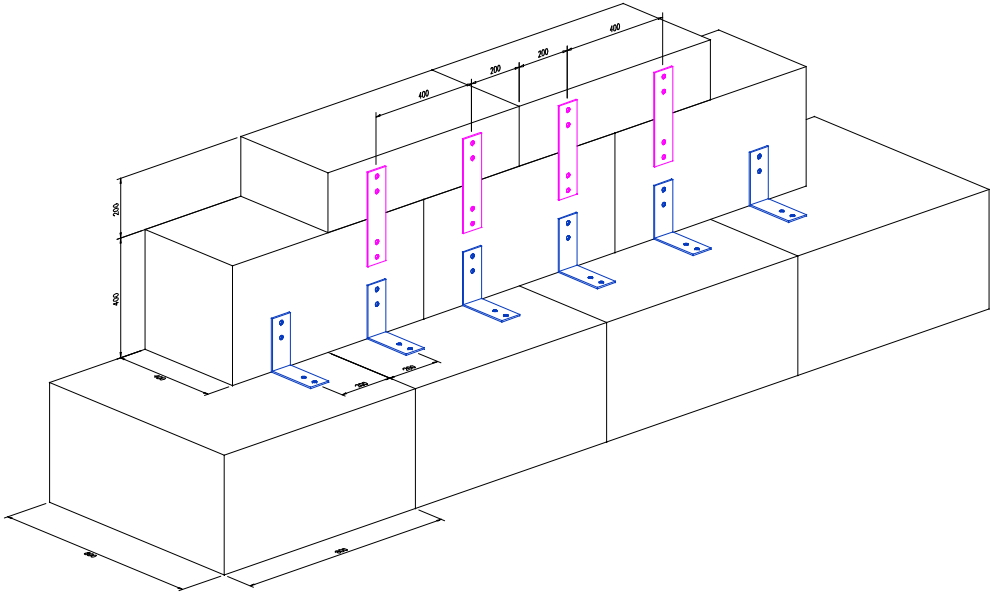
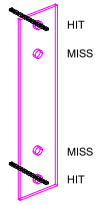


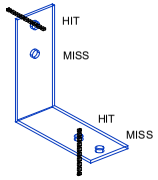
STONEBLOC CLIPS FOR BALUSTRADE RELYING ON WALL FOR STABILITY (SEE NOTE 16).



I-CLIP

HIT DENOTES INSTALL M12 STUD ANCHOR A4 316SS T12080SSA AS PER INSTALLATION DATA METHOD

MISS DENOTES NO ANCHOR BOLT IS REQUIRED



L-CLIP

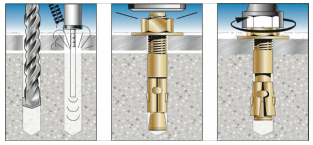
INSTALLATION DATA

Trubolt Stud Anchor A4 316 SS T12080SSA

Product Code: T12080SSA
Effective Embedment: 50mm
ETA-04/0010 issued 2017/01/24

Effective Embedment :	50mm
Minimum thickness of base material :	100mm
Hole diameter in the base material :	12mm
Hole depth in base material material :	74mm
Installation torque :	50.00 Nm
Base plate thickness :	5mm
Profile family (section type) :	
Clearance Diameter :	14mm

INSTALLATION METHOD



Installation

1. Drill or core a hole to the recommended diameter (same as the TruBolt™) and depth using the fixture as a template. Clean the hole thoroughly with a hole cleaning brush. Remove the debris with a hand pump, compressed air, or vacuum.
2. Insert the anchor through the fixture and drive with a hammer until the washer contacts the fixture.
3. Tighten the nut with a torque wrench to the specified assembly torque.

PRODUCT RANGE This catalogue details the Stainless Steel range of BOWMAC products. Refer to separate brochure for the Hot Dip Galvanised range of BOWMAC products.

STANDARDS Applicable Timber Standards are NZS 3603 and NZS 3604:2011 - Section 4 Durability.

DESIGN LOADING These can be derived from the characteristic strength of bolts in timber, using the relevant design code NZS 3603.

DURABILITY The selection of BOWMAC Stainless Steel brackets should be made in conjunction with the MiTek Durability Product Selection and Durability Flow Charts in Section 4 of the current MiTek Structural Fixings On-Site Guide. These selection charts are an alternative solution to Table 4.1 NZS 3604:2011.

The recommendation and use of BOWMAC Stainless Steel brackets prescribed in these selection charts is based on supporting advice from Les Boulton & Associates - Materials and Corrosion Consultants in their report # 99267.

When used, handled and installed in accordance with the above conditions, BOWMAC Stainless Steel brackets meet NZBC Clause B2 for 50 years durability performance requirements.

Depending on specific weather exposure and salt spray environments, there may be evidence of 'tea staining' on the surface of Stainless Steel brackets.

Tea staining is a visual issue only and DOES NOT affect the structural integrity of the bracket. To minimise this occurrence, it is suggested that a regular washing / maintenance cycle be implemented using warm water with a mild detergent and a cold fresh water rinse.

It is NOT advisable for any BOWMAC Stainless Steel products to be painted over as this may affect the natural anti-corrosive characteristics of stainless steel.

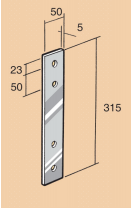
CUSTOM PRODUCTS BOWMAC also manufactures custom-made products to suit specific requirements, using Hot Dip Galvanised Steel and 304 Stainless Steel. A lead time by discussion is required to allow for manufacture.

AVAILABILITY Stainless Steel BOWMAC Brackets can be purchased from Builders Supply Merchants or indented through the merchant from our Auckland and Christchurch warehouses.

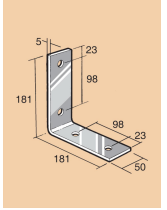
END USE The purchaser is responsible for checking the suitability of any component for its intended use.

STRAPS

BS85



BS55



STONEBLOC CLIPS FOR BALUSTRADE

REV.	DESCRIPTION	DATE	BY
A	PRELIMINARY – FOR CLIENTS COMMENT	20/04	RP

ENVIROCON
667B Great South Road, Penrose
Auckland
Ph: 0800 468 375
Email: contact@envirocon.co.nz

Resilient STRUCTURE LTD.
Tauranga, New Zealand
Ph: +64 2 2407 8030
Email: mail@resilientstructurenz.com

THIRD ANGLE PROJECTION UNLESS NOTED

+ INDICATES HOLES ON P.S.
◆ INDICATES MARK END

RONS DRAUGHTING SERVICES
Rotorua, New Zealand
Ph: 0223230816 Email: ronsdraughting@gmail.com

Copyright: Rons Draughting Services

DRAWN	RP	01/02/2021	
CHECKED	CZH	01/02/2021	
APPROVED			
SCALE	N.T.S.	SHEET SIZE	A1

PROJECT: STONEBLOC LOW-HEIGHT RETAINING WALL
CONCEPT NON SITE-SPECIFIC DESIGN FOR USE WITHIN LIMITS (SEE NOTES)
SITES WITHIN AUCKLAND & NORTHLAND REGION ONLY
TITLE: TYPICAL DETAILS
PROJECT NO. 1005-01
SHEET No. 005
REV A