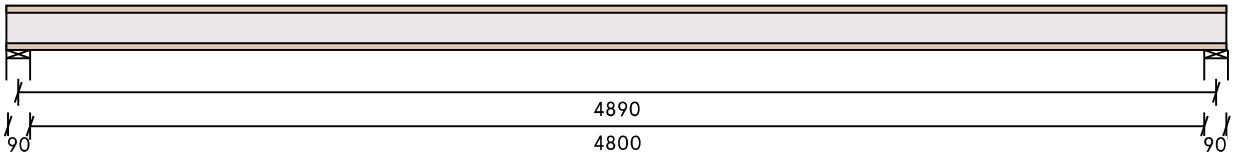
hyne design

Certification Report

Job Number:
Job Description:
Run by: Jason Wright
Licence: Industry Professional
Training: HD-85347641149-19/12/24
Company: Pacific Rim Industries
Phone: 0435262852



Section FJ1, Floor Joist Design
Use 300x45 ProJOISTMax

Note: Generic Product: Confirm/Validate design results with the product supplier

Note: I-Beam Product: Confirm/Validate installation details with the product supplier

Min. end bearing length = 35mm unless otherwise noted.

DIMENSIONAL DETAILS:

Span type is Single Span for a design length of 4890 mm
Theoretical spans are calculated as centrelines of supports, using the entered support widths and distances between supports.
Floor Joist spacing is 450mm centres

DESIGN DETAILS:

This member is considered a Category 1 element in AS1720.1-2010

Flooring material of Particle Board (30)
Floor strength live load of 1.5 kPa
Floor deflection live load of 1.5 kPa
Wind Classification for this project is N1
Temperature Factor (K6) = 1.00
Snow Load Classification for this project is NoSnow (Snow load not required)

Ceiling material of 10mm P'Board (12)
Permanent Live Load of 0.5 kPa
Concentrated Live Load of 1.8 kN
Design ultimate wind pressure is 0.000 kPa
Design serviceability wind pressure is 0.000kPa

TIMBER DESIGN DETAILS (300x45 ProJOISTMax)

K1 factors in accordance with AS1720.1-2010
Durability Class = 4
Creep Factor (j2) = 2
Creep Factor (j3) = 1 for tension members
K7 bearing factor for internal supports as per AS1720.1-2010
K9 Sharing factor in accordance with AS1720.1-2010
Capacity Factor = 0.95

K4 value taken as 1.00
Minimum Treatment Level None
Minimum Allowed j2 = 1.5
EMC (average moisture content) = 15%
Structure in a high temperature area = NO (k6 = 1.0)
K11 Size Factor if applicable built into section property data
For full loading data, see the engineering report

CERTIFICATION:

I hereby certify the I have carried out this design correctly, and that the input data for the design is correct. The above nominated section has only been designed for the loading and dimensional data stated above as having been used to generate this report. I consider that I have adequate experience and training to calculate and input the required data for this design in the Hyne Design Software. I am also familiar with the following codes, and the requirements of these codes and their application to the project I am designing:

Design Codes:

AS/NZS 1170	Part 0: Structural design actions - General Principles 2002
AS/NZS 1170	Part 1: Structural design actions - Permanent, imposed and other actions 2002
AS/NZS 1170	Part 2: Structural design actions - Wind actions - 2021
AS/NZS 1170	Part 3: Structural design actions - Snow and Ice Actions - 2003
AS 1720.1	Timber Structures - Part 1: Design - 2010
AS 4055	Wind Loads for Housing - 2021

The design actions, methods, assumptions and other criteria used in this structural design are precedent upon AS/NZS 1170.0 - 2002, in preference to other Standards listed above. Deflection limits recommended in AS1720.3-2016 have been adopted where relevant.

The design complies with section A2G2 (NCC 2022) Volume Two. The compliance document is located at Hyne & Son Pty Ltd main office.

EXCLUSION OF LIABILITY:

Hyne & Son Pty Ltd gives no warranties in relation to the use of the above mentioned section design and neither Hyne & Son Pty Ltd nor Bligh Tanner Pty Ltd will accept any liability for loss or damage, either direct or consequential, arising from the use of the above nominated section in an application not consistent with the input data used to generate this report or that requires additional data beyond the scope of the Hyne Design Software.

Checked and certified by:

.....

Pacific Rim Industries

Dated: .....