

Whittle Flooring Company
Limited

Technical Data Sheet

TSWF- PXB

Finnish Birch Plywood with
Hexa-Grip (Brown)

Issue 3
Page 1 of 6



Whittle Flooring Company Ltd plywood specification PXB is a plywood panel coated with brown film and imprinted with a hexagonal pattern. It is intended for use as flooring in the transport industry i.e. trailers and horse boxes and building applications such as warehouse floors, loading platforms and scaffolding. WISA-Hexa Grip is a suitable choice as a flooring panel where slip resistant and decorative looks are needed.

Base board

Plywood constructed solely from Finnish Birch 1.4mm thick plies glued in a cross bonded lay-up. The Botanical name for Finnish Birch is *Betula Pendula* (Silver Birch).

Bonding

Phenolic resin cross-bonded weather resistant gluing according to **EN 314-2 Class 3**; Capable of withstanding exposure to weathering conditions, and liquid water over sustained periods of time (Replacing BS 6566: WBP).

Performance Class

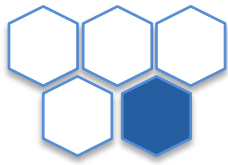
Biological durability; for use as a structural component in exterior conditions including liquid water or water vapour in damp but ventilated locations in accordance with **EN 636-3 S**.

Whittle Flooring Company Limited

Aston Way, Leyland, Lancashire, PR26 7UX U.K.

Tel: 00 44 (0) 1772 641211 Fax: 00 44 (0) 1772 641311

Email: wfl@whittlegroup.co.uk www.whittleflooringcompany.co.uk



Whittle Flooring Company
Limited

Technical Data Sheet

TSWF- PXB

Finnish Birch Plywood with
Hexa-Grip (Brown)

Issue 3
Page 2 of 6

Surface

Face: Brown (RAL 8017) phenolic resin film with a 10 mm diameter hexagonal pattern.

Reverse: Smooth phenolic moisture barrier, other reverse side coatings available upon request.

Face veneer grades II and III according to standard EN 635-3.

Additional grade G, solid surface with no open defects (improved grade II).

Technical properties of coated surface

Wear resistance value (Taber DIN 53799) average 570 cycles.

Rolling test value (SS 923502) 1750 cycles.

Improved water resistance through coating.

Chemical resistance: endures mild alkalis.

Direct exposure to sunlight may accelerate the ageing and colour alterations of the surface.

Formaldehyde Emissions

Very low Emission class **E1** in accordance with **EN 717-2** (gas analysis method). The Formaldehyde emission from uncoated exterior plywood is under 0.4mg/(m² x h), significantly lower than the Class E1 requirement of 3.5mg/(m³ x h).

Release class **A** in accordance with **EN 1084**.

This plywood does not contain pentachlorophenol (PCP).

Source

Plywood and veneer come only from legal sources within Europe and conform to all the relevant standards and regulations including European Union Timber Regulation (**EUTR**). Birch is 70% **PEFC** certified **BMT-PEFC-1510** (Specify requirement on ordering).

Whittle Flooring Company Limited

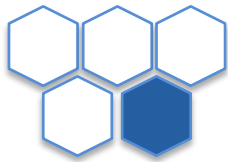
Aston Way, Leyland, Lancashire, PR26 7UX U.K.

Tel: 00 44 (0) 1772 641211

Fax: 00 44 (0) 1772 641311

Email: wfl@whittlegroup.co.uk

www.whittleflooringcompany.co.uk



Whittle Flooring Company Limited

Technical Data Sheet

TSWF- PXB

Finnish Birch Plywood with Hexa-Grip (Brown)

Issue 3
Page 3 of 6

Thicknesses and Weights

Thicknesses and weight of standard and scarf-jointed plywood tolerances fulfil the EN 315 (Plywood - Tolerances for dimensions) requirements.

Nom. Thickness mm	No. of Plies	Min. Thickness mm	Max Thickness mm	Weight Kg/m ² abt	Maxi panels Thickness mm
9	7	8.8	9.5	6.5	8.3 - 9.0
12	9	11.5	12.5	8.5	11.0 - 12.0
15	11	14.3	15.3	10.5	13.8 - 14.8
18	13	17.1	18.1	12.3	16.6 - 17.6

Sizes and thicknesses relating to moisture content 8-12%

Panel Sizes

Standard 1220 x 2440mm / 1525 x 3050mm

Maxi Size Maximum scarf jointed panel is 4000mm x 2100mm
Other dimensions available on request

Panel Size Tolerances Non-machined sheet material only

Size	Tolerance
< 1000mm	+/- 1mm
1000-2000mm	+/- 2mm
2000-4000mm	+/- 3mm

Squareness tolerance +/- 1mm per 1000mm

Edge Sealant

All machined edges and rebates are sealed with two coats of preservative treatment and two coats of copolymer paint

Machining

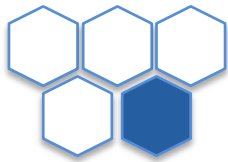
Full CNC machining service available as well as bonding and assembly work undertaken. CNC machined tolerances to BS EN 22768. Please forward CAD/drawing for quotation

Whittle Flooring Company Limited

Aston Way, Leyland, Lancashire, PR26 7UX U.K.

Tel: 00 44 (0) 1772 641211 Fax: 00 44 (0) 1772 641311

Email: wfl@whittlegroup.co.uk www.whittleflooringcompany.co.uk



Whittle Flooring Company
Limited

Technical Data Sheet

TSWF- PXB

Finnish Birch Plywood with
Hexa-Grip (Brown)

Issue 3
Page 4 of 6

Strength Characteristics

Finnish Birch Plywood						Characteristic strength		Mean modulus of elasticity	
Section Properties						Bending		Bending	
Nominal thickness	Number of plies	t _{mean} mm	A mm ² /mm	W mm ³ /mm	I mm ⁴ /mm	f _m N/mm ²	f _{m⊥} N/mm ²	E _m N/mm ²	E _{m⊥} N/mm ²
9	7	8.8	8.8	12.9	56.8	45.6	32.1	11395	6105
12	9	11.6	11.6	22.4	130	42.9	33.2	10719	6781
15	11	15.4	15.4	39.5	304	41.3	33.8	10316	7184
18	13	17.8	17.8	52.8	470	40.2	34.1	10048	7452

Fire Rating

E118R11 approved

Approval number - E17 118R11-010009 <->

EC 95/28 Type approval / Segment 61 (Buses)

Approval number - E17*95/28*95/28*0004*004

Storing Instructions

Store plywood panels in a dry, covered place away from direct sunlight. Panels should be stored horizontally on a level surface in an atmosphere conducive to the environment intended for its end use.

Whittle Flooring Company Limited

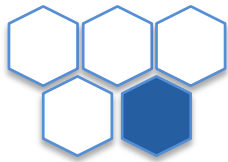
Aston Way, Leyland, Lancashire, PR26 7UX U.K.

Tel: 00 44 (0) 1772 641211

Fax: 00 44 (0) 1772 641311

Email: wfl@whittlegroup.co.uk

www.whittleflooringcompany.co.uk



Whittle Flooring Company
Limited

Technical Data Sheet

TSWF- PXB

Finnish Birch Plywood with
Hexa-Grip (Brown)

Issue 3
Page 5 of 6

Other Information

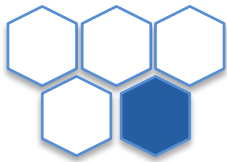
- 1. Embodied energy** - Wood has the lowest embodied energy of any mainstream building material; glass requires six times the amount of energy to produce than wood, Steel 24 times and Aluminium 125 times. In Finland, this is further enhanced by harvesting Biomass energy from the by-products to power the production process.
- 2. Thermal insulation** - Timber has the best thermal insulation properties of any mainstream building material, for example it is 350 times better than Steel.
- 3. Stable supply** - Finnish forests have annual quotas for felling and replanting trees, the ratio of which is controlled by regulatory authorities. This ensures a long-term supply whilst preserving the environment.
- 4. Recyclable** - Plywood and the wood waste from production processes has many recyclable uses, with the latest landfill directives creating even greater demand for such alternative uses.
- 5. Sustainable Forestry** - All our plywood comes from sustainable, managed forests certified by the **PEFC** with a system of Chain of Custody certification allowing traceability from the forest to the end user. The **PEFC** provides an assurance mechanism to purchasers of timber products that they are promoting the sustainable management of the forests.
- 6. Carbon Neutral** - Wood from sustainable forests can actually be better than carbon neutral.

Whittle Flooring Company Limited

Aston Way, Leyland, Lancashire, PR26 7UX U.K.

Tel: 00 44 (0) 1772 641211 Fax: 00 44 (0) 1772 641311

Email: wfl@whittlegroup.co.uk www.whittleflooringcompany.co.uk



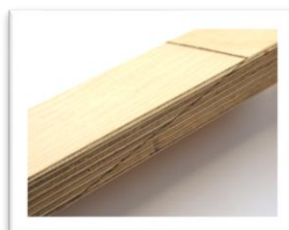
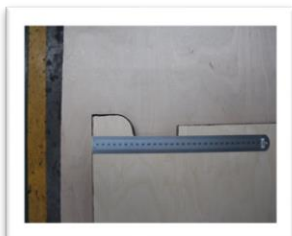
Whittle Flooring Company
Limited

Technical Data Sheet

TSWF- PXB

Finnish Birch Plywood with
Hexa-Grip (Brown)

Issue 3
Page 6 of 6



Whittle Flooring Company Limited

Aston Way, Leyland, Lancashire, PR26 7UX U.K.

Tel: 00 44 (0) 1772 641211

Fax: 00 44 (0) 1772 641311

Email: wfl@whittlegroup.co.uk

www.whittleflooringcompany.co.uk