



# TECHNICAL DATA SHEET

PLANT - HEXHAM

**EGGER** | **EUROSPAN® E1 P2** 



## 1. Trade names

EGGER EUROSPAN® E1 P2

Date: 09/05/06

## 2. Product Type

EGGER EUROSPAN® E1 P2 chipboards are intended for interior fittings (including furniture) for 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® E1 P2 chipboard is manufactured to **EN 312-2:2003**.

EGGER EUROSPAN® E1 P2 chipboard is FSC certified and carries the BM Trada Chain of Custody Certificate number **TT-COC-1519**.

## 3. Technical Specifications

Testing and conditioned in accordance with EN 312-2:2003

### 3.1 Mechanical properties (>13 to 20mm P2)

| Property                         | Test Method | Unit              | Mean                 | L <sub>5%</sub> or U <sub>5%</sub> | Requirement |
|----------------------------------|-------------|-------------------|----------------------|------------------------------------|-------------|
| Bending strength                 | EN 310      | N/mm <sup>2</sup> | 16.0                 | 13.4                               | 13.0        |
| Modulus of elasticity            | EN 310      | N/mm <sup>2</sup> | 2600                 | 2140                               | 1600        |
| Density                          | EN 323      | kg/m <sup>3</sup> | 660                  |                                    |             |
| Internal bond                    | EN 319      | N/mm <sup>2</sup> | 0.57                 | 0.42                               | 0.35        |
| Surface soundness                | EN 311      | N/mm <sup>2</sup> | 1.17                 | 0.92                               | 0.80        |
| Moisture content                 | EN322       | %                 | 5-13                 |                                    |             |
| Formaldehyde* (perforator value) | EN 120      | mg/100g           | Class E1 (<8mg/100g) |                                    |             |

### 3.2 Mechanical properties (>32 to 40mm P2)

| Property                         | Test Method | Unit              | Mean                 | L <sub>5%</sub> or U <sub>5%</sub> | Requirement |
|----------------------------------|-------------|-------------------|----------------------|------------------------------------|-------------|
| Bending strength                 | EN 310      | N/mm <sup>2</sup> | 11.7                 | 9.1                                | 8.5         |
| Modulus of elasticity            | EN 310      | N/mm <sup>2</sup> | 2020                 | 1520                               | 1200        |
| Density                          | EN 323      | kg/m <sup>3</sup> | 600                  |                                    |             |
| Internal bond                    | EN 319      | N/mm <sup>2</sup> | 0.45                 | 0.37                               | 0.20        |
| Surface soundness                | EN 311      | N/mm <sup>2</sup> | 1.04                 | 0.90                               | 0.80        |
| Moisture content                 | EN322       | %                 | 5-13                 |                                    |             |
| Formaldehyde* (perforator value) | EN 120      | mg/100g           | Class E1 (<8mg/100g) |                                    |             |

Percentile values shown are based on mean values for conditioned individual boards tested in accordance with EN312-2:2003 and calculated in accordance with EN 326-1.

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### 3.5 General properties and tolerances (ex factory)

| Building physical properties  | Unit    | Board thicknesses   |           |        |        |
|---|---------|---|-----------|--------|--------|
|   | [mm]    | >13-20  | >20-25    | >25-32 | >32-40 |
| Fire behaviour category   |         |   |           |        |        |
| Board thickness $\geq$ 9 mm in line with EN 13 986 and density $\geq$ 600 kg/m <sup>3</sup> |         | D - s2, d0  |           |        |        |
| Water vapour diffusion resistance value   |         |   |           |        |        |
| Mean density 600 kg/m <sup>3</sup>  |         | $\mu$ moist   | $\mu$ dry |        |        |
| Mean density 900 kg/m <sup>3</sup>  |         | 15  | 50        |        |        |
|   |         | 20  | 50        |        |        |
| Thermal conductivity EN 12524   |         |   |           |        |        |
| Mean density 600 kg/m <sup>3</sup>  | W/(m·K) | 0.12  |           |        |        |
| Mean density 900 kg/m <sup>3</sup>  |         | 0.18  |           |        |        |
| Air sound insulation EN 13986   |         |   |           |        |        |
| EN 13986  |         | $R = 13 \times \lg(m_A) + 14$<br>$m_A =$ board surface weight kg/m <sup>2</sup> |           |        |        |
| Sound absorption EN 13986   |         |   |           |        |        |
| Frequency range   |         |   |           |        |        |
| 250 Hz bis 500 Hz   |         | 0.10  |           |        |        |
| 1000 Hz bis 2000 Hz   |         | 0.25  |           |        |        |
| Biological durability EN 13986  |         |   |           |        |        |
| EN 335-3  |         | Hazard category 1<br>(no earth contact; dry 20°C/65% relative humidity)         |           |        |        |
| PCP content EN 13986  |         |   |           |        |        |
| EN 13986  | [ppm]   | <5  |           |        |        |

### 4.0 Labelling for EUROSPAN®

**E EGGER CC EUROSPAN E1 P2 18mm** **CE 03 EN 13986 001** 060307011122 13:45

|              |   |
|--------------|---|
| E EGGER:     | Manufacturer  |
| CC:          | FSC Chain of Custody identification                 |
| EUROSPAN:    | Tradename   |
| E1:          | Formaldehyde Emission class                         |
| P2:          | Product type  |
| 18mm:        | Thickness   |
| CE:          | CE mark symbol                                      |
| 03:          | Two digits of the year when the marking was affixed |
| EN 13986:    | Number of EC certificate of conformity              |
| 001:         | SAP Recipe number                                   |
| 060401012222 | Twelve digit code for traceability                  |
| 13:45        | Time board was produced                             |

#### \*1) In line with EN 120

Perforator limit value (photometric) of 8 mg HCHO/100g at board with a material moisture of 6.5% may not be exceeded. Sliding half-year mean value applicable to products in Germany. In accordance with the "Chemikalienverbotsverordnung – ChemVerbotsV –" [Order prohibiting certain chemicals] appendix to §1, section 3 of 14 October 1993 in conjunction with the publication by the BGA in the Federal Health Gazette (p487 – 489) 10/91 regarding "Testing procedures for wood-based materials", a perforator limit value (photometric) of 8mg HCHO/100g at board at a humidity of 6.5% for non-laminated chipboards ought not to be exceeded. The sliding half-year mean value is a maximum of 6.5 mg HCHO/100g at board.