



19mm ECOPLY JUST GOT AN UPGRADE

INTRODUCTION

As part of process improvement and product development, Carter Holt Harvey Plywood Ltd (CHH Ply) is proud to introduce an improved veneer layup/construction for the 19mm Ecoply Structural Plywood range (including F1 I/F8 Longspan flooring, F8 flooring, Carpet grade flooring and Ecoply square edge).

This Technical Note details the changes and application of 19mm Ecoply with 19-38-5 construction in lieu of the previous 19-30-7 construction, including Section Properties, Product Identification and Specification & Installation requirements.

SECTION PROPERTIES

Table 1. Section Properties of 19mm Ecoply Structural Plywood, denotes the section properties for the new 19-38-5 construction, together with the section properties of the previous 19-30-7 construction. 19-38-5 demonstrates improved structural properties in the parallel to the grain direction, whilst exhibiting reduced structural properties in the perpendicular direction. For Specific Engineering Design (SED) projects, engineers will need to confirm the suitability of the 19-38-5 plywood as appropriate for their design.

Table 1: Section Properties of 19mm Ecoply® Structural Plywood

| Nominal plywood thickness ¹ | ID code ² | Mass | Section properties per mm width | | | | | |
|--|----------------------|----------------------|---------------------------------|----------------------|------------------------|---------------------------------|----------------------|------------------------|
| | | | Parallel to the face grain | | | Perpendicular to the face grain | | |
| | | | Parallel Moment of Inertia | Section Modulus | Shear Constant | Perpendicular Moment of Inertia | Section Modulus | Shear Constant |
| (mm) | | (kg/m ²) | (mm ⁴) | Z (mm ³) | I/Q (mm ²) | I (mm ⁴) | Z (mm ³) | I/Q (mm ²) |
| +9 | 19-30-7 | 10.6 | 451.0 | 46.9 | 13.7 | 157.0 | 23.8 | 10.7 |
| 19 | 19-38-5 | 10.6 | 456.3 | 47.7 | 14.8 | 132.5 | 20.9 | 9.2 |

¹ Actual thickness of Ecoply sheets manufactured to thickness tolerances stated in AS/NZS 2269

² Identification code: panel thickness – outermost veneer thickness x 10 – number of plies

³ I/Q values for rolling shear are for stress at the neutral axis calculated as in NZS 3603

PRODUCT IDENTIFICATION

In accordance with AS/NZS 2269, Ecoply structural plywood sheets have the following information marked on the back:

- Brand name: e.g. ECOPLY
- Face grade, back grade: e.g. CD
- Intended application: e.g. STRUCTURAL
- 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. F11/F8
- Nominal Thickness: e.g. 19-
- The values of second moment of area (moment of inertia) (I) and section modulus (Z) in the grain orientations to which the properties are declared: e.g. 456.3,47.7/132.5,20.9
- Date and time of manufacture: e.g. 01/12/15 12:23:45
- The Engineered Wood Products Association of Australasia (EWPPAA) brand and mill number: e.g. 911 (Tokoroa mill)

Example

ECOPLY CD STRUCTURAL A BOND E0
AS/NZS 2269.0:2012
19-(456.3,47.7/132.5,20.9)
OPERATOR/DATE/TIME F11/F8



SPECIFICATION & INSTALLATION

19-38-5 Ecoply Structural Plywood shall be specified and installed in accordance with the product specific usage requirements for nominal 19mm plywood as detailed in the Ecoply® Specification and Installation Guide and/or NZS 3604, Timber framed buildings, as appropriate. Where the 19mm plywood solution is part of SED, refer to structural engineer's details.ils.

CONCLUSION

19mm Ecoply Structural Plywood products manufactured by CHH Ply from October 2021 will have a veneer layup corresponding with an ID Code of 19-38-5. The span tables and installation requirements detailed in the Ecoply® Specification and Installation Guide remain applicable for this alternate veneer layup.

For SED projects, engineers will need to confirm the suitability of the 19-38-5 plywood as appropriate for their design.

REFERENCES

- Ecoply® Specification & Installation Guide
- NZS 3604:2011, Timber framed buildings

LIMITATIONS

The information contained in this document is current as at October 2021 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 or call 0800 326 759 to confirm that you have the most up to date information available.

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