EDGESMITH



FOR RESIDENTIAL AND COMMERCIAL BALUSTRADES

PS1

MERCURY

Producer Statement Commercial and Residential Balustrades

The design is in compliance with the New Zealand Building Code (NZBC), NZS 3604:2011 section B1 and F4. Barrier loadings meet AS/NZS 1170.1:2002

Rev No. 02 | Issue Date: September 2022

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MERCURY

Balustrade System

The Mercury Balustrade Panel is made from proprietary aluminium

extrusions and incorporates Edgesmith's patented system that allows the assembled panel to rake up to 30 degrees without losing rigidity. The Mercury Commercial balustrade system differs from the fence system of the same name in that it has a 50x40mm top rail. Not only does the larger section feel better under hand, it has internal stiffening webs that add a huge amount of rigidity to the panel with little extra weight. It is a panel without compromise.



Applications

The New Zealand Building Code (AS/NZS 1170.1:2002) designates different occupancy types and specifies the load ratings that the system must be capable of withstanding. The system comprises of the panel, posts, fixings and the structure that the balustrade is being attached to. These are summarised in the table below. Refer to the drawings on pages 5-9 for more details.

Setting	Application	Occupancy Type	Design Load	Post Centers	Posts	Fixing Options	Details
Single Dwelling Residential	Timber Retaining Wall	А	0.35kN/m	2.4m	Alu 65SHS x 2.5 mm 6063- T5 Steel 65SHS x 2.5mm	Bolt or Coach Screw	Pg. 13
Compliant Panel: Mercury Residential	In-ground	А	0.35kN/m	2.4m	Alu 65SHS x 2.5 mm 6063- T5 Steel 65SHS x 2.5mm	N/A	Pg. 13
(40x40 top and bottom rails)	Timber Deck	C3	0.75kN/m	1.2m	Alu 65SHS x 2.5 mm 6063- T5 Steel 65SHS x 2.5mm	Bolt or Coach Screw	Pg. 12
Commercial, Parks, Schools and Single	Timber Retaining Wall	A, B, E, C3	0.75kN/m	2.4m	Steel 65SHS x 2.5mm	Bolt or Coach Screw	Pg. 10
or Multi Dwelling Residential	In-ground	A, B, E, C3	0.75kN/m	2.4m	Steel 65SHS x 2.5mm	N/A	Pg. 10
Compliant Panel: Mercury Commercial	Concrete	A, B, E, C3	0.75kN/m	2.4m	Steel 65SHS x 2.5mm	Screw Bolt or Chem Set Rod	Pg. 11
(50x40 top and 40x40 bottom rails)	Concrete Block Wall	A, B, E, C3	0.75kN/m	2.4m	Steel 65SHS x 2.5mm	Chem Set Rod	Pg. 11

AS/NZS 1170.1:2002 Table 3.3 Occupancy Reference





Fasteners And Corrosion Zones

New Zealand's coastal climate means that attention must be paid to the proximity to salt water when choosing what fasteners to use. The table below is a guide to where hot dip galvanised fasteners can be used. While it may seem counter intuitive that sheltered installations require stainless steel fittings even within 5km of the sea, it is because regular exposure to rainfall cleans the fasteners and prolongs their life.

Environment	Corrosion Classification	Exposed	Sheltered
Within 500m of breaking surf or 50m of calm salt water	C4	All fixings 304 Stainless Steel	All fixings 304 Stainless Steel
Within 20km of salt water on West or South Coast of South Island or within 5km of salt water elsewhere	C3	All fixings Hot dip Galvanised or 304 Stainless Steel	All fixings 304 Stainless Steel
More than 20km of salt water on West or South Coast of South Island or more than 5km of salt water elsewhere	C2	All fixings Hot dip Galvanised or 304 Stainless Steel	All fixings Hot dip Galvanised or 304 Stainless Steel

Note 1: While hot dip galvanised fixings are acceptable in inland locations it is safer to use 304 grade stainless steel. **Note 2:** The table above is only a guide. Please refer to SNZ TS 3404:2018, Figures 1 to 7 for specific corrosivity maps for further guidance.

Inspection And Maintanence Schedule

This schedule of ongoing maintenance of structural elements shall be included with the O&M manuals and provided to the Owner/Body Corporate and building managers.

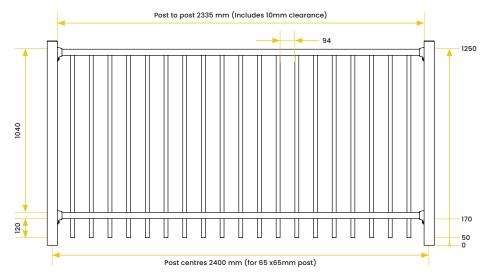
Timeframe	Inspection / Maintenance
1/2 yearly	Wash down all exposed metalwork including panels, posts and fixings
10 yearly	Check panels, posts and fixings for signs of corrosion. Repair protective coatings or replace as required.
Following seismic shaking > SLS1 event	Inspect and repair as per the 10 yearly requirements.

Full engineers report with design calculations available on request.

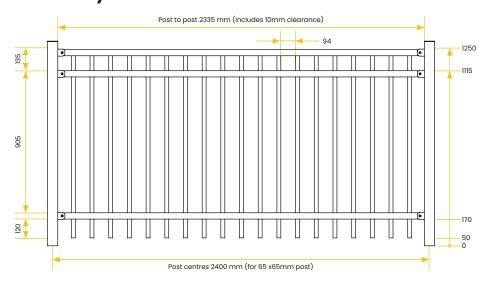




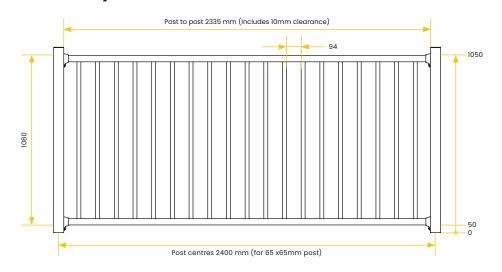
The Mercury - 1.2mH 2 Rail



The Mercury - 1.2mH 3 Rail



The Mercury - 1.0mH 2 Rail



Material:

- · Aluminium
- · Pickets SHS 25 x 1.2mm
- · Top Rail 40 x 40 Channel (50 x 40 for Balustrade)
- · Bottom Rails 40 x 40 Channel

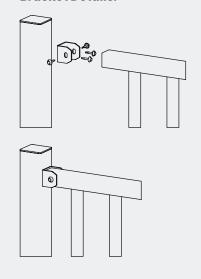
Finish:

Powder Coated

Bracket Fixings:

- · Aluminium U-Brackets
- · 12g Tek Screws or
- · 14g Pentaforce Security
- · Tek Screws (optional)

Bracket Details:

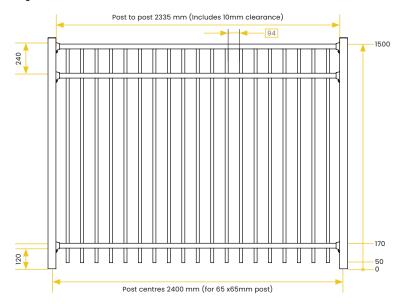




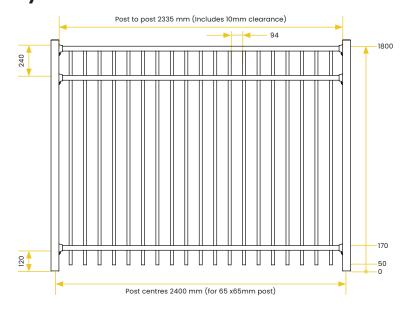




The Mercury - 1.5mH 3 Rail



The Mercury - 1.8mH 3 Rail



Material:

- · Aluminium
- · Pickets SHS 25 x 1.2mm
- · Top Rail 40 x 40 Channel (50 x 40 for Balustrade)
- · Bottom Rails 40 x 40 Channel

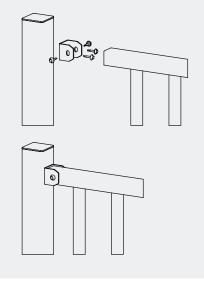
Finish:

Powder Coated

Bracket Fixings:

- · Aluminium U-Brackets
- · 12g Tek Screws or
- · 14g Pentaforce Security
- · Tek Screws (optional)

Bracket Details:



MERCURY PRODUCER STATEMENT PS1









				Building Code 0	Clause(s) B1
	PRODUCER	STATEMENT	- PS1 - D	ESIGN	
ISSUED BY:		OBD Consultants Ltd	L	***************************************	
то		(Design Firm) Edgesmith Ltd			
		(Owner/Developer)			
	Re	(Building Consent Authority	v)		
IN RESPECT OF:	The Mercury Re	esidential & Commer Description of Building Wor	cial Balustrade (System	
AT:		Throughout New 2	Zealand		•••••
Town/City:	LOT	DP	S	о	•••••
	ry the owner/developer refer				
Structural Engineering D	esign services of the follow	ving SED items: The	Mercury Reside		rcial Balustrade
System and correspondi	ng connections to concrete	masonry, timber & (Extent of Engagement)	ground using co	oncrete piles.	
Services in respect of the	e requirements of Clause(s	s) B1 (Str	ucture)	of the E	Building Code for
	specified in the attachmen		of the proposed	building work.	
	y us has been prepared in				
Compliance Docume	ints issued by the Ministry	of Business, Innovat	ion & Employme	ont VM1	Or
☐ Alternative solution a	s per the attached schedul	e		(Tomocaen mea	
The proposed building w	ork covered by this produc	er statement is desc	cribed on the dra	wings titled:	
	Schedule cation, and other document				
situations that fall strictly shown in Table 3.3 AS/N Occupancy Types A. B. induced by the barrier. C bolts/screws along with y	following design assumptions within the limitations set of USS 1170.1 for Occupancy E. & C3 (for Commercial). Tomponents are not expose	ut in clause F4 of the Type A (for Resider The balustrade supped to environments t	e building code a htial 0.35 kN/m); orting structure/r hat adversely aff	and based on m C3 (for Resider nembers are to	ninimum barrier loads ntial 0.75 kN/m), and accommodate loads
documents provided or lis persons who have under construction monitoring/of	grounds that a) the building ted in the attached schedule taken the design have the abservation:	e, will comply with the necessary competer	relevant provision ncy to do so. I a	ns of the Building Iso recommend	g Code and that b), the
	en (AC Author NO	: 1966)_am:	Eng 251875 #	Reg Arch	#
(Name of Design Pro I am a Member of: ⊠Engil	^{fessional)} neering New Zealand □NZIA	and hold the following	qualifications; BS	c Dip Eng CMEn	gNZ CPEng IntPE(NZ)
	is statement holds a current p				
3		Į.	ianatural n	So	
Approved by	Tony O'Brien (Name of Design Professional)	lo	Al	Il Rights Reserved	***************************************
ON BEHALF OF	OBD Consultants (Design Firm)	J	ob Ref: 200	21 Date	12/09/2022
Design Firm only. The total n	oly be relied upon by the Buildin naximum amount of damages p to this building work, whether in	ayable arising from this	statement and all of	ther statements pr	ovided to the Building

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







12 September 2022
Auckland Council
Private Bag 92300
Victoria Street West
Auckland 1142
To the Building Official,
Auckland Council

The Mercury Residential & Commercial Balustrade System at Throughout New Zealand (C2, C3 & C4 Zones)

OBD Reference: 20021

Compliance with Building Code Clause B2 - Durability

The purpose of this letter is to demonstrate how compliance with Clause B2 (Durability) of the Building Code for the above project. We can confirm that for specifically designed structural elements that are included within our design documentation:

Material	Means of Compliance	Details
Steel structure & fixing components	Alternative solution	Protection for mild steel has been specified in accordance with SNZ TS 3404- Durability requirements for steel structures and components and AS/NZS 2312 – Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings. This guide works on a time to first maintenance. Refer to the attached maintenance plan.

Yours sincerely,

Tony O'Brien

BSc Dip Eng CMEngNZ CPEng IntPE(NZ)

Director

For and on behalf of OBD Consultants Ltd







DESIGN DOCUMENT SCHEDULE

JOB NO: 20021

	DRAWING LIST		
SHEET NUMBER	SHEET NAME	CURRENT	REVISION DATE
The Mercury	Residential (0.35 kN/m) Balustrade		
SK-01	The Mercury 1.2mH Raking Aluminium Fence Panel	-	13.10.2020
G01	General Notes	В	13.10.2020
S01	Connection Type 1A	В	13.10.2020
502	Connection Type 1B	В	13.10.2020
S03	Connection Type 2	В	13.10.2020
504	Connection Type 3	В	13.10.2020
The Mercury	Residential (0.35 kN/m) Balustrade		
SK-02	The Mercury 1.2mH Raking Aluminium Fence Panel	-	13.10.2020
G01	General Notes	В	13.10.2020
S01	Connection Types 1A & 1B	В	13.10.2020
S02	Connection Types 2 & 3	В	13.10.2020
503	Connection Types 4A & 4B	В	13.10.2020
S04	Connection Type 5A	В	13.10.2020
S05	Connection Type 5B	В	13.10.2020
506	Connection Type 6	В	13.10.2020
S07	Connection Type 7	В	13.10.2020
The Mercury	Commercial Balustrade		
SK-03	The Mercury 1.2mH Raking Aluminium Fence Panel	-	13.10.2020
G01	General Notes	В	13.10.2020
S01	Connection Types 1A & 1B	В	13.10.2020
S02	Connection Types 2, 3 & 4	В	13.10.2020
503	Connection Type 5	В	13.10.2020
504	Connection Type 6	В	13.10.2020
S05	Connection Type 7	В	13.10.2020

Date: 12/09/2022

ву:





GENERAL NOTES

- (1) THE BALUSTRADE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECT'S AND ENGINEER'S DRAWINGS.
- (2) ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE AGAINST THE ARCHITECT'S AND ENGINEERS DRAWINGS PRIOR TO COMMENCING WORK ANY VARIATIONS OR DISCREPANCIES ARE TO BE REFERRED TO THE CONSULTANT FOR RESOLUTION.
- (3) THE EXISTING SUPPORTING STRUCTURE DETAILS ARE NOT COVERED BY THESE DRAWINGS. IT IS ASSUMED THAT THE EXISTING SUPPORT STRUCTURE CAN ACCOMMODATE THE ADDITIONAL LOADS INDUCED BY THE BARRIER. IN ADDITION, THE EXISTING STRUCTURE MUST HAVE THE REQUIRED MINIMUM PROPERTIES AS FOLLOWS: f'c = 20 MPa (FOR CONCRETE), f'm = 12 MPa (FOR MASONRY), GROUP J5 MATERIAL (FOR TIMBER).
- (4) THESE DRAWINGS ONLY COVER THE INSTALLATION/CONNECTION DETAILS OF THE MERCURY COMMERCIAL BALUSTRADE SYSTEM.
- (5) A MINIMUM OF 48 HOURS NOTICE IS REQUIRED FOR ANY CONSTRUCTION MONITORING OBSERVATIONS. A PS4 CANNOT BE PROVIDED (PRODUCER STATEMENT CONSTRUCTION REVIEW), IF THE CONSULTANT IS NOT INFORMED OF THE REQUIRED INSPECTIONS THAT THE LOCAL TERRITORIAL AUTHORITY MAY REQUIRE.
- (6) REMOVE ALL EXCESS MATERIALS AND RUBBISH FROM SITE AND REINSTATE ANY DAMAGE ON COMPLETION OF WORKS.
- (7) ALL DAMAGE TO EXISTING STRUCTURE CAUSED BY CONSTRUCTION ARE TO BE REINSTATED.
- (8) ALL WORKS ARE TO COMPLY WITH THE NEW ZEALAND BUILDING CODE (NZBC).

<u>DURABILITY - STEEL FIXINGS & COMPONENTS</u>

- (9) HOT-DIPPED GALVANIZED BOLTS/FIXINGS CAN BE USED FOR LOCATIONS THAT FALL UNDER TYPICAL ATMOSPHERIC CATEGORIES B & C SO LONG AS THE MAINTENANCE PROGRAM AS DETAILED FOR THE DESIGN IS STRICTLY ADHERED TO. REFER TO TABLE 1 & 2 BELOW.
- (10) GRADE 304 STAINLESS STEEL BOLTS/FIXINGS ARE TO BE USED FOR LOCATIONS THAT FALL UNDER TYPICAL ATMOSPHERIC CATEGORY D OR IN CATEGORY C LOCATIONS WHERE ITEMS ARE DEEMED TO BE SHELTERED AND UNABLE TO BE WASHED REGULARLY AS REQUIRED BY THE MAINTENANCE PLAN. REFER TO TABLE 1 & 2 BELOW.
- (11) FOR FIXINGS REQUIRED IN AREAS OF TYPICAL ATMOSPHERIC CATEGORIES OTHER THAN B, C & D, OR IN WET LOCATIONS WHERE STEEL WILL REMAIN WET FOR EXTENDED PERIODS OF TIME, SUCH AS CREVICES, LOW POINTS & POCKETS NOT DRAINED, THESE WILL REQUIRE SPECIFIC ENGINEERING DESIGN (SED) WHERE MORE DURABLE GRADE 316 OR HIGHER STAINLESS STEEL OR SILICON BRONZE FIXINGS MAYBE MORE SUITABLE. REFER TO TABLE 1 & 2 BELOW.
- (12) FOR FIXINGS AND COMPONENTS THAT ARE TO HAVE DIRECT CONTACT WITH PRESERVED TIMBER (PT), ESPECIALLY WHEN THE PRESERVATIVE TREATMENT USES COPPER AZOLE-BASED (Cuaz) OR ALKALINE COPPER QUATERNARY-BASED (ACQ) PRESERVATIVES AND A HIGH TIMBER MOISTURE CONTENT IS EXPECTED, THEN GRADE 304/316 STAINLESS STEEL FIXINGS ARE RECOMMENDED. IF GALVANIZED FIXINGS ARE USED WHERE MOISTURE CONTENT OF THE PRESERVED TIMBER (PT) WAS EXPECTED TO BE LOW BUT SUBSEQUENTLY FOUND TO BE HIGH THEN THEIR INSPECTION SHOULD BE CARRIED OUT REGULARLY AS PART OF THE MAINTENANCE PROGRAM THIS WOULD INVOLVE REMOVING ANY HIGH-RISK COMPONENTS SUCH BOLTS OR COACH SCREWS FIXED INTO OBVIOUS DAMP AND WET TIMBERS WHICH MAY OR MAY NOT BE CLOSE TO THE GROUND OR EVEN HIGHER THAN 600MM FROM THE GROUND. THE EMBEDDED THREAD AND SHAFT NEEDS TO BE REMOVED AND INSPECTED CLOSELY AT MINIMUM 5 YEARLY INTERVALS. IF SIGNS OF CORROSION ARE FOUND ON OVER 1%-2% OF THE SURFACE AREA THEN THE FIXING IS TO BE REPLACED WITH A STAINLESS-STEEL EQUIVALENT OR A GALVANIZED BOLT WITH ADDITIONAL SURFACE PROTECTION WHILE FIXING IS TO BE REPLACED WITH A STAINLESS-STEEL EQUIVALENT OR A GALVANIZED BOLT WITH ADDITIONAL SURFACE PROTECTION WHILE FIXING IS TO BE REPLACED WITH A STAINLESS-STEEL EQUIVALENT OR A GALVANIZED BOLT WITH ADDITIONAL SURFACE PROTECTION WHILE FIXING IS TO BE REPLACED WITH A SILICON BRONZE MAYBE REQUIRED.
- (13) PREVENT CONTACT BETWEEN ALL DISSIMILAR MATERIALS (i.e. GALVANIZED STEEL AND ALUMINIUM OR GALVANIZED STEEL AND STAINLESS STEEL) BY SEPARATING WITH NEOPRENE WASHERS OR SIMILAR APPROVED.
- (14) ALL CHEMSET CONCRETE ANCHORS ARE TO BE FIXED TO MANUFACTURER'S SPECIFICATIONS.

TABLE 1: TYPICAL ATMOSPHERIC CATEGORY

ENVIRONMENT LIMITATIONS	MACROCLIMATE CORROSION CATEGORY (SNZ TS 3404:2018 & AS/NZS 2312.1:2014)
MORE THAN 20KM TO 50KM FROM SALT WATER ON WEST & SOUTH COAST OF SOUTH ISLAND, 5KM TO 50KM FROM SALT WATER ON EAST COAST OF BOTH ISLANDS & SOUTH COASTS OF NORTH ISLAND & ALL HARBOURS OR OTHERWISE INLAND MORE THAN 50KM.	C2
WITHIN 20KM OF BREAKING SURF ALONG THE WEST & SOUTH COASTS OF SOUTH ISLAND, OR WITHIN 5KM OF SALT WATER ALONG EAST COAST OF BOTH ISLANDS, OR WITHIN 5KM OF SALT WATER WEST & SOUTH COASTS OF THE NORTH ISLAND, & ALL HARBOURS.	C3
WITHIN 500M INLAND OF BREAKING SURF, OR WITHIN 50M OF CALM SALT WATER SUCH AS HARBOUR FORSHORES. THIS AREA MAY BE EXTENDED INLAND BY PREVAILING WINDS AND LOCAL CONDITIONS.	C4
WITHIN 200M OF BREAKING SURF ON THE WEST AND SOUTH COASTS OF THE SOUTH ISLAND, OR WITHIN 100M OF BREAKING SURF ON THE WEST AND SOUTH COASTS OF THE NORTH ISLAND, OR WITHIN 50M OF BREAKING SURF ON ALL OTHER COASTS, OR WITHIN 500M OF GEOTHERMAL SOURCE OR WITHIN SPACES OF HIGH HUMIDITY OR CORROSIVE ENVIRONMENTS. CONTACT YOUR SUPPLIER/ENGINEER FOR MORE GUIDANCE.	SED C5-I, C5-M, CX/T
NOTE 1: ABOVE ENVIRONMENTS MAY BE EXTENDED INLAND BY PREVAILING WINDS & LOCAL CONDITIONS.	

REFER TO SNZ TS 3404:2018 FIGURES 1 TO 7 FOR SPECIFIC CORROSINTY MAPS FOR FURTHER GUIDANCE. FOR CONFIRMATION OF A SITE-SPECIFIC ATMOSPHERIC CORROSINTY CATEGORY (FOR EXAMPLE, FOR SITES THAT ARE SHELTERED FROM MARINE INFLUENCE BY THE LOCAL TOPOGRAPHY), THEN SITE-SPECIFIC TESTING CAN BE CARRIED OUT AS DESCRIBED IN HERA REPORT R4-133.

TABLE 2: DURABILITY PROVISION

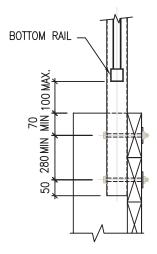
TYPICAL ATMOSPHERIC CATEGORY	C4	C3	C2	ALL OTHERS
EXPOSED (NOTE 2)	ALL FIXINGS TYPE 304SS	HOT DIPPED GALVANIZED STEEL	HOT DIPPED GALVANIZED STEEL	SED
SHELTERED (NOTE 2)	ALL FIXINGS TYPE 304SS	ALL FIXINGS TYPE 304SS	HOT DIPPED GALVANIZED STEEL	SED

NOTE 2: REFER TO SNZ TS 3404:2018 FOR DEFINITION OF "SHELTERED" & "EXPOSED". WHERE ITEMS ARE IN SHELTERED LOCATIONS THESE CAN BE TREATED AS EXPOSED IF REGULAR WASHING DOWN IS CARRIED OUT AS PART OF THE REGULAR MAINTENANCE PROGRAM.





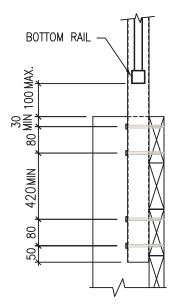
Side Fix to Timber Retaining Wall - Commercial



Post: PBS-2.0-2CTR

Option 1 - Bolt:

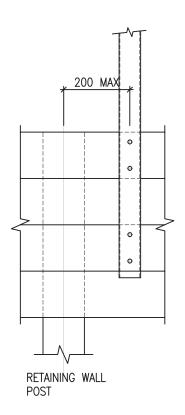
2xM12 with 50x50x4mm sq washer on timber side. (drawing SK-03 S04)



Post: PBS-2.2-4CTR

Option 2 - Coach Screws:

4xM12, min 50mm penetration into timber. (drawing SK-03 S03)

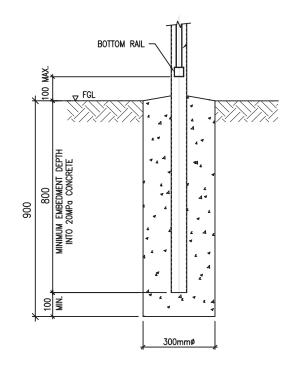


Concreted in ground - Commercial

(drawings SK-03 S05 and SK-02 S07)

Note:

Post footing to be embedded in good ground with min 100kPa allowable bearing as defined by NZS 3604:2001



Post Details for Balustrade - Commercial

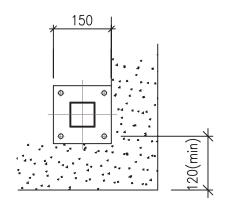
Zone Class	Loading	Panels	Posts	Fasteners
B, E, C3 School, Park, Multi- Dwelling	0.75kN/m	Mercury Commercial, Chief MK2	65shs x 2.5mm Steel Post centers 2.4m	<500m from sea - 304SS, >500m from sea - 304SS or HDG
Residential, Commercial				



MERCURY PRODUCER STATEMENT PS1

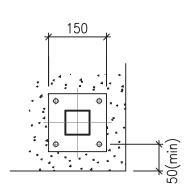


Top Fix to Concrete



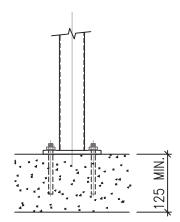
Option 1 - Screw Bolts:

4xM12 Ramset Wercs Ankascrew or equlivalent, 90mm min embedment into 20MPa concrete. (drawings SK-02 S01 and SK-03 S01)



Option 2 - Chemset Rod:

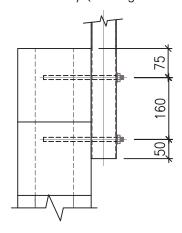
4xM10 threaded rod with epcon C8 or equlivalent, 90mm min into 20MPa concrete. (drawings SK-02 S01 and SK-03 S01)



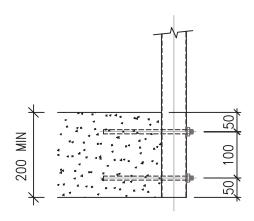
Side Fix to Block Wall

Chemset Rod:

2xM12 threaded rod with epcon C8 or equlivalent, 100mm min into masonry. (drawing SK-03 S02)



Side Fix to Concrete



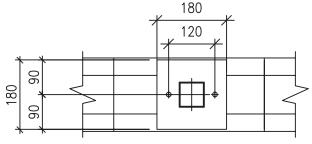
Chemset Rod:

2xM12 threaded rod with epcon C8 or equlivalent, 110mm min into 20MPa concrete. (drawing SK-03 S02)

Top Fix to Block Wall

Chemset Rod:

2xM12 threaded rod with epcon C8 or equlivalent, 100mm min into masonry. (drawing SK-03 S02)



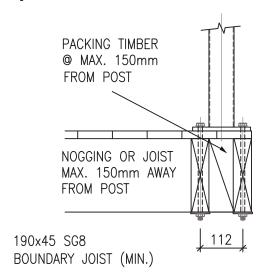
Post Details for Balustrade - Commercial and Residential

Zone Class	Loading	Panels	Posts	Fasteners
B, E, C3	0.75kN/m	Mercury Commercial,	65shs x 2.5mm Steel	<500m from sea - 304SS,
Parks, Schools, Multi- Dwelling Residential, Commercial		Chief-MK2	10mm thick flange Post centers 2.4m	>500m from sea - 304SS or HDG





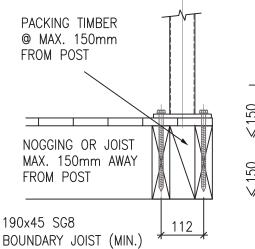
Top Fix to Timber Deck - Residential

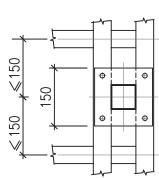


Post: PF1.3x65x2.5 (Steel) or PAF1.3x65x2.5-PC (Alu)

Option 1 - Bolts:

4xM10 with 50x50x4mm sq washer on timber side. (drawing SK-02 S03)





Post: PF1.3x65x2.5 (Steel) or PAF1.3x65x2.5-PC (Alu)

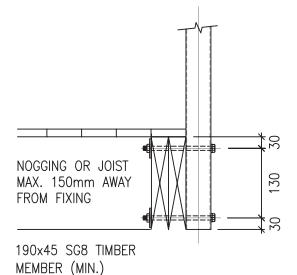
Option 2 - Coach Screws:

4xM12, min 150mm penetration into timber. (drawing SK-02 S03)

Side Fix to Timber Deck - Residential

Bolts:

2xM12 with 50x50x4mm sq washer on timber side. (drawing SK-02 S02)



Deck Designed by Others

Post Details for Balustrade - Residential

Zone Class	Loading	Panels	Posts	Fasteners
A Single Dwelling	0.75kN/m	Mercury Commercial or Residential	65shs x 2.5mm Steel or 65shs x 2.5 mm 6063-T5, 150x10mm Flange	<500m from sea - 304SS, >500m from sea - 304SS or HDG
Residential			Post centers 2.4m	



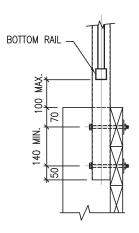




Side Fix to Timber Retaining Wall - Residential



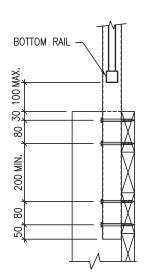
SIDE



Post: PBS-1.8-2RTR (Steel) or PBA-1.8-2RTR (Alu)

Option 1 - Bolts:

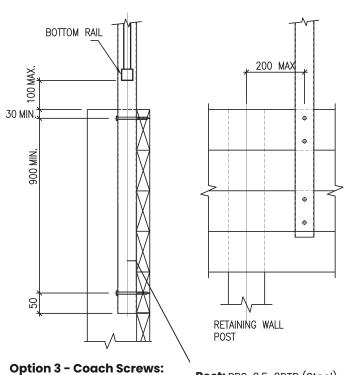
2xM12 with 50x50x4mm sq washer on timber side. (drawings SK-01 S03 and SK-02 S06)



Post: PBS-2.0-4RTR (Steel) or PBA-2.0-4RTR (Alu)

Option 2 - Coach Screws:

4xM12, min 50mm penetration into timber. (drawings SK-01 S02 and SK-02 S05)



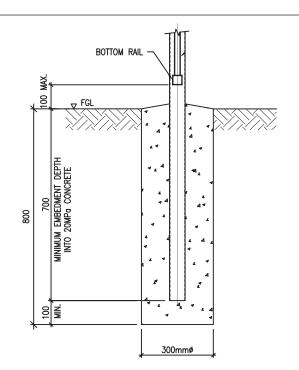
2xM12, min 50mm penetration into timber. (drawing SK-01 S01) Post: PBS-2.5-2RTR (Steel) or PBA-2.5-2RTR (Alu)

Concreted in ground - Residential

(drawing SK-01 S04)

Note:

Post footing to be embedded in good ground with min 100kPa allowable bearing as defined by NZS 3604:2001



Post Details for Balustrade - Residential

<u></u>				
Zone Class	Loading	Panels	Posts	Fasteners
Α	0.35kN/m	,	65shs x 2.5mm Steel,	<500m from sea - 304SS,
Single Dwelling		or Residential	65shs x 2.5 mm 6063-T5 Alu	>500m from sea - 304SS or HDG
Residential			Post centers 2.4m	





North Auckland Branch

20 Anvil Road, Silverdale Auckland 0932

South Auckland Branch

20 Kerwyn Avenue, East Tamaki Auckland 2013

Christchurch Branch

4 Anchorage Road, Hornby, Christchurch 8042

Contact

T: 09 427 4980 **E:** crew@edgesmith.co.nz

Monday - Friday: 8.00am - 4.30pm

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