

# BUILDING AUTHORITY FLOOR JOIST CERTIFICATION

**Trusstech SA Pty Ltd**

JOB : TT09727

16 High St, Dry Creek, SA 5094 PH 08 8260 6006 FAX 08 8262 5002 A.C.N.ABN:40 131 922 140

Customer : **D'ANDREA**

Site Address : **541 ANZAC HWY  
GLENELG EAST SA 5045 AUS**  
Reference : **DWELLING 1**

This is to certify that the prefabricated timber floor joists supplied to the above project were manufactured using MULTINAIL metal connectors and detailed using MULTINAIL computer joist design programs in accordance with the Building Code of Australia.

The floor joist design and detailing assumes the supporting structure is stable within its own right before the installation of the floor joists.

The specifications used in the design of the joists were as follows:

Timber :	<b>Dry Swd (can include KD Hwd)</b>	Flooring :	<b>Particle (15.4kg/m<sup>2</sup>)</b>
Spacing :	<b>600</b>	TC Restraints :	<b>300</b>
Wind :	<b>N1</b>	Ceiling Material:	<b>Plaster 10mm Supa Span (8.2 kg/m<sup>2</sup>)</b>
Structure:	<b>House</b>	Ceiling Fixing:	<b>Metal direct @ 600c</b>
Floor Application :	<b>General Areas</b>	Std Chords :	<b>35 TC / 35 BC</b>
Treatment :	<b>H0 - Individual members may be treated different.</b>	Live Load: 1.5 kPa	Point Load: 1.8 kN

All designed joists and pre-cut members utilize the following Australian standards:

AS/NZS 1170.0-2002 Structural design actions Part 0: General Principles  
AS/NZS 1170.1-2002 Structural design actions Part 1: Permanent, imposed and other actions  
AS/NZS 1170.2-2011 Structural design actions Part 2: Wind actions  
AS/NZS 1170.3-2003 Structural design actions Part 3: Snow and Ice  
AS 1720.1-1997 Timber Structures Part1 : Design Methods  
AS 1720.3-2016 Timber Structures Part3 : Design criteria for timber-framed residential buildings  
AS 4055-2012 Wind Loads for Housing  
AS 1649-2001 Determination of basic working loads for metal fasteners for timber  
AS 4100-1998 Steel Structures Code  
AS 4600-2005 Cold-formed Steel Structures Code

Special Note: Special attention must be given to floor trusses that have a 35mm MGP10 as a top chord.

Due to the design processes and analysis for the design of floor trusses with 35mm MGP10 Top Chords it is essential that the flooring material as specified in the design criteria for this job is securely fixed (according to the manufacture's recommendations, instructions and guidelines) as the flooring material and top chord act together for the design to resist the loads applied.

In conjunction with Multinail Australia's recommendations, all local building authority requirements and any other supplied details must be followed.

Floor joist designs assumes strongbacks are placed and fixed according to Multinail Australia's recommendations.

SIGNATURE: 

NAME : **MATT OPIE**

POSITION : **DETAILER**

DATE : **28/05/2018**

For detailed load information refer to the engineering output.