

Our ref:Timbeck

24th January 2011

Mr Graeme Ferrow
Managing Director
Timbeck Cedar Products
PO Box 1127
Burpengary DC
QLD 4504



Dear Sir

RE: Timbeck Western Red Cedar Cladding Fixings

We hereby certify that the fixings specified on the attached sheet, "Recommendations for Concealed Nail Fixing Timbeck Western Red Cedar Wall Cladding", satisfy the intent of the structural requirements of the Building Code of Australia for the negative external wall pressures applicable to the Wind Classifications nominated.

In preparation of these fixing recommendations, reliance has been placed upon the following documents:-

- AS 4055 – Wind Loads on Housing
- AS 1720.1 – Timber Structures, Part 1: Design Methods, and
- Deck Nail Withdrawal Tests – FWPRDC PN 02.1209

The recommendations are based upon an assumed maximum external wall pressure co-efficient, $C_{pe} = -0.65$ and a local pressure factor (within 1200mm of corners) of 2.0 and where the cladding and internal lining form a closed wall cavity not vented to the roof or sub-floor space.

Yours faithfully

Colin MacKenzie
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Recommendations for Concealed Nail Fixing Timbeck Western Red Cedar Wall Cladding

Except where specifically noted otherwise, the following nail fixing recommendations are applicable to all softwood (pine) with a joint rating of JD5 or better and all hardwood and cypress wall frames. The recommendations account for both nail withdrawal and head 'pull through'. The recommendations only apply where the cladding is fixed direct to wall frames forming an enclosed wall cavity sealed with internal lining. For other wall systems refer to a registered professional engineer.

The nail sizes indicated in the Table below are commonly available hot dipped or mechanically galvanised coil gun nails, as follows:-

A = 45 x 2.5 galvanised flat head (plain or ring shank, head dia. approximately 5.5mm)

B = 50 x 2.5 galvanised flat head (plain or ring shank, head dia. approximately 5.5mm)

Data is applicable to both 15mm and 18mm Timbeck Western Red Cedar Cladding Profiles.

Non-Cyclonic Areas

Wind Classification	General Wall Area Studs at			Within 1200mm of corners Studs at		
	300	450	600	300	450	600
Cover width 78mm						
N1/N2	A	A	A	A	A	A
N3	A	A	A	A	A	A
N4	A	A	A	A	A	A
Cover width 127mm						
N1/N2	A	A	A	A	A	A
N3	A	A	A	A	A	A
N4	A	A	A	A	B	B ⁽¹⁾
Cover width 176mm						
N1/N2	A	A	A	A	A	A
N3	A	A	A	A	B	B ⁽¹⁾
N4	A	A	B	B	B ⁽¹⁾	NS ⁽²⁾

NOTE: 1. Minimum softwood Joint Group JD4.

2. Obtain alternative fixing recommendations from a registered professional engineer.

Cyclonic Areas

Wind Classification	General Wall Area Studs at			Within 1200mm of corners Studs at		
	300	450	600	300	450	600
Cover width 78mm						
C1	A	A	A	A	A	A
C2	A	A	A	A	A	A
C3	A	A	A	A	A	B ⁽¹⁾
Cover width 127mm						
C1	A	A	A	A	A	A
C2	A	A	A	A	B	B ⁽¹⁾
C3	A	A	B	B	B ⁽¹⁾	NS ⁽²⁾
Cover width 176mm						
C1	A	A	A	A	B	B ⁽¹⁾
C2	A	A	B	B	B ⁽¹⁾	NS ⁽²⁾
C3	A	B	B ⁽¹⁾	B ⁽¹⁾	NS ⁽²⁾	NS ⁽²⁾

NOTE: 1. Minimum softwood Joint Group JD4.

2. Obtain alternative fixing recommendations from a registered professional engineer.