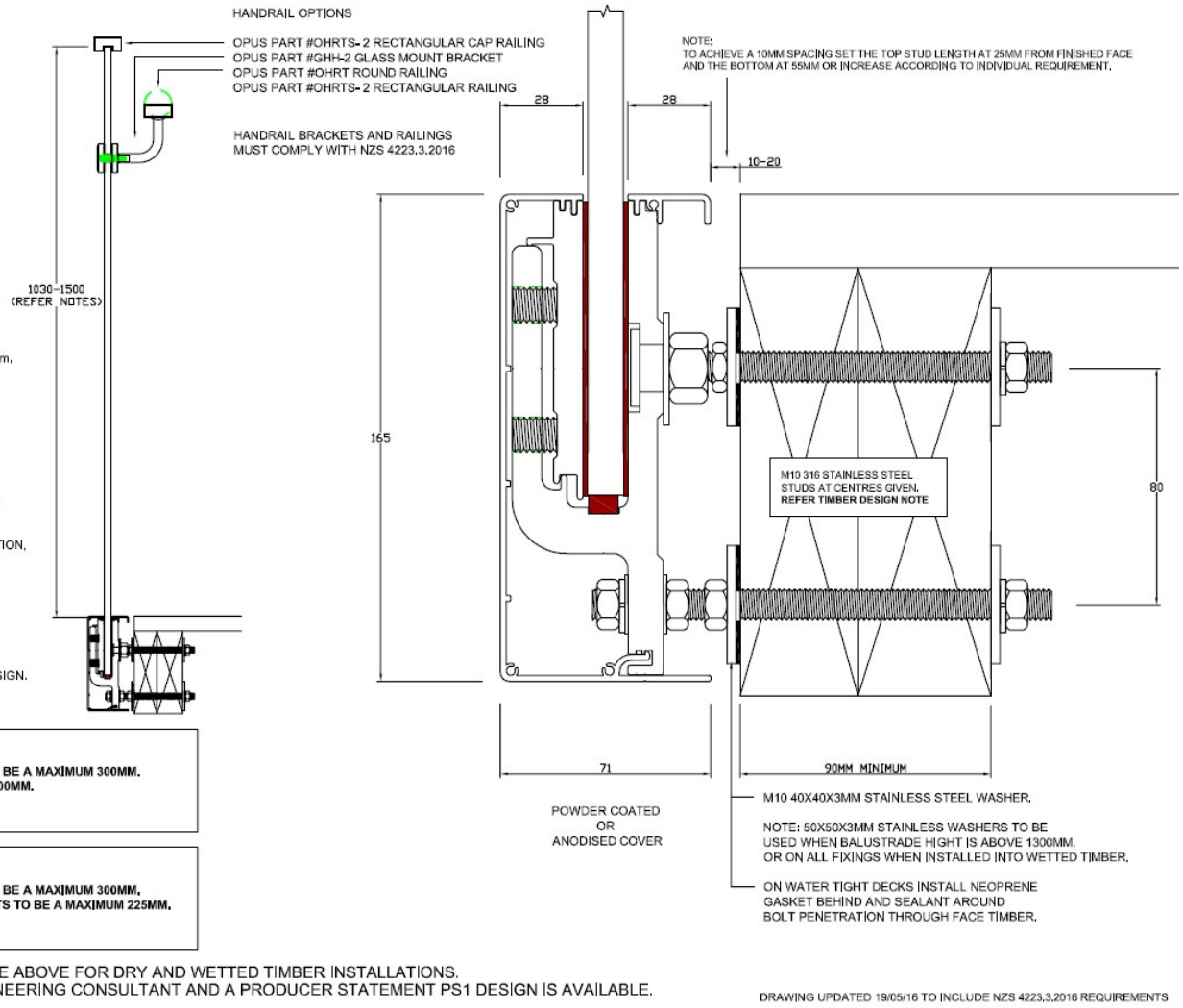
ALL FIXING HARDWARE TO BE GRADE 316 STAINLESS STEEL.

DURATEC POWDERCOAT OR 25 MICRON ANODISED FINISH IS RECOMMENDED ON THE COVERS FOR ALL INSTALLATIONS ESPECIALLY WITHIN COASTAL AREAS.

THIS PROPRIETARY BALUSTRADE SYSTEM HAS BEEN DESIGNED IN CONJUNCTION WITH THE GANZ BALUSTRADE DESIGN TABLE SB-1 AND COMPLIES WITH THE NEW ZEALAND BUILDING CODE CLAUSES B1 STRUCTURAL, B2 DURABILITY, F2 HAZARDOUS BUILDING MATERIALS AND F4 SAFETY FROM FALLING THIRD ADDITION, SUBJECT TO;

- ALL PRODUCTS MEETING THEIR PERFORMANCE SPECIFICATION.
- INSTALLATIONS MUST BE IN ACCORDANCE WITH THE INTENT OF THIS DRAWING AND COMPLY WITH NZS 4223,3,2016 REQUIREMENTS,

THE GANZ TABLE SB-1 ALLOWS A MAXIMUM ULS OF 2.1KPa AND SLS OF 1.5KPa DESIGN.



TIMBER FIXING DESIGN NOTE - DRY TIMBER:

600MM CENTRES FOR HEIGHTS UP TO 1500MM. END OF CHANNEL OR JOINTS TO BE A MAXIMUM 300MM. 50X50X3MM STAINLESS WASHER ARE TO BE USED ON BALUSTRADESABOVE 1300MM.

DESIGN ASSUMES BASE FIXING INTO SG-8 TIMBER OR BETTER.

TIMBER FIXING DESIGN NOTE - WETTED TIMBER:

600MM CENTRES FOR HEIGHTS UP TO 1300MM, END OF CHANNEL OR JOINTS TO BE A MAXIMUM 300MM, 450MM CENTRES FOR HEIGHTS 1300MM TO 1500MM, END OF CHANNEL OR JOINTS TO BE A MAXIMUM 225MM.

DESIGN ASSUMES BASE FIXING INTO SG-8 TIMBER OR BETTER.

MAXIMUM FIXINGS CENTRES TO BE AS PER THE DESIGN NOTE ABOVE FOR DRY AND WETTED TIMBER INSTALLATIONS.
THE DESIGN HAS BEEN VERIFIED BY AN INDEPENDENT ENGINEERING CONSULTANT AND A PRODUCER STATEMENT PS1 DESIGN IS AVAILABLE.

DRAWING UPDATED 19/05/16 TO INCLUDE NZS 4223,3,2016 REQUIREMENTS

FACE FIXED BALUSTRADE SYSTEM - RECOMMENDED FIXING FOR FACE FIX CONCRETE

NOTES:

RESIDENTIAL OCCUPANCIES A, B, C3 & E TABLE 3,3 SB-1 AS/NZS 1170,1

GLASS PANELS ARE AT LEAST 1000mm WIDE UNLESS CONNECTED BY AN INTER LINKING HANDRAIL.

A HANDRAIL IS REQUIRED FOR STAIRS AND RAMPS EXCEEDING 1:20 SLOPE

HEIGHTS ARE MEASURED FROM THE BASE AT TOP OF CLAMP TO TOP OF GLASS.

- 1030mm 12mm TOUGHENED GLASS.
- 1300mm 15mm TOUGHENED GLASS, OCCUPANCIES - B, C3 & E,
- 1500mm 15mm TOUGHENED GLASS. OCCUPANCIES - A.

DEFLECTION OF GLASS UNDER SLS LOADS IS RESTRICTED TO A MAXIMUM OF 30mm.

CALCULATIONS ARE BASED ON 25MPA CONCRETE. SUITABILITY IS THE RESPONSIBILITY OF OTHERS AND AN ENGINEERS REPORT IS RECOMMENDED.

ALL FIXING HARDWARE TO BE GRADE 316 STAINLESS STEEL.

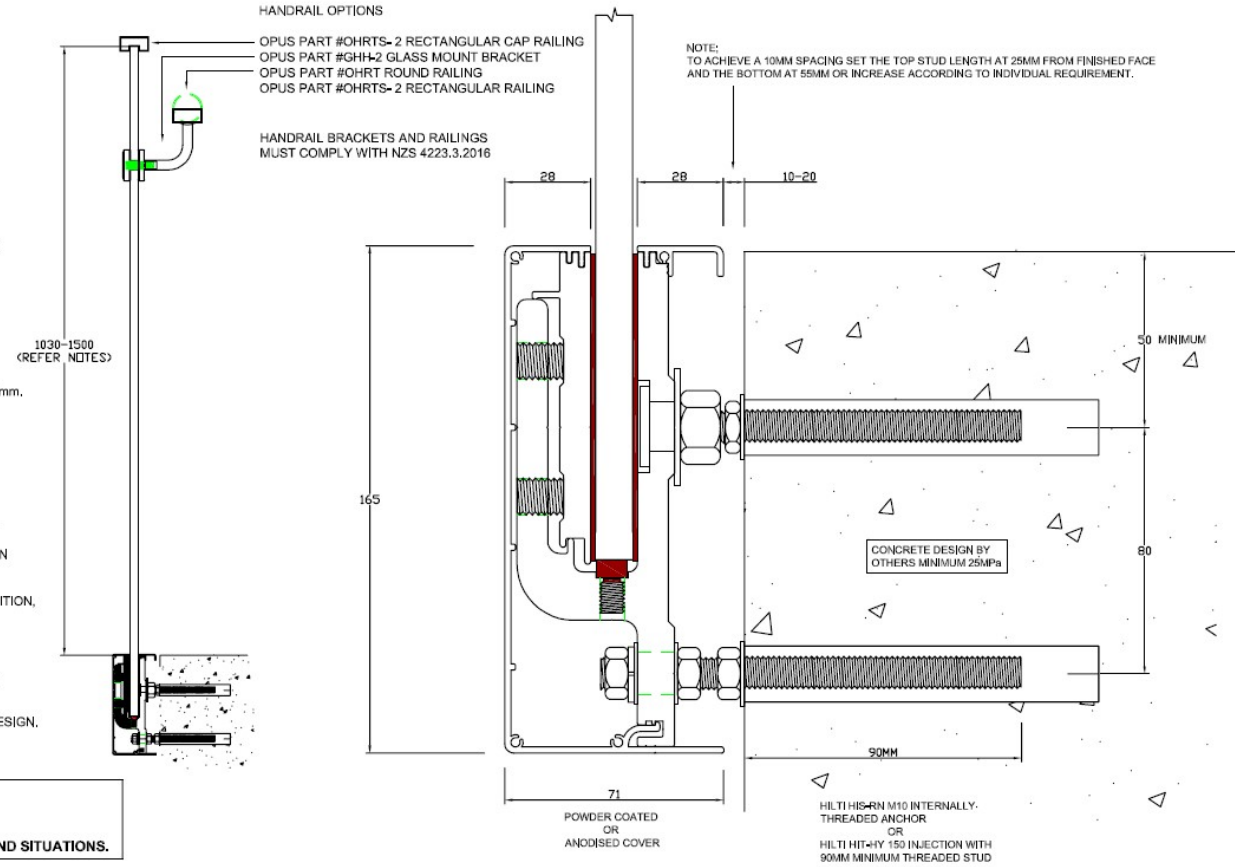
DURATEC POWDERCOAT OR 25 MICRON ANODISED FINISH IS RECOMMENDED ON THE COVERS FOR ALL INSTALLATIONS ESPECIALLY WITHIN COASTAL AREAS.

THIS PROPRIETARY BALUSTRADE SYSTEM HAS BEEN DESIGNED IN CONJUNCTION WITH THE GANZ BALUSTRADE DESIGN TABLE SB-1 AND COMPLIES WITH THE NEW ZEALAND BUILDING CODE CLAUSES B1 STRUCTURAL, B2 DURABILITY, F2 HAZARDOUS BUILDING MATERIALS AND F4 SAFETY FROM FALLING THIRD ADDITION, SUBJECT TO;

- ALL PRODUCTS MEETING THEIR PERFORMANCE SPECIFICATION.
- INSTALLATIONS MUST BE IN ACCORDANCE WITH THE INTENT OF THIS DRAWING AND COMPLY WITH NZS 4223.3.2016 REQUIREMENTS.

THE GANZ TABLE SB-1 ALLOWS A MAXIMUM ULS OF 2,1KPa AND SLS OF 1,5KPa DESIGN.

CONCRETE ANCHOR FIXING NOTE:
BASE FIXING FOR CONCRETE STRENGTH AND EDGE DIMENSIONS AS SHOWN COVERS ALL SITUATIONS AND WIND ACTIONS UP TO 1,76kPa.
ENGINEERS DESIGN OF BASE ANCHORS RECOMMENDED FOR HIGH WIND SITUATIONS.



FIXINGS DETAIL AS SHOWN TO BE A MAXIMUM OF 600MM CENTRES. END OF CHANNEL OR JOINTS TO BE A MAXIMUM 300MM.
THE DESIGN HAS BEEN VERIFIED BY AN INDEPENDENT ENGINEERING CONSULTANT AND A PRODUCER STATEMENT PS1 DESIGN IS AVAILABLE.

DRAWING UPDATED 19/05/16 TO INCLUDE NZS 4223.3.2016 REQUIREMENTS

FACE FIXED BALUSTRADE SYSTEM—RECOMMENDED FIXING FOR FACE FIX TIMBER LAG SCREW FIX

NOTES:

RESIDENTIAL OCCUPANCIES A, B, C3 & E TABLE 3.3 SB-1 AS/NZS 1170.1

GLASS PANELS ARE AT LEAST 1000mm WIDE UNLESS CONNECTED BY AN INTER LINKING HANDRAIL.

A HANDRAIL IS REQUIRED FOR STAIRS AND RAMPS EXCEEDING 1:20 SLOPE

HEIGHTS ARE MEASURED FROM THE BASE AT TOP OF CLAMP TO TOP OF GLASS.

- 1030mm 12mm TOUGHENED GLASS.
- 1300mm 15mm TOUGHENED GLASS. OCCUPANCIES - B, C3 & E.
- 1500mm 15mm TOUGHENED GLASS. OCCUPANCIES - A.

DEFLECTION OF GLASS UNDER SLS LOADS IS RESTRICTED TO A MAXIMUM OF 30mm.

TIMBER DESIGN IS THE RESPONSIBILITY OF OTHERS.
AN ENGINEERS REPORT ON SUITABILITY IS RECOMMENDED

ALL FIXING HARDWARE TO BE GRADE 316 STAINLESS STEEL.

DURATEC POWDERCOAT OR 25 MICRON ANODISED FINISH IS RECOMMENDED ON THE COVERS FOR ALL INSTALLATIONS ESPECIALLY WITHIN COASTAL AREAS.

THIS PROPRIETARY BALUSTRADE SYSTEM HAS BEEN DESIGNED IN CONJUNCTION WITH THE GANZ BALUSTRADE DESIGN TABLE SB-1 AND COMPLIES WITH THE NEW ZEALAND BUILDING CODE CLAUSES B1 STRUCTURAL, B2 DURABILITY, F2 HAZARDOUS BUILDING MATERIALS AND F4 SAFETY FROM FALLING THIRD ADDITION, SUBJECT TO:

- ALL PRODUCTS MEETING THEIR PERFORMANCE SPECIFICATION.
- INSTALLATIONS MUST BE IN ACCORDANCE WITH THE INTENT OF THIS DRAWING AND COMPLY WITH NZS 4223.3.2016 REQUIREMENTS.

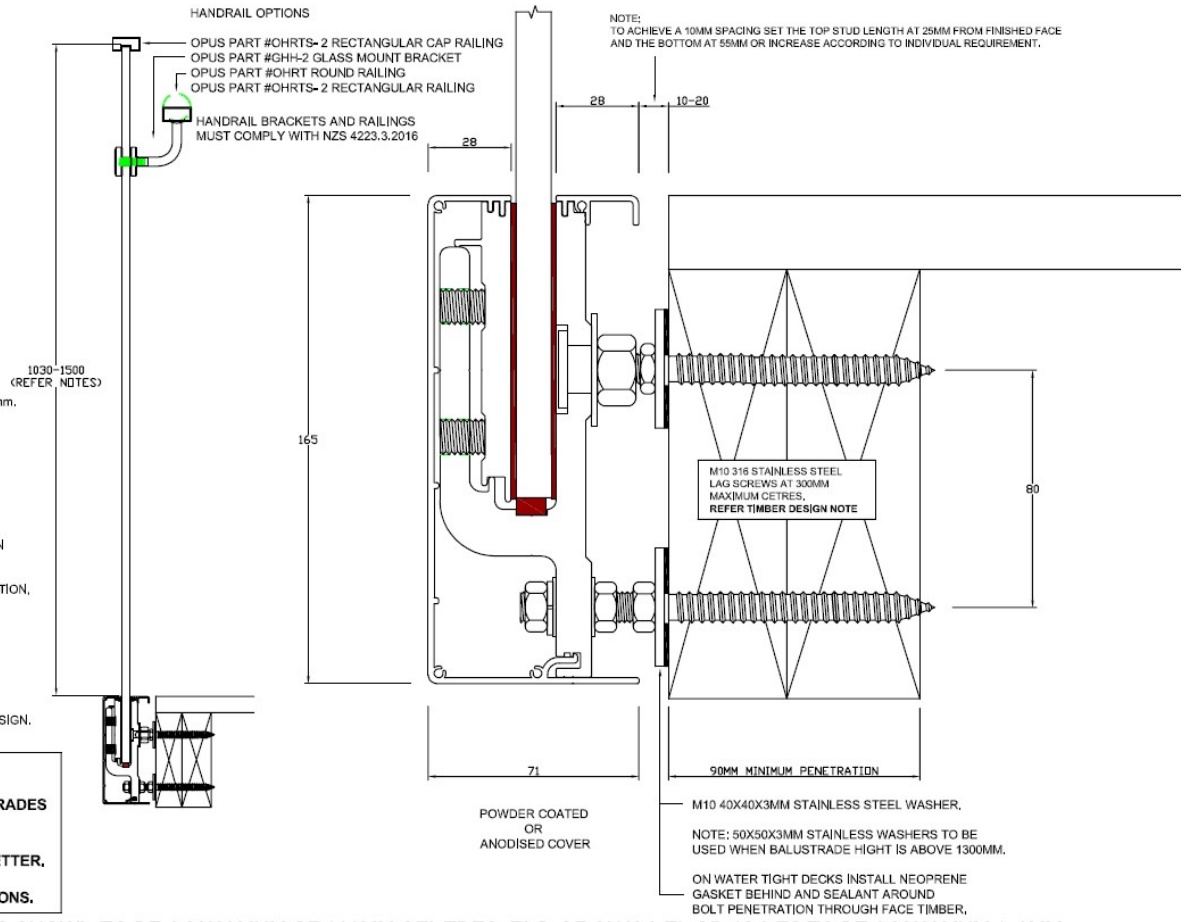
THE GANZ TABLE SB-1 ALLOWS A MAXIMUM ULS OF 2.1KPa AND SLS OF 1.5KPa DESIGN.

TIMBER FIXING DESIGN NOTE:

50X50X3MM STAINLESS WASHER ARE TO BE USED ON BALUSTRADES ABOVE 1300MM

DESIGN ASSUMES BASE FIXING INTO DRY MSG-8 TIMBER OR BETTER.

ENGINEERS DESIGN RECOMMENDED FOR WET TIMBER SITUATIONS.



FIXINGS DETAIL FOR LAG SCREW FIXING AS SHOWN TO BE A MAXIMUM OF 300MM CENTRES. END OF CHANNEL OR JOINTS TO BE A MAXIMUM 150MM.
MAXIMUM BALUSTRADE HEIGHT IN HIGH WIND SITUATIONS - 1200MM AND 1300MM IN MEDIUM WIND SITUATIONS.
THE DESIGN HAS BEEN VERIFIED BY AN INDEPENDENT ENGINEERING CONSULTANT AND A PRODUCER STATEMENT PS1 DESIGN IS AVAILABLE.

DRAWING UPDATED 19/05/16 TO INCLUDE NZS 4223.3.2016 REQUIREMENTS