TECHNICAL DATA SHEET

DBHEX100 – EUROSPAN® Fire Door Cores – FD30

1. Tradenames

EUROSPAN® FD30

2. Product Type

Low density particleboard specifically produced for Fire door core manufacture.

EGGER EUROSPAN® FD30 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® FD30 particleboards are manufactured to **EN312:2003** under an **ISO9001:2008** Quality Management System OQS Certificate Number **184/0**.

EGGER EUROSPAN® FD30 particleboards are **FSC** certified through the HolzCert Austria Chain of Custody Certificate **HCA-COC-100017.**

The **44mm P2** boards also carry the BM Trada Q-Mark and meet the requirements of **BS476: Part 22** Certificate number **FEA/F09077** Revision A.

3. Technical Specifications

Testing and conditioned in accordance with EN 312:2003

3.1 General properties and tolerances (ex factory)

	Method	EUROSPAN® FD30
Thickness within and between boards	EN 324-1	+/- 0.2mm
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 (38 mm P1)

Property	Test Method	Unit	Mean	L5% or U5%	Requirement
Bending Strength	EN310	N/mm^2	5.3	4.3	n/a
Modulus of elasticity	EN310	N/mm^2	1160	970	n/a
Density	EN323	kg/m^3	437		n/a
Internal bond	EN319	N/mm^2	0.16	0.10	n/a
Surface soundness	EN311	N/mm^2	0.64	0.52	n/a

3.3 Mechanical properties (44mm P2)

Property	Test Method	Unit	Mean	L5% or U5%	Requirement
Bending Strength	EN310	N/mm²	9.6	7.8	›7.0
Modulus of elasticity	EN310	N/mm²	1770	1530	›1050
Density	EN323	kg/m³	541		
Internal bond	EN319	N/mm²	0.34	0.22	›0.20
Surface soundness	EN311	N/mm²	1.00	0.82	›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.

Panels must be protected from rain and direct wetting at all times and stored in an 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 excessive changes in moisture content can lead to dimensional changes that can cause problems, such as bowing, 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. Panels are normally manufactured at low moisture contents, between 6% and 8%, and may still be dry at the time of delivery.

4.0 Labelling for EUROSPAN®

E EGGER CC EUROSPAN® E1 P1 38 mm CE 09 EN 13986 101 270903312222 13:45

E EGGER:	Manufacturer
CC:	FSC Chain of Custody identification
EUROSPAN®:	Tradename
E1:	Formaldehyde Emission class
P1:	Product type
38 mm:	Thickness
CE:	CE mark symbol
09:	Two digits of the year when the marking was affixed
EN 13986:	Number of EC certificate of conformity
101:	SAP Recipe number
270903312222	Twelve digit code for traceability
13:45	Time board was produced