

# TECHNICAL NOTE

## 21-24-7 & 25-24-9 F8 plywood supply

June 2025

**PRODUCT NAME:** 21-24-7 & 25-24-9 F8 Structural Plywood (Manufactured by Guararapes)

### INTRODUCTION:

This Technical Note details the product information for both 21-24-7 and 25-24-9 F8/F8 plywood manufactured by Guararapes and distributed by CHH Plywood. These products are manufactured under a 3<sup>rd</sup> Party Quality Control program to the requirements of AS/NZS 2269, Plywood Structural.

Whilst the product is manufactured to the requirements of AS/NZS 2269, Plywood Structural, this product, in some cases, may have different veneer layup/construction to our standard Ecoply range. Further this product cannot be used in projects subject to the application of our New Zealand based Environmental Product Declarations.

### PRODUCT IDENTIFICATION:

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

- Brand name: e.g. Guaraply
- Face grade, back grade: eg. CD
- Intended application: e.g. STRUCTURAL
- The panel construction code eg. 21-24-7 and the values of second moment of area (I) and section modulus (Z) parallel to the grain eg. I = 483 Z = 45.1
- Glue bond: e.g. A BOND
- Formaldehyde emission class: E0 for A Bond
- Australasian Standard: e.g. AS/NZS 2269
- Treatment Standard (if applicable): e.g. AS/NZS 1604.3:2012
- Stress grade: e.g. F8 (or F8/F8)
- Distributed by CHH Ply chh.com

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

### SPECIFICATION OF Guaraply 21-24-7 and 25-24-9 SQUARE EDGE:

21 and 25mm Guaraply, distributed by CHH Plywood, is branded in accordance with AS/NZS 2269, and as such identifies the Stress grade (e.g. F8) and the relative veneer layup/construction (e.g. 21-24-7). The construction of plywood products differ across manufacturers and should be checked against any specific design requirements.

#### 21mm F8 CD and DD Square Edge

- 21-24-7, F8/F8 – refer Tables 1 & 2 for Structural Properties
- Refer Span Tables below for flooring applications

#### 25mm F8 CD and DD Square Edge

- 25-24-9, F8/F8 – refer Tables 1 & 2 for Structural Properties
- Refer Span Tables below for flooring applications



SECTION PROPERTIES:

Table 1: Section Properties of 21 & 25mm Guaraply Square Edge Structural Plywood

			Section properties per mm width			
			Parallel to the face grain		Perpendicular to the face grain	
Nominal plywood thickness <sup>1</sup> (mm)	ID code <sup>2</sup>	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> )
21	21-24-7	11.6	483.0	45.1	300.0	33.5
25	25-24-9	13.5	802.0	62.8	380.0	38.0

Table 2: Nominal Strength Properties of 21 & 25mm Guaraply Square Edge Structural Plywood

Nominal plywood thickness <sup>1</sup> (mm)	ID code <sup>2</sup>	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)
21	21-24-7	F8/F8	4395.3	1127.5	2730	837.5
25	25-24-9	F8/F8	7298.2	1570.0	3458.0	625.0

1. Actual thickness of plywood sheets are manufactured to thickness tolerances stated in AS/NZS 2269
2. Identification code: panel thickness – outermost veneer thickness x 10 – number of plies

FLOORING SPAN TABLES:

Table 3: 21 & 25mm CD Square Edge Floor Framing Spacings

Application	21-24-7 F8 Guaraply	25-24-9 F8 Guaraply
	Maximum Frame Centres (mm) with Face Grain Across Framing	
1. Domestic flooring 2kPa - 1.8kN	600	600
2. Institutional and public assembly up to 4kPa - 2.7kN	520	600
3. Institutional and crowd assembly up to 5kPa - 3.6kN	450	540

INSTALLATION:

The Guaraply 21-24-7 & 25-24-9 F8 Structural Plywood distributed by CHH Plywood can be installed in accordance with the ECOPLY® SPECIFICATION & INSTALLATION GUIDE as appropriate. Where the Guaraply 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"

LIMITATIONS:

The information contained in this document is current as at June 2025 and is based on data available to CHH Ply at the time of going to print. CHH Ply 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. CHH Ply has used all reasonable endeavours to ensure the accuracy and reliability of the information contained in this document but, to the extent permitted by law, will not be liable for any inaccuracies, omissions or errors in this information nor for any actions taken in reliance on this information.