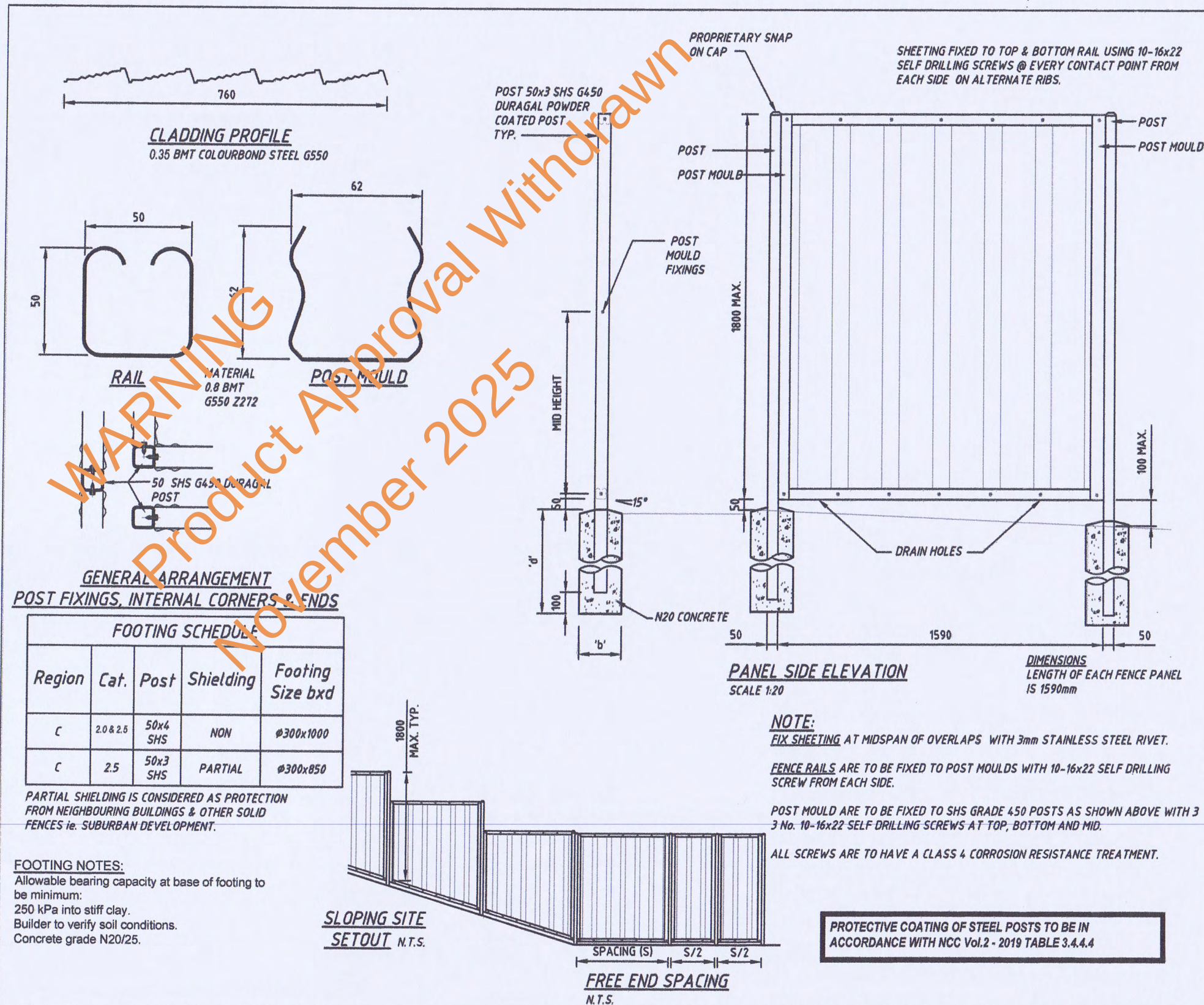


NORTHERN TERRITORY DEEMED TO COMPLY MANUAL - National Construction Code Volume 2 (Section 3.0.4 Structural resistance of materials in high wind areas)

This product has been determined to satisfy NCC Performance Requirement P2.1.1 for structural stability and resistance.



Product Name

COLORMAX BOUNDARY FENCING SYSTEM

Product Description

BOUNDARY FENCING FOR CYCLONIC WIND REGIONS

Manufacturer's Name

DUNN AND FARRUGIA Pty. Ltd.

44 Preston Street, Penrith, NSW. ph 02 4731 6974

Design Criteria

The Dunn & Farrugia 'Colormax' system has been engineered to conform with design performance criteria post & foundation dimensions are based on design for wind pressure determined in accordance with the following criteria from

AS/NZ1170.2:2011 have been used: Region 'C', Terrain cat 2.0 & 2.5

1. Importance level 1. Annual probability of exceedance 1:200.

2. $V_{200} = 61 \text{ m/s}$, $F_c = 1.05$, $V_R = 64 \text{ m/s}$

3. $M_s = 0.9$ for partial shielding

1.0 for no shielding

$M_t = 1.0$

4. $M_z \text{ cat} = 0.91$ for TC 2.0

0.87 for TC 2.5

5. $M_d = 0.95$

Limitations

- This DTC sheet is for fence applications only.
- Minimum base metal thickness of fence cladding is 0.35mm
- Soil assumed to have minimum bearing capacity of 250kPa at base of footings.
- For free ends of fence use half spacing (s) for a distance of $2 \times \text{Height (2H)}$.

Standards used in Design

- AS 4055 - 2012 Wind loads for housing (for the definition of shielding)
- AS/NZS 1170.0 - 2002 Structural design actions
- AS/NZS 1170.2 - 2011 Wind actions
- AS/NZS 4600 - 2018 Cold-formed steel structures
- AS 3600 - 2018 Concrete Structures

Accepted for Inclusion

Rev. 'F'

DTCM ref: M/736

Chairman's Signature:

Chairman's Name: Paul Nowland

Date of Approval: 30/11/2020 Expiry Date: 30/11/2025

1. Colormax Boundary Fence Panel have been tested by Heiner Structural Engineers Pty Ltd and conform to the strength requirements of AS 4040.2.
2. Conform to the design criteria determined in accordance with AS/NZS 1170.2 - 2011 Wind Actions.
3. HSEC Test Report for Colormax Boundary Fence Panel, report reference HSEC-E12462.1-WL.RP dated 09.03.2015.

**Design Engineers Certification
HB Civil & Structural Engineers

Name: Nick Babaniaris

Vic. Reg. Number: EC-1204

Date: 16-11-2020

Signature: [Signature]

**registered as a structural engineer in Australia

**Certifying Engineers Certification
Asset Services Pty Ltd

Name: Michael Hatton (nominee)

NT Reg. Number: 152941ES

Date: 15/11/2020

Signature: [Signature]