# TECHNICAL DATA SHEET

## EGGER Thinchipboard E1 BESCH P2 CE

Recipe 172
Application: Base particle board for coating with impregnated papers, laminates and veneers.

## EGGER Thinchipboard E1 RAL P2 CE

Recipe 173
Application: Internal door blanks for dry conditions

## Board type in line with EN 312-2

| Mechanical properties<br>Board mean values | Unit | Recipe 172 | Recipe 173 |
|---|---|---|---|
| **Board thickness** | [mm] | 2.8 – 4.0 | 3.0 – 3.1 |
| **Density** | [kg/m³] | Plant specific | |
| **Internal Bond strength EN 319** | [N/mm²] | ≥ 1.0 | ≥ 1.1 |
| **Bending strength EN 310** | [N/mm²] | ≥ 18 | ≥ 20 |
| **Modulus of elasticity EN 310** | [N/mm²] | ≥ 2200 | ≥ 2400 |
| **Moisture content *1 EN 322** | [%] | 5-9 | |
| **Formaldehyde content *2 EN 120** | [mg/100g] | E1 | |

| General Tolerances | Unit | Board thickness |
|---|---|---|
| | [mm] | 2.8 – 4.0 |
| **Length and width tolerance EN 324** | [mm] | ±2.0 |
| **Squareness EN 324** | [mm/m] | ±1.5 |
| **Edge straightness tolerance EN 324** | [mm/m] | ≤1.5 |
| **Thickness tolerance EN 324**<br>sanded boards<br>unsanded boards<br>one-sided sanded boards | [mm] | ± 0.10<br>± 0.20<br>± 0.15 |
| **Tolerance on the mean density within a board EN 323** | [%] | ±10.0 |

| Building physical properties | Unit | Board thickness | |
|---|---|---|---|
| | [mm] | 2.8 – 4.0 | |
| **Fire behaviour category** | | | |
| In line with EN13986 | | Class E | |
| **Water vapour diffusion resistance value** | | | |
| | | μ moist | μ dry |
| Mean density 600 kg/m³ | | 15 | 50 |
| Mean density 900 kg/m³ | | 20 | 50 |
| **Thermal conductivity EN 13986** | | | |
| Mean density 600 kg/m³<br>Mean density 900 kg/m³ | W/(m*K) | 0.12<br>0.18 | |
| **Air sound insulation EN 13986** | | | |
| EN 13986 | | $R = 13 \times \lg(m_A) + 14$<br>($m_A$ = board surface weight kg/m²) | |
| **Sound absorption EN 13986** | | | |
| Frequency range<br>250 Hz to 500 Hz<br>1000 Hz to 2000 Hz | | 0.10<br>0.25 | |
| **Biological durability EN 13986** | | | |
| EN 335-3 | | Hazard category 1<br>(no earth contact , dry 20°/65% relative humidity) | |
| **PCP content EN 13986** | | | |
| EN 13986 | [ppm] | ‹ 5 | |

*1 **On delivery**

*2 **Formaldehyde content:**
According to the "Regulation on the Prohibition of Chemicals (ChemVerbotsV)" annex to § 1, clause 3 from 14th October, 1993 in connection with the publication of the BGA in the federal health sheet 10/91 (s. 487-489) about "testing method for particleboard", uncoated particleboard must not exceed a perforator limit value EN 120 (photometrical - EN 120) of 8 mg HCHO/100g over-dry board at moisture content of 6.5 %. The flexible half-years mean value is max. 6.5 mg HCHO/100g over-dry board.

**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.