PRODUCT DATA SHEET

EGGER OS´Brace™ – H3.1

Recipe: 741, (sanded/unsanded)

Material description: OSB/3 board (according EN 300) for use for load bearing purposes under humid conditions. Only the thickness of 6 mm is certified by UTS (University of Technology, Sydney) as "Structural Sheet Bracing Panel" under AS 1684 and AS 1720.1 in Australia and tested for earthquake related racking resistance by SCION, New Zealand. The boards contain chemical additive as fungicides acc. to AS/NZS 1604.2 fulfilling H3.1 requirement, Formaldehyde emission class – E1, Tests according valid EN-standards. Strength values are average values.

PLANT: WISMAR

Board type according EN 300

Mechanical properties	Standard	Unit	Requirement			
Board thickness		[mm]	6,0	›6 - 10	›10 - ‹18	18 - 25
Density	EN 323	[kg/m³]	≥600	≥600	≥600	≥600
Internal bond	EN 319	[N/mm²]	≥0,34	≥0,34	≥0,32	≥0,30
Internal bond after cycle test	EN 321	[N/mm²]	≥0,18	≥0,18	≥0,15	≥0,13
Bending strength major axis	EN 310	[N/mm²]	≥22	≥22	≥20	≥18
Bending strength after cycle test major axis	EN 310	[N/mm²]	≥9	≥9	≥8	≥7
Bending strength minor axis	EN 310	[N/mm²]	≥11	≥11	≥10	≥9
Modulus of elasticity major axis	EN 310	[N/mm²]	≥4500			
Modulus of elasticity minor axis	EN 310	[N/mm²]	≥1800			
Swelling in thickness 24h	EN 317	[%]	≤15			
Tolerance of the mean density	EN 323	[%]	±15			
Moisture content*1	EN 322	[%]	2-12			
Sanding grade			grade 100			
Formaldehyde content *2	EN ISO 12460-5	[mg/100g]	≤8,0			

General tolerances	Standard	Unit	Requirement
Tolerance in length	EN 324-1	[mm]	±3,0
Tolerance in width	EN 324-1	[mm]	±3,0
Tolerance in thickness (sanded)	EN 324-1	[mm]	+/- 0,1 mm target ex sanding machine, +/- 0,2 mm guaranteed ex sanding machine, - 0,2 mm / +0,5 mm guaranteed CIF
Tolerance in thickness (unsanded)	EN 324-1	[mm]	±0,5
Squareness tolerance	EN 324-2	[mm/m]	≤2,0
Edge straightness tolerance	EN 324-2	[mm/m]	≤1,5

Building physical properties		Standard / Unit / Requirement
Thermal conductivity		EN 13986 / [W/(m·K)] / 0,13
Water vapour permeability (μ-value)		EN ISO 12572 / - / 200/150 (dry / humid)
fungicide	Boards are manufactured using a chemical additive made by Dr. Wolman GmbH containing WOLSIT F15 as fungicide. The amount of additive is used according to AS NZS 1604-2, "Minimum Preservative Retention Requirement".	
Approval	Australia, 6 mm	1. AS1684 – 1999 SAA National Timber Framing Code 2. AS1720.1 – 1997 SAA Timber Structures Code – Part 1 Design Methods UTS, 30.09.2005 (University of Technology, Sydney)

*1) When dispatched

*2) Perforator value according EN ISO 12460-5:
according "DIBt-recommendation 100" from June 1994 are the allowed values:
half year average value: 6,5mg HCHO/100g abs. dry board
single value: 8,0mg HCHO/100g abs. dry board