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PRODUCER STATEMENT - PS1 - DESIGN

(Guidance on use of Producer Statements (formerly page 2) is available at www.engineeringnz.org)

ISSUED BY: Structural Engineers NZ Ltd		
	(Design F	Firm)
TO: Moddex NZ LLP		
Any Territorial Authority	(Owner/Deve	, ,
TO BE SUPPLIED TO: Ally Territorial Authority	,(Building Consen	nt Authority)
IN RESPECT OF: Structural Design of Handrai		
IN RESPECT OF HAMMAN AND AND AND AND AND AND AND AND AND A	(Description of Bu	uilding Work)
AT: Anywhere in New Zealand		
Anyupara in Nou Zagland	(Addres	•
Town/City: Allywhere III New Zealand (Address)	LOT	DP SO
We have been engaged by the owner/developer	referred to above	to provide:
Structural Engineering		
	(Extent of Enga	,
services in respect of the requirements of Clause		
All or Part only (as specified in the attach	ment to this stater	ment), of the proposed building work.
The design carried out by us has been prepared	in accordance with	h:
■ Compliance Documents issued by the Ministr	v of Business. Inn	ovation & Employment. B1/VM1or
	,	(verification method/acceptable solution)
Alternative solution as per the attached sched	łule	
The proposed building work covered by this prod	lucer statement is	described on the drawings titled:
together with the specification, and other docume	ante set out in the	and numbered Refer to attached schedule;
On helpelf of the Design Firms and subject to		
On behalf of the Design Firm, and subject to: (i) Site verification of the following design assum	ptions Refer to att	tached schedule
(ii) All proprietary products meeting their perform	ance specification	requirements;
I believe on reasonable grounds that a) the bu	ilding, if constructe	ed in accordance with the drawings, specifications, and other
·		with the relevant provisions of the Building Code and that be
construction monitoring/observation:	ve the necessary of	competency to do so. I also recommend the following level
	Engineering Categories	s) or as per agreement with owner/developer (Architectural)
Perrit Perrit Perrit Perrit (, e. Las por agreement man enmonactorope. (Fasimostala)
	ar	m: CPEng# Reg Arch#
(Name of Design Professional)		BE (Hons) CPEna CEna
The Design Firm issuing this statement holds a cu	N∠IA and hol Irrent policy of Prof	Id the following qualifications: BE (Hons) CPEng CEng fessional Indemnity Insurance no less than \$200,000*.
The Design Firm is a member of ACENZ:		
SIGNED BY Sadeer Kattan		(Signature). Sadeer Kattan Digitally signed by Sadeer Kattan Date: 2021.02.12 09:22:14 +1310
(Name of Design	Professional)	(Signature)
ON BEHALF OF Structural Engineers NZ Ltd		Data 12/02/2021
(Design F	irm)	DateDate

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000*.

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.

THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, ENGINEERING NEW ZEALAND AND NZIA

SCHEDULE

*From Page 1:

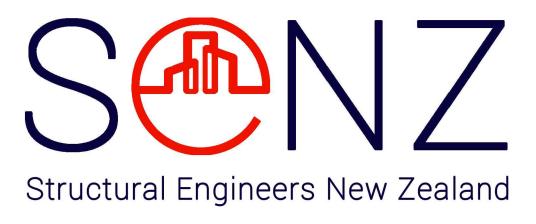
On behalf of the design firm and subject to site verification of the following design assumptions:

- 1. The supporting structure, as designed by others, is able to withstand the applied loads. This must be effectively communicated with the building owner or manager. SENZ takes no responsibility should this not be followed.
- 2. The installation of the handrails is in accordance with the limits and specifications as set out on the drawing listed below.
- 3. The handrails are designed for loading class C3, as set out in AS/NZS 1170.1.

DRAWINGS:

Drawing Number	Sheet	Revision	Date	Description
SENZ-033-004-G-000	1	0	12/02/2021	Drawing Schedule
SENZ-033-004-S-001	1	0	12/02/2021	Typical Horizontal Barrier Elevation
SENZ-033-004-S-002	1	0	12/02/2021	Barrier Details and Specifications Elevation
SENZ-033-004-S-003	1	0	12/02/2021	Typical Horizontal Handrails Elevation
SENZ-033-004-S-004	1	0	12/02/2021	Handrail Details and Specifications Elevation

STRUCTURAL DRAWINGS STANDARD HANDRAILS JOB NUMBER - 033 - 004



DWG NO	TITLE	REV	REV DATE
033-004-G-000	DRAWING SCHEDULE	0	12/02/2021
033-004-S-001 TYPICAL HORIZONTAL BARRIER ELEVATION		0	12/02/2021
033-004-S-002	BARRIER DETAILS AND SPECIFICATION	0	12/02/2021
033-004-S-003	TYPICAL HORIZONTAL HANDRAIL ELEVATION	0	12/02/2021
033-004-S-004	HANDRAIL DETAILS AND SPECIFICATION	0	12/02/2021

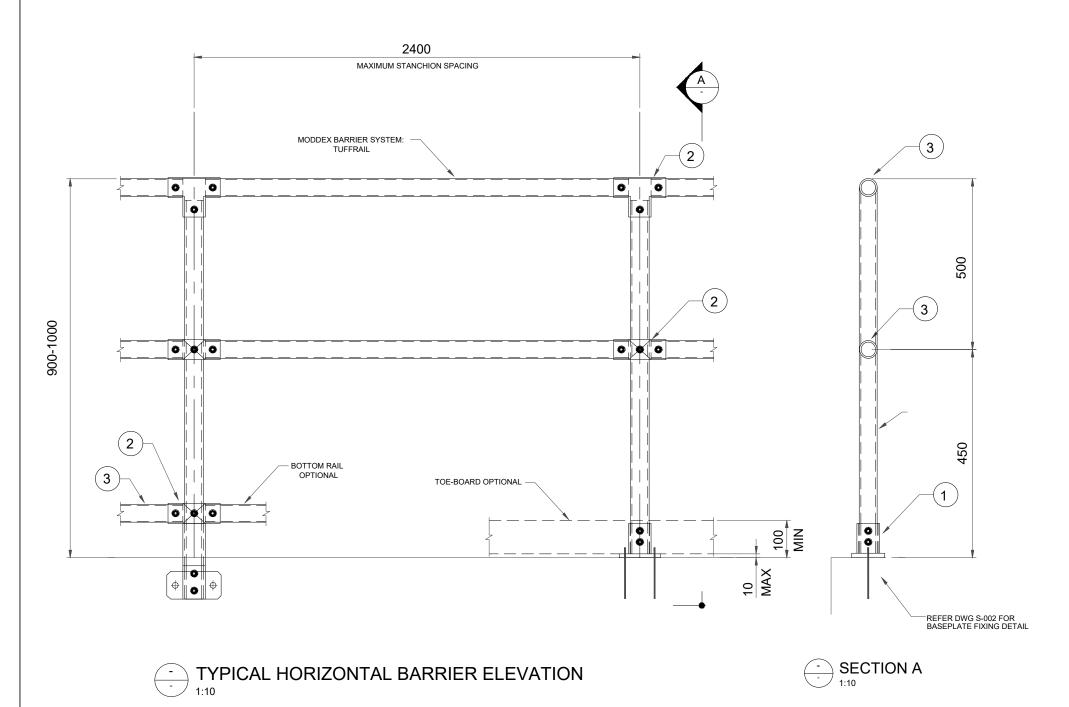
						Business Address:
						Office Number:
						Mobile Number:
0	FOR CONSTRUCTION	MW	SK	SK	12/02/21	E-mail Address:
REV	Issue	Ву	Chk	Appd	Date	Website:

s: Level 1 52 Highbrook Drive, East Tamaki, Auckland (+64) 09 275 6029 (+64) 021 967 977 info@structural-engs.co.nz www.structural-engs.co.nz





Project: MODDEX BARRIER SYSTEM: TUFFRAIL	FOR CONSTRUCTION		
Title: DRAWING SCHEDULE	Drawing No. 033 - 004 - G - 000	Rev.	



GENERAL

- 1. THESE SPECIFICATIONS SHALL TAKE PRECEDENCE UNLESS OTHERWISE ADVISED BY THE DESIGN ENGINEER
- 2. COMPLY WITH CONTRACTORS HSE PLAN.
- COMPLY WITH HEALTH & SAFETY IN EMPLOYMENT ACT & REGULATIONS.
- MAINTAIN SAFE SITE AND WORK PRACTICES AT ALL TIMES.
- 3. ALL WORK AND MATERIALS SHALL COMPLY WITH THE BUILDING ACT & REGULATIONS.
- 4. THE BUILDING DESIGNER IS RESPONSIBLE FOR ENSURING THE NECESSARY SUPPORTING STRUCTURE IS PROVIDED FOR THE BARRIER SYSTEM.
- 5. THE SUPPORTING STRUCTURE SHALL BE DESIGNED FOR THE MINIMUM DESIGN LOADS SPECIFIED IN THE BASIS OF DESIGN.
- 6. THE SUPPORTING STRUCTURE SHALL BE DESIGNED TO ACCOMMODATE THE SPECIFIED BARRIER ANCHORS.
- 7. OBTAIN BUILDING CONSENT AS REQUIRED, CALL FOR ALL SCHEDULED INSPECTIONS AND FINAL INSPECTION FOR CODE OF COMPLIANCE ON COMPLETION.
- CHECK ALL DIMENSIONS AND LEVELS ON SITE BEFORE STARTING CONSTRUCTION WORK.
 REFER ARCHITECTURAL DIMENSIONING FOR LAYOUT AND LEVELS.
 REFER ENGINEERING DIMENSIONING FOR DETAILS.
- 9. ALL COMPONENTS OF THE MODDEX BARRIER SYSTEM INCLUDING FIXINGS AND ANCHORS SHALL BE SUPPLIED BY MODDEX NZ.

BASIS OF DESIGN

1. DESIGN LIFE 50 YEARS MINIMUM

2. BUILDING OCCUPANCY B, E

3. LOADINGS AS/NZS 1170.1 : 2002 - TABLE 3.3

AS 1657 : 2013 - CL6.1

4. LIVE LOADINGS LINE 0.35 kN/m CONCENTRATED 0.6 kN

INFILL N/A

STRUCTURE

ITEM NO.	MATERIAL CAST BASE FLANGE CAST CONNECTOR 48.3 OD x 3.2 GALVANIZED CHS	GRADE
1	CAST BASE FLANGE	MALLEABLE CAST IRON
2	CAST CONNECTOR	MALLEABLE CAST IRON
3	48.3 OD x 3.2 GALVANIZED CHS	250

- 1. ALL PIPE TO CONFORM TO : AS 1074 $\,$
- 2. GALVANIZING TO : AS/NZS 4680 : 2006
- 3. REFER TO MODDEX BARRIER SYSTEM: TUFFRAIL FOR FURTHER PRODUCT SPECIFICATION DETAILS.

BARRIER CONFIGURATION OPTIONS

- 1. TOP RAIL & MID RAIL.
- 2. TOP RAIL, MID RAIL & BOTTOM RAIL.
- 3. TOP RAIL, MID RAIL & TOE-BOARD.
- 4. TOP RAIL, MID RAIL, BOTTOM RAIL & TOE-BORAD.

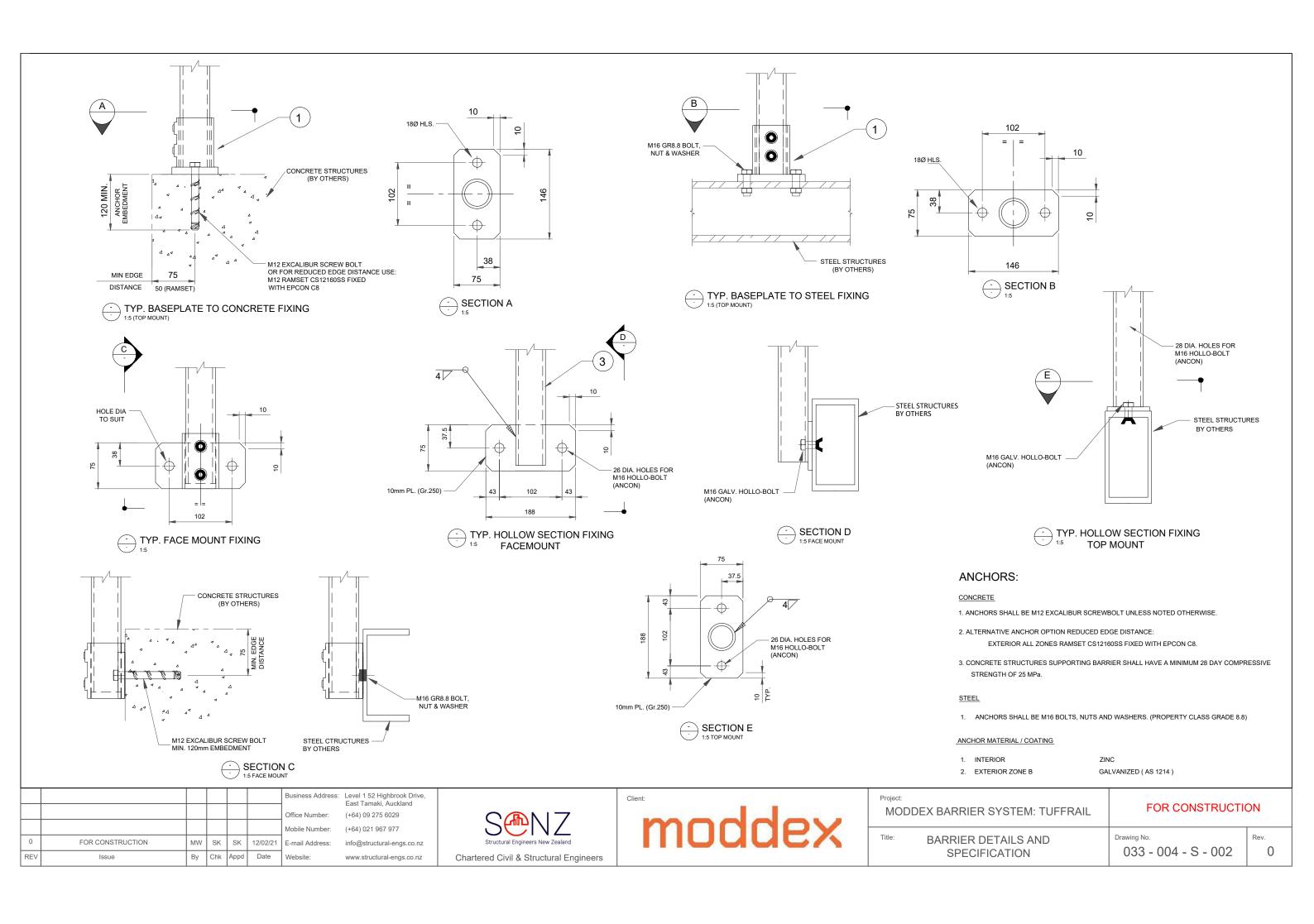
						Business Address:	Level 1 52 Highbrook Drive, East Tamaki, Auckland
						Office Number:	(+64) 09 275 6029
						Office Number.	(104) 09 273 0029
						Mobile Number:	(+64) 021 967 977
0	FOR CONSTRUCTION	MW	SK	SK	12/02/21	E-mail Address:	info@structural-engs.co.nz
REV	Issue	Ву	Chk	Appd	Date	Website:	www.structural-engs.co.nz

Structural Engineers New Zealand

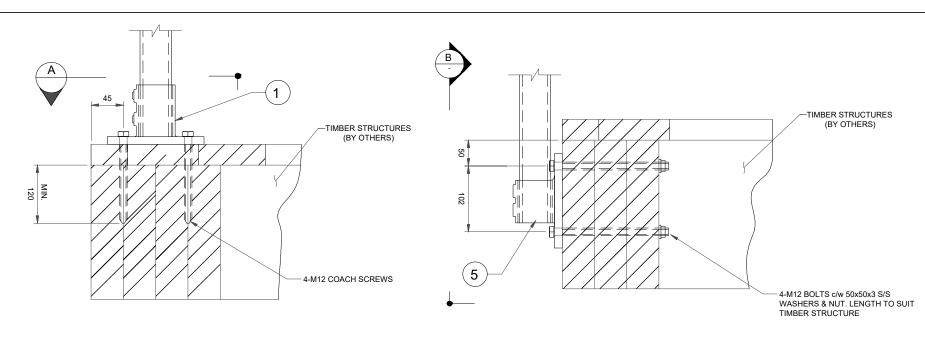
Chartered Civil & Structural Engineers

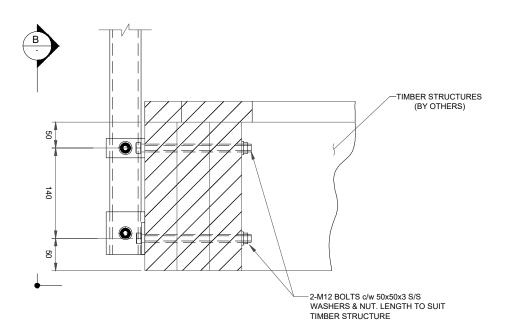


Project: MOD	DEX BARRIER SYSTEM: TUFFRAIL	FOR CONSTRUCTION			
Title:	TYPICAL HORIZONTAL BARRIER ELEVATION	Drawing No. 033 - 004 - S - 001	Rev.		



	Business Addr	dress: Level 1 52 Highbrook Drive, East Tamaki, Auckland	Client:	Project:	
		East Tamaki, Auckland	_		FOR CONSTRUCTIO
FOR CONSTRUCTION	Office Number: Mobile Number	er: (+64) 09 275 6029 Per: (+64) 021 967 977	Z aland	Title: TYPICAL HORIZONTAL	FOR CONSTRUCTION Drawing No. R

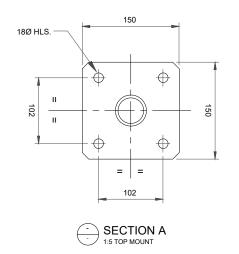


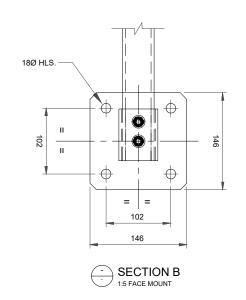


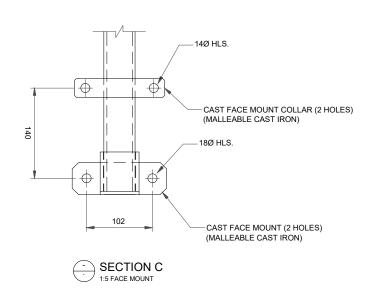
TYP. TOP MOUNT FIXING

TYP. FACE MOUNT FIXING

ALT. FACE MOUNT FIXING







ANCHORS:

TIMBER:

TIMBER STRUCTURES SUPPORTING BARRIERS SHALL BE DESIGNED IN ACCORDANCE
WITH THE NEW ZEALAND BUILDING CODE AND NZS 3604 (TIMBER FRAMED BUILDINGS)

ANCHOR MATERIAL COATING (NZS 3604 - TBL 4.1)

1. EXTERIOR, EXPOSED - TYPE 304 STAINLESS STEEL

			-	: Level 1 52 Highbrook Drive, East Tamaki, Auckland (+64) 09 275 6029	CANIZ	Client:	Project:		FOR CONSTRUCTION	ON
			Mobile Number:	(+64) 021 967 977	S®NZ		Title:	LIANIDDAIL DETAIL O AND	Drawing No.	Rev.
L	0	FOR CONSTRUCTION MW SK SK 12/02/21	E-mail Address:	info@structural-engs.co.nz	Structural Engineers New Zealand		Title.	HANDIVAIL DE FAILS AND	Drawing No.	l vev.
F	EV	Issue By Chk Appd Date	Website:	www.structural-engs.co.nz	Chartered Civil & Structural Engineers			SPECIFICATION		0