LAMINATE TO A MAXIMUM HEIGHT OF 2000MM ABOVE GROUND LEVEL POOL FENCE MINIMUM HEIGHT OF 1200MM ABOVE G.L PLEASE NOTE: POOL FENCING - 12MM TOUGHENED, OR 12MM TOUGHENED LAMINATE INTERLAYER NOT INCLUDED IN GLASS THICKNESS. BALUSTRADE GLASS - 10MM & 12MM TOUGHENED OR POOL FENCING SUBJECT TO ULS LOADS EXCEEDING 1.76KPa TO 2.1KPa POST TO BE INSTALLED AT-**EXTERIOR BALUSTRADE** INTERIOR BALUSTRADE 12MM TOUGHENED LAMINATE. 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. MAXIMUM POST CENTERS WITH OR WITHOUT HANDRAIL REFER OPUS TECHNICAL DRAWING OB100/24 REFER OPUS TECHNICAL DRAWING OB100/24 DRAWING OB100/24

REFER OCCUPANCY

1000 - 2000

OPUS PART #OHRT ROUND RAILING OPUS PART #OHRT-2 RECTANGULAR RAILING

OPUS PART #GHH-3 POST MOUNT

HANDRAIL BRACKETS AND RAILINGS MUST COMPLY WITH NZS 4223.3.2016

STAINLESS 316 M8 CSK BOLT TO BE SECURED BY INSTALLER FOLLOWING GLASS INSTALLATION ENSURING THE OPUS ISOLATION SLEEVE PART#0487-9A IS INSTALLED.

TECHNICAL MANUAL DRAWING 0B100/24 GUIDE PAGE 82 OF THE OPUS

BALUSTRADE GLASS - 15MM TOUGHENED OR 16MM TOUGHENED LAMINATE. COMMERCIAL AND OFFICES WITHOUT CROWDING, RETAIL, RESTAURANTS & BARS COVERING OCCUPANCIES C1, C2 & D LAMINATE INTERLAYER NOT INCLUDED IN GLASS THICKNESS. OF TABLE AS/NZS 1170.1.2002 UP TO A MAXIMUM HEIGHT OF 2000MM EXTERIOR BALUSTRADE INTERIOR BALUSTRADE ABOVE THE TOP FIXING. MAXIMUM POST CENTERS WITH OR WITHOUT OPTIONAL HANDRAIL DRAWING OB100/24 REFER OPUS TECHNICAL REFER OPUS TECHNICAL DRAWING OB100/24

NOTES

TIMBER/STEEL CALCULATIONS ARE THE RESPONSIBILITY OF OTHERS.

ALL FIXING HARDWARE TO BE GRADE 316 STAINLESS STEEL

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

> (REFER NOTES) 100-150

> > Щ

STAINLESS STEEL M12 NUT M12 WASHER & SPRING WASHER

STAINLESS STEEL STUD M12

M12 FLAT WASHERS

STAINLESS STEEL 50x50x3

PART #0487-9

ISOLATION GROMMET OPUS

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,

- 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

EXCEEDS THESE, SPECIFIC DESIGN IS REQUIRED TO DETERMINE THE GLASS THICKNESS. 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

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

TIMBER/STEEL BY OTHERS

DRAWING UPDATED 19/05/16 TO INCLUDE NZS 4223.3.2016 REQUIREMENTS DRAWING UPDATED 29/11/17 TO INCLUDE GLASS TYPES

OPUS SEMI - FRAMELESS BALUSTRADE POST OB101-C SHOWING RECOMMENDED FIXING FOR FACE FIX TIMBER/STEEL

(C) OPUS MANUFACTURING LTD 2012

TECHNICAL MANUAL PAGE 81C DRAWING NUMBER: OB100/4

OPUSTM A MANUFACTURING LTD

P.O.Box 5750 Frankton, Hamilton, New Zealand

Fax: +64 7 847 5003 Telephone: +64 7 847 5001

11 Grasslands Place