

# TECHNICAL NOTE

## 18mm(284.3-33.5/120.0-19.0) CD plywood supply

JANUARY 2025

**PRODUCT NAME:** 18mm(284.3-33.5/120.0-19.0) CD Structural Plywood  
(Manufactured by CMPC)

### INTRODUCTION:

This Technical Note details the product information for 18mm CD F11 plywood range manufactured by CMPC Wood Products and sold by CHH Ply. The product is manufactured from Chilean grown Radiata Pine and manufactured to the requirements of AS/NZS 2269, Plywood Structural. This plywood has been manufactured under a 3<sup>rd</sup> Party Quality Control program.

### PRODUCT IDENTIFICATION:

In accordance with AS/NZS 2269, CMPC 18mm Structural Plywood sheets have the following information marked on the back:

- Manufacturers name: e.g. CMPC
- Face grade, back grade: eg. CD
- Intended application: e.g. STRUCTURAL
- Nominal Thickness and the values of second moment of area (I) and section modulus (Z) eg. 18 (284.5-33.5 /120.0-19.0)
- Glue bond: e.g. A BOND
- Formaldehyde emission class: E0 for A Bond Ecoply
- Australasian Standard: e.g. AS/NZS 2269
- Treatment Standard (if applicable): e.g. AS/NZS 1604.3:2012
- Stress grade: e.g. F8/F5
- Distribution Chanel: e.g. Distributed by CHH Ply

Note: Additional information relating to certification in other jurisdictions may also be evident on sheets

### SPECIFICATION OF CMPC Chilean MANUFACTURED 18mm CD SQUARE EDGE:

CMPC Plywood is branded in accordance with AS/NZS 2269, and as such identifies the Stress grade (e.g. F8/F5) and the relative structural properties based on veneer layup/construction (284.5-33.5 /120.0-19). The construction of plywood products differ across manufacturers and should be checked against any specific design requirements. These structural properties meet or exceed those of 17-24-7 F8/F5 plywood also supplied by CHH Ply. As such the 18mm CMPC Plywood distributed by CHH Plywood is:

- Suitable for specification in accordance with Ecoply Span Tables where 17mm (or less) Ecoply has been specified in Tables 15a, 15b or 15c of the Ecoply Specification and Installation Guide
- For alternate flooring applications refer flooring span tables below



## SECTION PROPERTIES:

**Table 1: Section Properties of 18(284.5-33.5 /120.0-19) CMPC Plywood distributed by CHH Ply**

		Section properties per mm width			
		Parallel to the face grain		Perpendicular to the face grain	
Nominal plywood thickness <sup>1</sup> (mm)	Mass (kg/m <sup>2</sup> )	Moment of Inertia I (mm <sup>4</sup> )	Section Modulus Z (mm <sup>3</sup> )	Moment of Inertia I (mm <sup>4</sup> )	Section Modulus Z (mm <sup>3</sup> )
18	9.4	284.5	33.5	120.0	19.0

**Table 2: Nominal Strength Properties of 18(284.5-33.5 /120.0-19) CMPC Plywood distributed by CHH Ply**

Nominal plywood thickness <sup>1</sup> (mm)	Stress Grade	Nominal Strengths (Limit States) per mm width			
		Parallel to the face grain		Perpendicular to the face grain	
		Bending Stiffness EI (1000 Nmm <sup>2</sup> )	Bending Moment f <sub>pb</sub> Z (Nmm)	Bending Stiffness EI (1000 Nmm <sup>2</sup> )	Bending Moment f <sub>pb</sub> Z (Nmm)
18	F8/F5	2589.0	837.5	828.0	266.0

1. Actual thickness of CMPC Plywood distributed by CHH Plywood sheets manufactured to thickness tolerances stated in AS/NZS 2269

## FLOORING SPAN TABLES:

**Table 3: 18(284.5-33.5 /120.0-19) F8/F5 CMPC Plywood Square Edge Floor Framing Spacings**

Application	Maximum Frame Centres (mm) with Face Grain Across Framing
1. Domestic flooring 2kPa - 1.8kN	460
2. Institutional and public assembly up to 4kPa - 2.7kN	360
3. Institutional and crowd assembly up to 5kPa - 3.6kN	300

## INSTALLATION:

The CMPC 18mm Plywood distributed by CHH Plywood can be installed in accordance with the ECOPLY® SPECIFICATION & INSTALLATION GUIDE as appropriate. Where the Structural Plywood products form part of a Specific Engineering Design (SED) solution refer to the structural engineer for further details.

## REFERENCES:

- ECOPLY® SPECIFICATION & INSTALLATION GUIDE
- AS/NZS 2269:0:2012 "Plywood Structural"
- NZS 3604:2011 "Timber-framed buildings"

## LIMITATIONS:

The information contained in this document is current as at January 2025 and is based on data available to CHH Plywood at the time of going to print. CHH Plywood reserves the right to change the information contained in this document without prior notice. It is important that you visit [www.chhply.co.nz](http://www.chhply.co.nz) or call 0800 326 759 to confirm that you have the most up to date information available.

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