

## TECHNICAL SPECIFICATIONS

### TEKNOPAN- TYPE (P2) F4STAR Harmonized standard EN 13986 / EN 312

| CONTROL CRITERIA      | TEST STANDARD  | UNIT OR FEATURE   | THICKNESS RANGE (mm, nominal)                    |         |         |         |         |
|-----------------------|----------------|-------------------|--|---------|---------|---------|---------|
|                       |                |                   | 6<t≤13   | 13<t≤20 | 20<t≤25 | 25<t≤32 | 32<t≤40 |
| DENSITY               | EN 323         | kg/m <sup>3</sup> | Specific to plant                                |         |         |         |         |
| INTERNAL BOND         | EN 319         | N/mm <sup>2</sup> | 0,40   | 0,35    | 0,30    | 0,25    | 0,20    |
| BENDING STRENGTH      | EN 310         | N/mm <sup>2</sup> | 11   | 11      | 10,5    | 9,5     | 8,5     |
| MODULUS OF ELASTICITY | EN 310         | N/mm <sup>2</sup> | 1800   | 1600    | 1500    | 1350    | 1200    |
| SURFACE SOUNDNESS     | EN 311         | N/mm <sup>2</sup> | 0,80   |         |         |         |         |
| SCREW HOLD EDGE       | EN 320         | N                 | >450   |         |         |         |         |
| SWELLING 24H          | JIS A 5908     | %                 | ≤ 12   |         |         |         |         |
| MOISTURE CONTENT      | EN 322         | %                 | 5 - 13   |         |         |         |         |
| FORMALDEHYDE RELEASE  | EN ISO 12460-5 | mg/100gr          | < 2,5  |         |         |         |         |
|                       | JIS A 5908     | (F****) mg/L      | Minimum : 0,3 or below<br>Maximum : 0,4 or below |         |         |         |         |

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| DENSITY            | EN 324        | %               | ±10             |         |         |         |         |
| THICKNESS (SANDED) | EN 324        | mm              | ±0,30           |         |         |         |         |
| WIDTH/LENTH        | EN 324        | mm              | ±5              |         |         |         |         |
| EDGE SQUARENESS    | EN 324        | mm              | ±2              |         |         |         |         |

As an official trademark of Kastamonu, **Type (P2) F4STAR Teknopan** boards are raw **ChipBoards** which are produced according to the **Japanese Industrial Standards JIS A5908**. This type of boards are especially used for interior furniture and decoration applications, all kind of coatings and foils can be applied.

**Density:** The density is not exactly specified because of the market variabilities. In order to get exact value of the density you are advised to contact the relevant Sales Executive.

**F4STAR (F★★★★):** Japan F4 Star standards concerns the agriculture and forestry laws and regulations of Japan. Certificates issued by the Ministry, "F4 Star" are consider the highest level of environmental and health standards. F4 Star standard is more stringent standard than the European E0 Standard.

**Note 1:** This document may be modified at any time by the company without any express obligation to send any updated edition to all original recipients. To verify that you have the latest edition available, you are advised to contact the relevant sales executive.

**Note 2:** For current EN document / document scope, it is recommended to contact the relevant sales executive