



# altripan uk ltd

Quality plywood since 1968

PRODUCT DATA SHEET

## Altri-Floor TSU-01

CE, UKCA, BS 8203: 2017 Annex A Plywood Standards

Altri-Floor TSU-01 Plywood underlayment is an engineered hardwood plywood designed to be the ultimate substrate for floor coverings. Using fully exterior phenol formaldehyde resin and engineered hardwood veneers you can trust in “what’s underneath”.

Specification											
<b>BS8203</b>	TSU-01 plywood exceeds the requirements of BS8203:2017.annex A-Flooring grade plywood guidelines.										
<b>FSC®</b>	FSC® 100% veneers. Using Eucalyptus, non-tropical hardwood from FSC® certified plantations, helping to protect the tropical rain forests and the environment.										
<b>Glue Bond</b>	TSU-01 conforms to the highest bond class standard. BS EN314.2 Class 3. Using phenol formaldehyde resins and fully dried.										
<b>Strength</b>	4-ply construction gives greater strength and stability than usual 3 ply panels. Eucalyptus veneers give TSU-01 a density of 585.650kg/m3. This moderately heavy hardwood enhances the screw holding and fixing capabilities of the panels.										
<b>Core</b>	Machine jointed core veneers prevent gaps or overlaps which can telegraph through the floor covering.										
<b>Faces</b>	Face veneers of 1.3mm prevent blisters and the weak bond of panels with thinner veneers. All natural defects in the faces are repaired, filled and sanded.										
<b>CFA</b>	TSU-01 is manufactured in accordance with and certified as fully compliant with CFA Guidance and BS 8203: 2017-Code of practice for installation of resilient floor coverings-Plywood Specification.										
<b>Assurance</b>	<p>TSU-01 underlayment plywood meets or exceeds the following standards and is 3rd party verified by BBA.</p> <p><b>CE, UKCA, BS-EN 13986. Plywood Standards, testing and marking.</b></p> <table><tr><td>BS EN314-2</td><td>Class 3 – Glue Bond requirements for plywood for exterior use</td></tr><tr><td>BS EN315</td><td>Dimensional tolerances for plywood</td></tr><tr><td>BS EN636-3</td><td>Requirements for plywood for exterior use</td></tr><tr><td>BS EN635-1</td><td>Plywood classification by surface appearance</td></tr><tr><td>BS EN350</td><td>Class 3 against fungal decay</td></tr></table>	BS EN314-2	Class 3 – Glue Bond requirements for plywood for exterior use	BS EN315	Dimensional tolerances for plywood	BS EN636-3	Requirements for plywood for exterior use	BS EN635-1	Plywood classification by surface appearance	BS EN350	Class 3 against fungal decay
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**“IT’S WHAT’S  
UNDERNEATH THAT  
COUNTS”**



SALES ENQUIRIES  
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### Installation Guidelines

Always refer to BS 8203:2017 Code of Practice for the Installation of Resilient Floor Coverings Following extensive consultation with industry experts we have detailed some suggested procedures to help achieve a professional and reliable installation of plywood in the subfloor preparation process.

The single most important factor affecting the performance of plywood in a subfloor is moisture, and with this in mind, we pay particular attention to this aspect in our guidance notes. In common with other woodbased panel products, TSU-01® plywood is hygroscopic and its dimensions will change in response to changes in humidity. However, wood tends to shrink/expand much more across the grain than along the grain and the cross - laminated structure of plywood means that the longitudinal veneers in one ply tend to restrain the perpendicular veneers in the adjacent ply. Accordingly, the dimensional movement of TSU-01® is quite small: Typically, a 1 % change in moisture content increases or decreases the length and width of plywood by about 0.15mm per metre run. The corresponding change in thickness is likely to be in the region of 0.3% to 0.4% per 1 % change in moisture content. These figures should be taken as a guide only. When overlaying a subfloor with plywood, a moisture test of the subfloor should be carried out using a wood moisture meter. A reading of the relative humidity in the air and the room temperature also needs to be carried out. Once all three readings have been taken, the installer should be able to make a decision on whether the timber subfloor is at the correct moisture content in relation to the humidity and temperature of the room.

Prior to installing, a moisture test should be carried out on the plywood and a reading taken. If it is within + or -2% of the timber subfloor the plywood can be installed i.e.; if the subfloor

has a reading of 10% moisture content, the plywood would need to have a moisture content of between 8% me – 12% before it can be installed. If the reading is not within 2% of the subfloor, the plywood should be left in the room to acclimatise until it is within equilibrium of the subfloor.

Before laying sheets, the subfloor should be thoroughly cleaned and checked for removal of any debris allowing sheets to lay as flat as possible. The correct thickness of plywood panel should be selected dependant on the quality of the surface to be overlaid and the overall height of the finished floor. It is recommended, where possible, that sheets are laid perpendicular to floor boards with the joints in the plywood staggered. Typical fixings recommended are ring shank nails and countersunk screws. Advice on suitability of fixing process should be taken with regard to the type of covering to be applied and any further surface preparation required. For best results fixings should be countersunk.

Fixings should be spaced at a maximum 100 mm centres around the perimeter of each plywood sheet, 12 mm from the edge and at a maximum 150 mm within the sheets. When using levelling or seam filling compounds which contain water, the plywood and associated subfloor components will again need to be allowed a period to dry out and reach a moisture equilibrium before further finishing of the floor covering installation.

**Please note that TSU-01® is stamped on the face side (This side up).**

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