

Quality Management ISO 9001

Coding: DBHEX100

Revision: 04

TECHNICAL DATA SHEET

DBHEX100 – EUROSPAN® Fire Door Cores – FD30 & FD60



1. Tradenames

EUROSPAN® Extra Light E1
 EUROSPAN® FD30
 EUROSPAN® FD60

2. Product Type

Low density particleboard specifically produced for Fire door core manufacture.

EGGER EUROSPAN® particleboards are intended for general purpose use in dry conditions (relative humidity of surrounding area only exceeding 65% for a few weeks per year). The component must allow quick release of any trapped moisture.

Boards of this type are only suitable for use in biological hazard class 1 of EN 335-3.

2.1 Construction

EGGER EUROSPAN® particleboards are manufactured to **EN312:2003** under an **ISO9001:2008** Quality Management System OQS Certificate Number **184/0**.

EGGER EUROSPAN® particleboards are **FSC** certified through the HolzCert Austria Chain of Custody Certificate **HCA-COC-100017**.

The **44mm EUROSPAN® FD30** and **54mm EUROSPAN® FD60** boards also carry the BM Trada Q-Mark and meet the requirements of **BS476: Part 22:1987** Global Fire Resistance Assessment Report number **Chilt/A09077 Revision A** and **Chilt/A10187** respectively.

3. Technical Specifications

Testing and conditioned in accordance with EN 312:2003

3.1 General properties and tolerances (ex factory)

	Method	EUROSPAN® FD30 & EUROSPAN® FD60
Thickness within and between boards	EN 324-1	+/- 0.3mm
Length and width	EN 324-1	+/- 2mm
Edge straightness	EN 324-2	1.5mm per m
Squareness	EN 324-2	2mm per m
Moisture content	EN 322	6% to 8%
Mean density within a board	EN 323	+/- 10%
Formaldehyde (perforator value)	EN 120	E1 (<8mg/100g)

3.2 Mechanical properties (38mm Extra Light E1)

Property	Test Method	Unit	Mean	L5% or U5%	Requirement
Density	EN323	kg/m³	423	n/a	n/a
Internal bond	EN319	N/mm²	0.15	n/a	n/a

3.3 Mechanical properties (44mm FD30)

Property	Test Method	Unit	Mean	L5% or U5%	Requirement
Bending Strength	EN310	N/mm ²	9.6	8.6	>7.0
Modulus of elasticity	EN310	N/mm ²	1835	1600	>1050
Density	EN323	kg/m ³	545		
Internal bond	EN319	N/mm ²	0.33	0.24	>0.20
Surface soundness	EN311	N/mm ²	1.02	0.85	>0.80

Percentile values shown are based on mean values for unconditioned individual boards tested in accordance with EN312:2003 and calculated in accordance with EN 326-1.

3.4 Storage and Conditioning

Climate

Like other wood-based panel products, wood particleboard is hygroscopic and its dimensions change in response to a change in humidity.

As a guide, a change in moisture content of 1% typically results in a corresponding dimensional increase or decrease in length and width of 0.5mm per metre and 0.2mm in thickness.

3.5 Mechanical properties (54mm FD60)

Property	Test Method	Unit	Mean	L5% or U5%	Requirement
Density	EN323	kg/m ³	610		
Internal bond	EN319	N/mm ²	0.27	0.22	>0.20
Surface soundness	EN311	N/mm ²	1.00	0.94	>0.80

Panels must be protected from rain and direct wetting at all times and stored in a dry enclosed building.

Wood-based panels expand on taking up moisture from the surrounding air and shrink on losing moisture. Wood-based panels are manufactured to close dimensional tolerances and any changes in moisture content will lead to dimensional changes that can cause problems in service.

In order to minimise the risk of this occurring, the moisture content of panels at the time of installation should be as close as possible to the in-service moisture content. Since the panels are manufactured at low moisture contents, between 6% and 8% they may still be dry at the time of delivery.

Provisional note: This technical data sheet has been carefully drawn up to the best of our knowledge. We accept no liability for any mistakes, errors in standards or printing errors. In addition, technical modifications can result from the continuous further development, as well as from changes in standards and documents originating from statutory bodies. The contents of this technical leaflet should therefore not be considered as instructions for use or as legally binding.