

TECHNICAL PROPERTIES

SEPTEMBER 2025

1. Product Description

IBS Plyroof is an F11 structural plywood. The veneers are glued with an exterior phenol formaldehyde resin. The IBS Plyroof sheets are CD grade; no knot holes and only minor face repairs. Sheets are supplied untreated or treated to H3 (Micronized Copper Azole (MCA)) or H3.2 (CCA).

The sheets have a plastic tongue and groove installed down the length of the board to enable simpler joining. If designed, installed and maintained in accordance with all IBS requirements, IBS Plyroof will comply with or contribute to compliance with the following performance claims:

IBS Plyfloor Nominal Strengths (Limit States) per mm width							
Parallel to the Face Grain				Perpendicular to the Face Grain			
Nominal Plywood Thickness ² (mm)	Stress Grade	Bending Stiffness EI (1000 Nmm ²)	Bending Moment $f_{pb}Z$ (Nmm ²)	Rolling Shear $f_{pr}I/Q$ (N)	Bending Stiffness EI (1000 Nmm ²)	Bending Moment $f_{pb}Z$ (Nmm)	Rolling Shear $f_{pr}I/Q$ (N)
15	F11	2357.3	920.7	21.0	593.2	325.0	11.1

IBS Plyfloor Characteristic Strength MPa	
Stress Grade	F11
Bending (f_{pb})	31.0
Tension (f_{pt})	18.0
Panel Shear (f_{ps})	4.5
Rolling Shear (f_{pr})	1.8
Compression in Plane of Sheet (f_{pc})	22.0
Compression Normal to the Plane of the Sheet (f_{pp})	12.0
Modulus of Elasticity (E)	10500
Modulus of Rigidity (G)	525