

BALUSTRADE SYSTEM

SEMI FRAMELESS BALUSTRADE SYSTEM

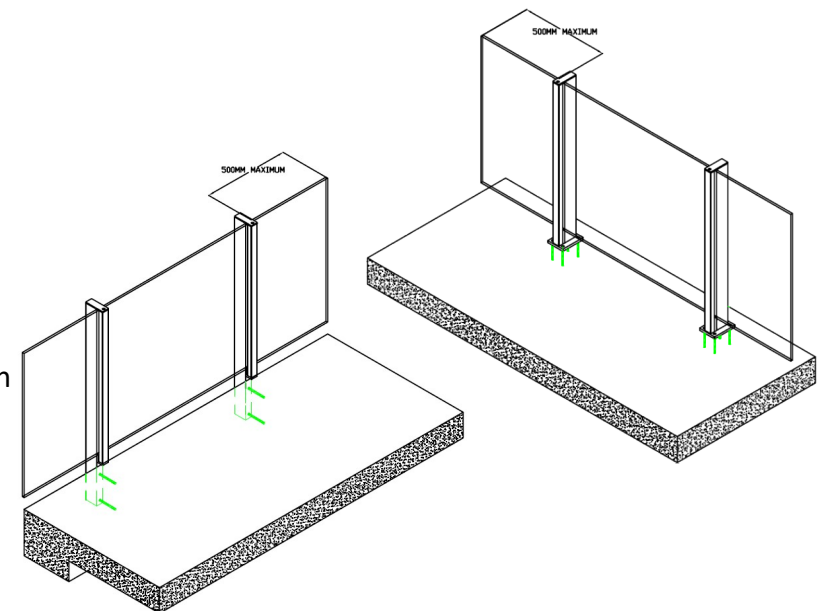
Get a fresh, modern look without compromising on safety. Our glass balustrade systems work in outdoor and indoor spaces, in commercial or residential settings. They provide a physical barrier to prevent falls and access, without blocking or obscuring your view.

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.



BALUSTRADE SYSTEM

OB100 SHOWING RECOMMENDED FIXING FOR TOP FIX CONCRETE

DOMESTIC, RESIDENTIAL & NON RESIDENTIAL GLASS INFILL BALUSTRADES COVERING OCCUPANCIES A, B, C3 & E OF TABLE AS/NZS 1170.1:2002 UP TO A MAXIMUM HEIGHT OF 2000MM ABOVE GROUND LEVEL.	
BALUSTRADE GLASS - 10MM & 12MM TOUGHENED, OR 12MM TOUGHENED LAMINATE.	
PPOOL FENCING - 12MM TOUGHENED, OR 12MM TOUGHENED LAMINATE TO A MAXIMUM HEIGHT OF 2000MM ABOVE GROUND LEVEL.	MAXIMUM POST CENTERS WITH OR WITHOUT HANDRAIL
INTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24
EXTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24
PPOOL FENCE MINIMUM HEIGHT OF 1200MM ABOVE GL PLEASE NOTE: PPOOL FENCING SUBJECT TO ULS LOADS EXCEEDING 1.76KPa TO 2.1KPa POST TO BE INSTALLED AT-	REFER OPUS TECHNICAL DRAWING OB100/24

COMMERCIAL AND OFFICES WITHOUT CROWDING, RETAIL, RESTAURANTS & BARS COVERING OCCUPANCIES C1, C2 & D OF TABLE AS/NZS 1170.1:2002 UP TO A MAXIMUM HEIGHT OF 2000MM ABOVE GROUND LEVEL.	
GLASS - 15MM TOUGHENED OR 16MM TOUGHENED LAMINATE.	
MAXIMUM POST CENTERS WITH OR WITHOUT OPTIONAL HANDRAIL	
INTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24
EXTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24

NOTES:

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.

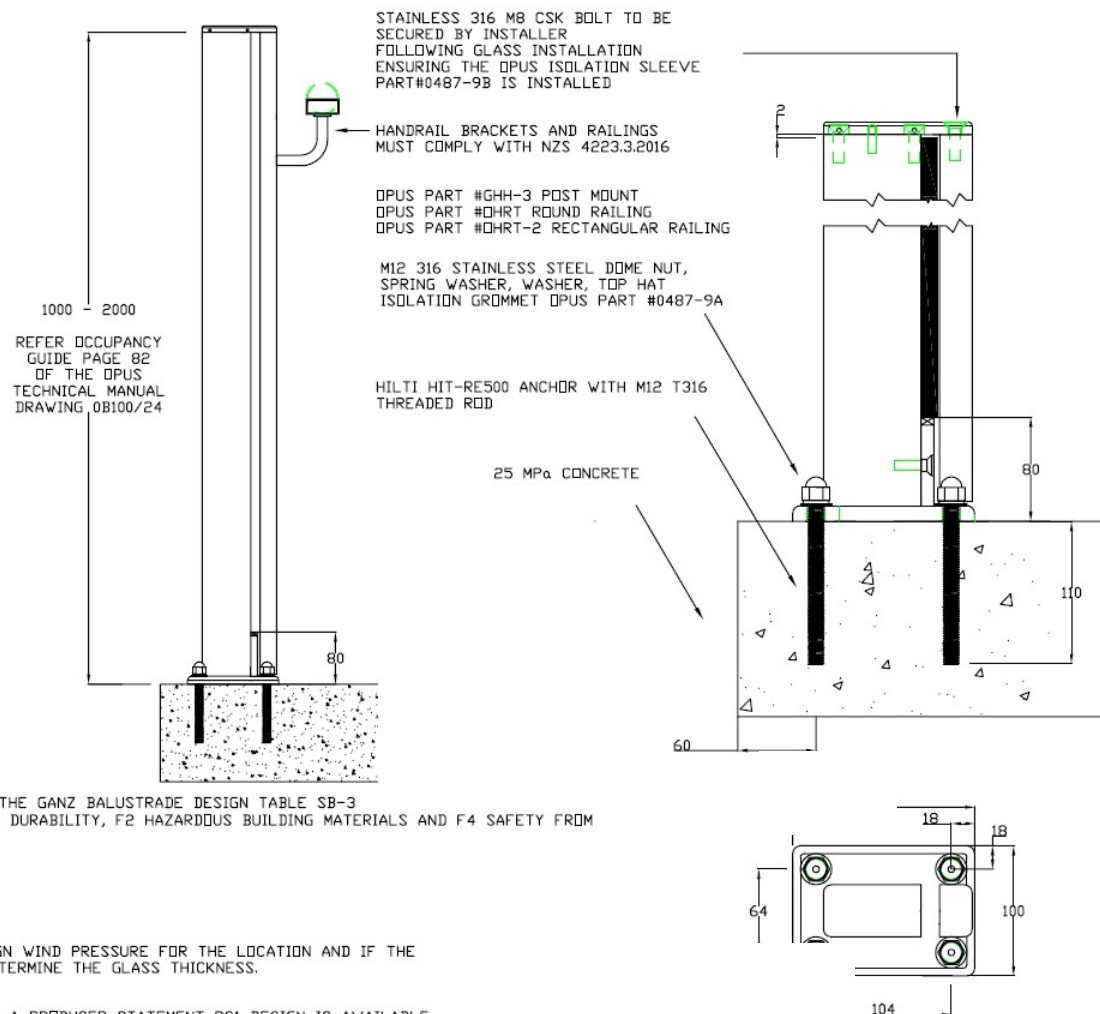
DURATEC POWDERCOAT OR 25 MICRON ANODISED FINISH IS RECOMMENDED FOR ALL INSTALLATIONS ESPECIALLY WITHIN COASTAL AREAS.

THIS PROPRIETARY BALUSTRADE SYSTEM HAS BEEN DESIGNED IN CONJUNCTION WITH THE GANZ BALUSTRADE DESIGN TABLE SB-3 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-3 ALLOWS A MAXIMUM ULS OF 2.1KPa AND SLS OF 1.5KPa DESIGN WIND PRESSURE FOR THE LOCATION AND IF THE SITE DESIGN WIND PRESSURE EXCEEDS THESE, SPECIFIC DESIGN IS REQUIRED TO DETERMINE THE GLASS THICKNESS.

THE DESIGN HAS BEEN VERIFIED BY AN INDEPENDENT ENGINEERING CONSULTANT AND A PRODUCER STATEMENT PS1 DESIGN IS AVAILABLE.



THIS POST IS PROTECTED BY NZ DESIGN APPLICATION NO 416723

DRAWING UPDATED 19/05/16 TO INCLUDE NZS 4223.3:2016 REQUIREMENTS



BALUSTRADE SYSTEM

OB101-C SHOWING RECOMMENDED FIXING FOR FACE FIX TIMBER/STEEL

DOMESTIC, RESIDENTIAL & NON RESIDENTIAL GLASS INFILL BALUSTRADES COVERING OCCUPANCIES A, B, C3 & E OF TABLE AS/NZS 1170.1:2002 UP TO A MAXIMUM HEIGHT OF 2000MM ABOVE THE TOP FIXING.	
BALUSTRADE GLASS - 10MM & 12MM TOUGHENED, OR 12MM TOUGHENED LAMINATE.	
POOL FENCING - 12MM TOUGHENED, OR 12MM TOUGHENED LAMINATE TO A MAXIMUM HEIGHT OF 2000MM ABOVE GROUND LEVEL	MAXIMUM POST CENTERS WITH OR WITHOUT HANDRAIL
INTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24
EXTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24
POOL FENCE MINIMUM HEIGHT OF 1200MM ABOVE G.L. PLEASE NOTE: POOL FENCING SUBJECT TO ULS LOADS EXCEEDING 1.76KPa TO 2.1KPa POST TO BE INSTALLED AT-	REFER OPUS TECHNICAL DRAWING OB100/24

COMMERCIAL AND OFFICES WITHOUT CROWDING, RETAIL, RESTAURANTS & BARS COVERING OCCUPANCIES C1, C2 & D OF TABLE AS/NZS 1170.1:2002 UP TO A MAXIMUM HEIGHT OF 2000MM ABOVE THE TOP FIXING	
GLASS - 15MM TOUGHENED OR 16MM TOUGHENED LAMINATE.	
INTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24
EXTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24

NOTES:

TIMBER/STEEL CALCULATIONS ARE THE RESPONSIBILITY OF OTHERS.

FIXING CENTRES CAN BE REDUCED TO 100MM ON RESIDENTIAL INSTALLATION ONLY. TIMBER MUST BE MSG8 OR BETTER.

ALL FIXING HARDWARE TO BE GRADE 316 STAINLESS STEEL.

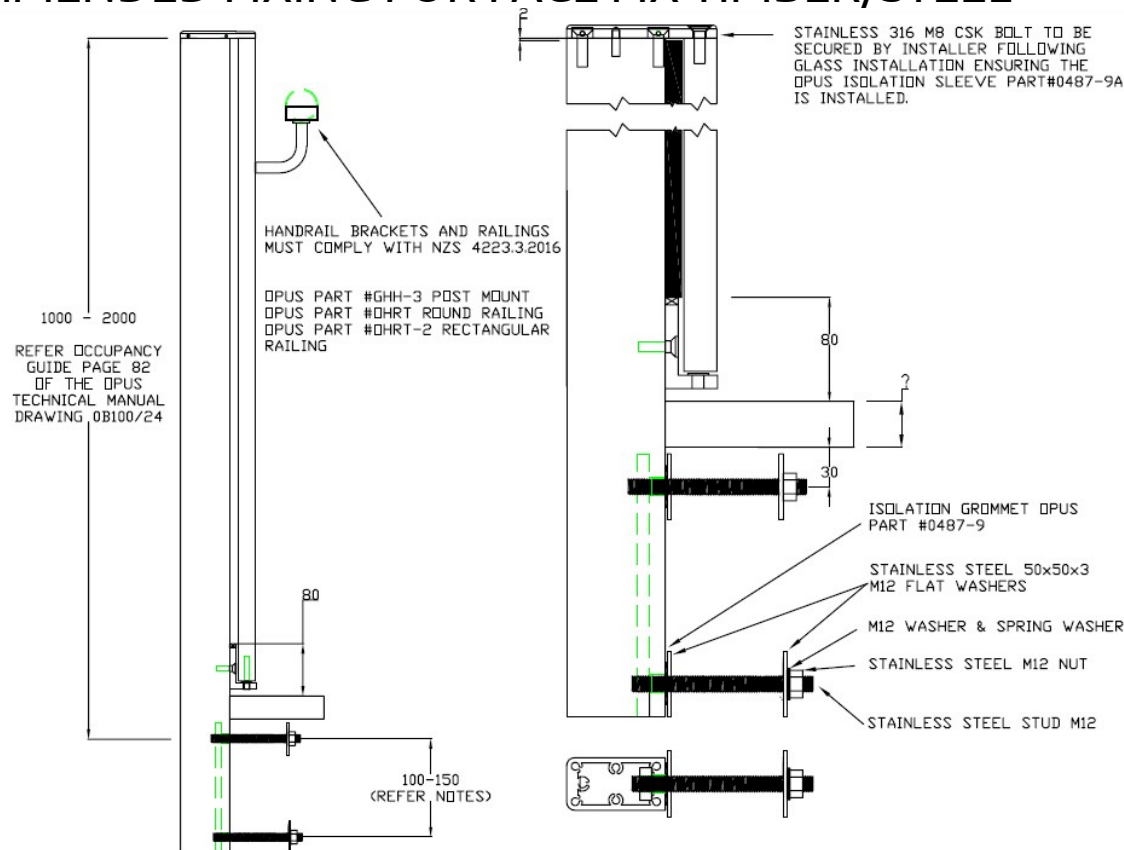
DURATEC POWDERCOAT OR 25 MICRON ANODISED FINISH IS RECOMMENDED FOR ALL INSTALLATIONS ESPECIALLY WITHIN COASTAL AREAS.

THIS PROPRIETARY BALUSTRADE SYSTEM HAS BEEN DESIGNED IN CONJUNCTION WITH THE GANZ BALUSTRADE DESIGN TABLE SB-3 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-3 ALLOWS A MAXIMUM ULS OF 2.1KPa AND SLS OF 1.5KPa DESIGN WIND PRESSURE FOR THE LOCATION AND IF THE SITE DESIGN WIND PRESSURE EXCEEDS THESE, SPECIFIC DESIGN IS REQUIRED TO DETERMINE THE GLASS THICKNESS.

THE DESIGN HAS BEEN VERIFIED BY AN INDEPENDENT ENGINEERING CONSULTANT AND A PRODUCER STATEMENT PS1 DESIGN IS AVAILABLE.



TIMBER/STEEL BY OTHERS

THIS POST IS PROTECTED BY NZ DESIGN APPLICATION NO 416723

DRAWING UPDATED 19/05/16 TO INCLUDE NZS 4223.3:2016 REQUIREMENTS

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

BALUSTRADE SYSTEM

OB101 SHOWING RECOMMENDED FIXING FOR FACE FIX CONCRETE/TIMBER

DOMESTIC, RESIDENTIAL & NON RESIDENTIAL GLASS INFILL BALUSTRADES COVERING OCCUPANCIES A, B, C3 & E OF TABLE AS/NZS 1170.1:2002 UP TO A MAXIMUM HEIGHT OF 2000MM ABOVE THE TOP FIXING.	
BALUSTRADE GLASS - 10MM & 12MM TOUGHENED, OR 12MM TOUGHENED LAMINATE.	
POOL FENCING - 12MM TOUGHENED, OR 12MM TOUGHENED LAMINATE TO A MAXIMUM HEIGHT OF 2000MM ABOVE GROUND LEVEL	MAXIMUM POST CENTERS WITH OR WITHOUT HANDRAIL
INTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24
EXTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24
POOL FENCE MINIMUM HEIGHT OF 1200MM ABOVE GL PLEASE NOTE: POOL FENCING SUBJECT TO ULS LOADS EXCEEDING 1.76KPa TO 2.1KPa POST TO BE INSTALLED AT-	REFER OPUS TECHNICAL DRAWING OB100/24

COMMERCIAL AND OFFICES WITHOUT CROWDING, RETAIL, RESTAURANTS & BARS COVERING OCCUPANCIES C1, C2 & D OF TABLE AS/NZS 1170.1:2002 UP TO A MAXIMUM HEIGHT OF 2000MM ABOVE THE TOP FIXING	
GLASS - 15MM TOUGHENED OR 16MM TOUGHENED LAMINATE.	
INTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24
EXTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24

NOTES:

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

FIXING CENTRES CAN BE REDUCED TO 100MM ON RESIDENTIAL INSTALLATION ONLY. TIMBER MUST BE MSG8 OR BETTER.

ALL FIXING HARDWARE TO BE GRADE 316 STAINLESS STEEL.

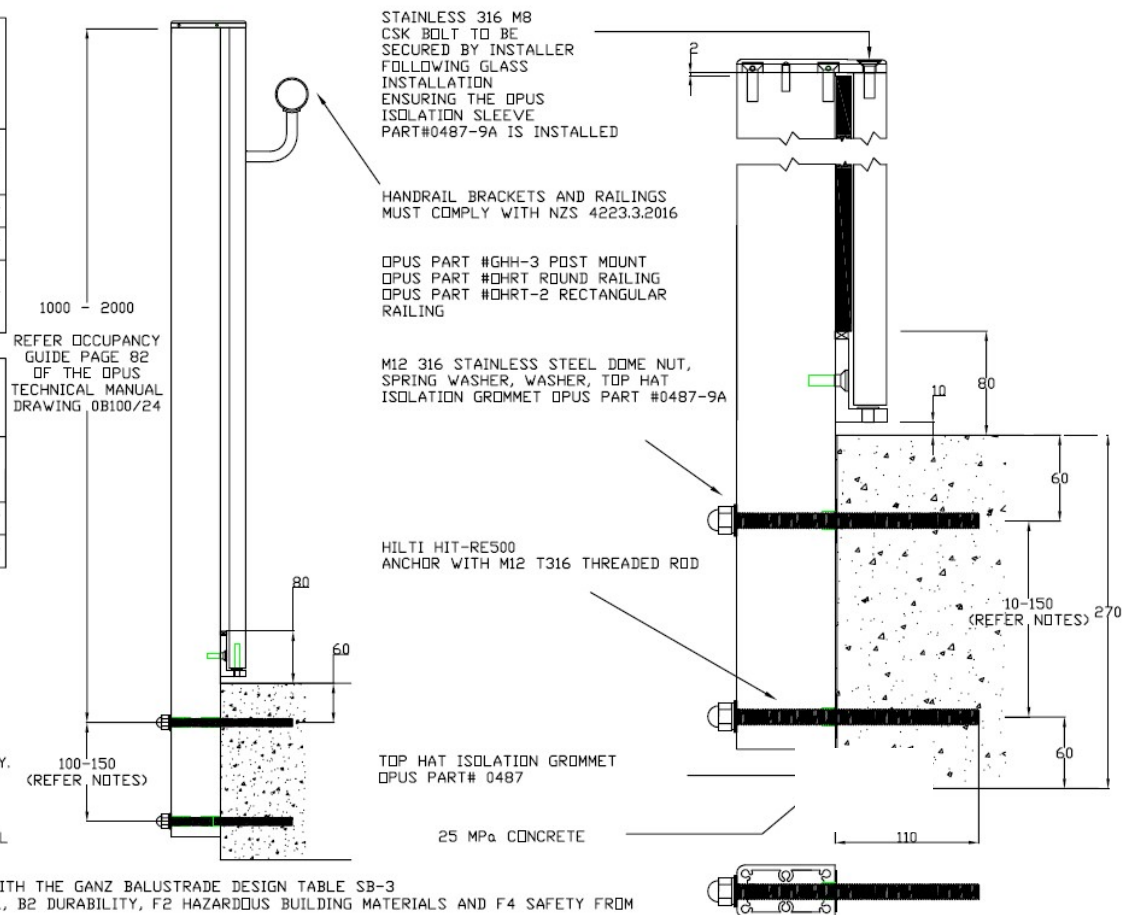
DURATEC POWDERCOAT OR 25 MICRON ANODISED FINISH IS RECOMMENDED FOR ALL INSTALLATIONS ESPECIALLY WITHIN COASTAL AREAS.

THIS PROPRIETARY BALUSTRADE SYSTEM HAS BEEN DESIGNED IN CONJUNCTION WITH THE GANZ BALUSTRADE DESIGN TABLE SB-3 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-3 ALLOWS A MAXIMUM ULS OF 2.1KPa AND SLS OF 1.5KPa DESIGN WIND PRESSURE FOR THE LOCATION AND IF THE SITE DESIGN WIND PRESSURE EXCEEDS THESE, SPECIFIC DESIGN IS REQUIRED TO DETERMINE THE GLASS THICKNESS.

THE DESIGN HAS BEEN VERIFIED BY AN INDEPENDENT ENGINEERING CONSULTANT AND A PRODUCER STATEMENT PS1 DESIGN IS AVAILABLE.



PLEASE NOTE:
NON-CONSEALED FIXINGS CAN ALSO BE USED FOR TIMBER
INSTALLATION. PLEASE REFER TO OPUS ORDER FORM OB101/10

THIS POST IS PROTECTED BY NZ DESIGN APPLICATION NO 416723

DRAWING UPDATED 19/05/16 TO INCLUDE NZS 4223.3:2016 REQUIREMENTS

BALUSTRADE SYSTEM

OB101-S SHOWING RECOMMENDED FIXING FOR FACE FIX TIMBER USING SPANX FASTENERS

DOMESTIC, RESIDENTIAL GLASS INFILL BALUSTRADES COVERING OCCUPANCIES A, B, C3 & E OF TABLE AS/NZS 1170.1:2002 UP TO A MAXIMUM HEIGHT OF 1100MM ABOVE GROUND LEVEL.		
BALUSTRADE GLASS - 10MM & 12MM TOUGHENED, OR 12MM TOUGHENED LAMINATE.	MAXIMUM POST CENTERS WITH OR WITHOUT HANDRAIL	
WIND PRESSURE MAXIMUM - 1.76 kPa	DRY TIMBER	WET
A INTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24	
AREAS C1 & C2	REFER OPUS TECHNICAL DRAWING OB100/24	
AREAS B,E,C3	REFER OPUS TECHNICAL DRAWING OB100/24	
WIND PRESSURE MAXIMUM -2.10 kPa		
A INTERIOR BALUSTRADE	REFER OPUS TECHNICAL DRAWING OB100/24	
AREAS C1 & C2	REFER OPUS TECHNICAL DRAWING OB100/24	
AREAS B,E,C3	REFER OPUS TECHNICAL DRAWING OB100/24	

NOTES:

FIXING HARDWARE TO BE STAINLESS STEEL 8MM SPAX - 180MM LONG

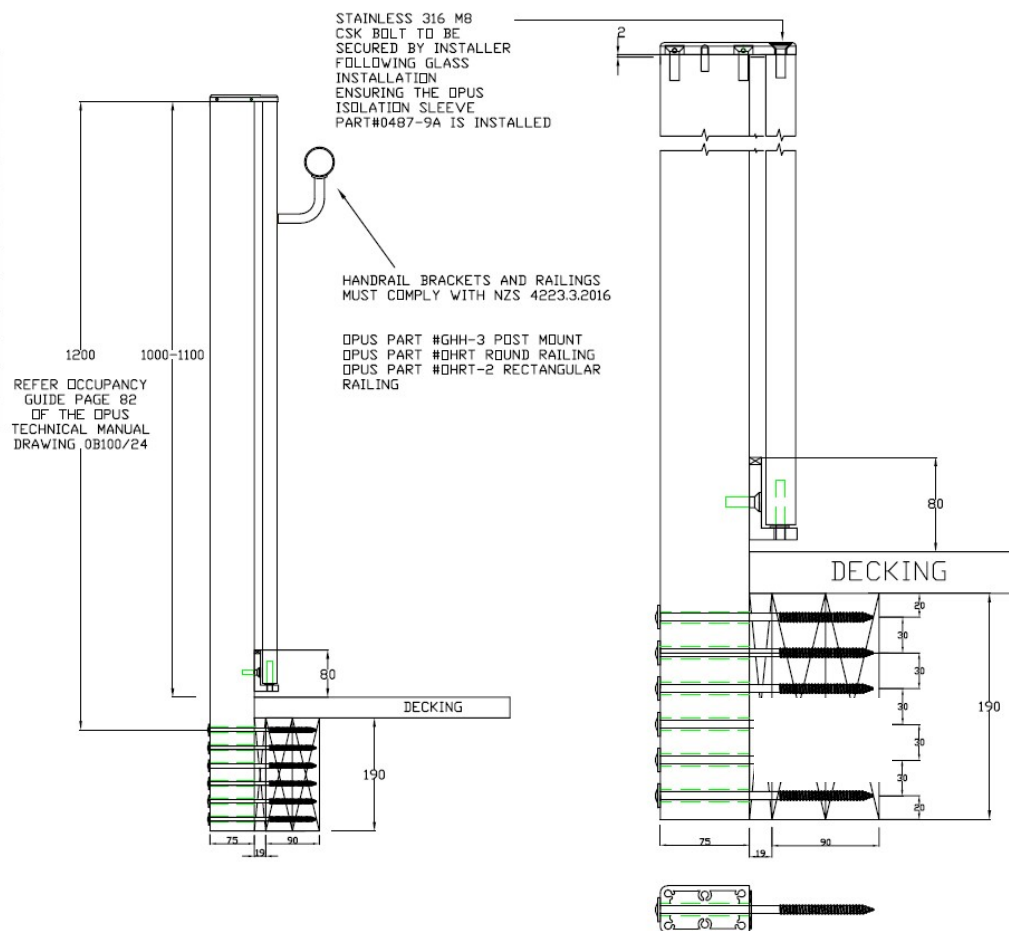
DURATEC POWDERCOAT OR 25 MICRON ANODISED FINISH IS
RECOMMENDED FOR ALL INSTALLATIONS ESPECIALLY
WITHIN COASTAL AREAS.

THIS PROPRIETARY BALUSTRADE SYSTEM HAS BEEN DESIGNED
IN CONJUNCTION WITH THE GANZ BALUSTRADE DESIGN TABLE SB-3
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-3 ALLOWS A MAXIMUM ULS OF 2.1KPa AND
SLS OF 1.5KPa DESIGN WIND PRESSURE FOR THE LOCATION
AND IF THE SITE DESIGN WIND PRESSURE EXCEEDS THESE,
SPECIFIC DESIGN IS REQUIRED TO DETERMINE THE GLASS THICKNESS.

THE DESIGN HAS BEEN VERIFIED BY AN INDEPENDENT ENGINEERING CONSULTANT AND A PRODUCER STATEMENT PSI DESIGN IS AVAILABLE.



THIS POST IS PROTECTED BY NZ DESIGN APPLICATION NO 416723

DRAWING UPDATED 19/05/16 TO INCLUDE NZS 4223.3:2016 REQUIREMENTS