



The future of sustainable and fire-resistant construction

Technical Data

# 20mm unsanded TDS

Version: 2025

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### Summary of Test reports on Fire Protective Magnesium Sulfat Board, labled "SINH" and "MAGOXX" Übersicht der Prüfberichte von Magnesiumsulphat-Brandschutzplatten der Marke "SINH" und "MAGOXX"

#### Intruduction / Einleitung

The "MAGOXX Platte" is available in thickness varying from 4, 6, 9, 10, 12, 15, 18, 20 mm, both sides glass fibre fleece laminated.  
Die "MAGOXX Platte" ist verfügbar in den Dicken von 4, 6, 9, 10, 12, 15, 18, 20 mm, beidseitig mit Glasvlies kaschiert.

Available standard dimensions are: 2400 x 1200 mm, 2700 x 1200 mm, 3000 X 1200 mm Special sizes available on request  
Verfügbare Standard-Plattengrößen: 2440 x 1220 mm, 2700 x 1220 mm, Sondergrößen auf Anfrage

Fire Tests were performed on boards with tickness of 9 & 12 mm. Stahlbekleidung mit 15mm.  
Die Brandschutz Tests wurden mit Platten in den Stärken 9 & 12mm durchgeführt.

| Test requirement<br>Anforderung                                                                                                                | Standard<br>EN/ÖNORM        | Unit<br>Einheit                                                | 20mm board White<br>20mm Platte Weiß | Testing Date<br>Berichtsdatum | Institute<br>Prüfinstitut |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------|--------------------------------------|-------------------------------|---------------------------|
| Flexural strength - Modulus of rupture<br>Biegefestigkeit - Reißen                                                                             | EN 12647                    | N/mm <sup>2</sup> dry / wet<br>N/mm <sup>2</sup> trocken / naß | 7,05 / 6,21                          | 2-5-2017                      | Bouw Technologie RDA BV   |
| Flexural strength - Modulus of elasticity<br>Biegefestigkeit - Spannkraft                                                                      | EN 12647                    | N/mm <sup>2</sup> dry<br>N/mm <sup>2</sup> trocken             | 2893 / 2593                          | 2-5-2017                      | Bouw Technologie RDA BV   |
| Tensile strength perpendicular to the plane of the board<br>Zugfestigkeit senkrecht                                                            | EN 326-1<br>EN 319          | N/mm <sup>2</sup>                                              | 1,02                                 | 2-5-2017                      | Bouw Technologie RDA BV   |
| Tensile strength parallel to the plane of the board<br>Zugfestigkeit horizontal                                                                | EN 789                      | N/mm <sup>2</sup>                                              | 2,14                                 | 2-5-2017                      | Bouw Technologie RDA BV   |
| Tensile strength - Modulus of Elasticity E <sub>t</sub><br>Zugfestigkeit - Spannkraft                                                          | EN 789                      | N/mm <sup>2</sup>                                              | 3784                                 | 2-5-2017                      | Bouw Technologie RDA BV   |
| Compressive strength<br>Druckfestigkeit                                                                                                        | EN 789                      | N/mm <sup>2</sup>                                              | 9,29                                 | 2-5-2017                      | Bouw Technologie RDA BV   |
| Compressive strength - Modulus of elasticity<br>E <sub>c</sub><br>Druckfestigkeit - Spannkraft                                                 | EN 789                      | N/mm <sup>2</sup>                                              | 2630                                 | 2-5-2017                      | Bouw Technologie RDA BV   |
| Compressive stiffness E <sub>c</sub> A [N]<br>Drucksteifigkeit E <sub>c</sub> A [N]                                                            | EN 789                      | [KN]                                                           | 11,7                                 | 2-5-2017                      | Bouw Technologie RDA BV   |
| Shear Strength &<br>Shear Modulus                                                                                                              | EN 326-1<br>EN 319          | N/mm <sup>2</sup>                                              |                                      |                               |                           |
| Embedment test<br>Dynaplug screws                                                                                                              | EN 383                      | [N]                                                            |                                      |                               |                           |
| Embedment test<br>Ring Nails -common                                                                                                           | EN 383                      | [N]                                                            |                                      |                               |                           |
| Fire classification<br>Brandklasse                                                                                                             | EN 13501-<br>1:2007+A1:2009 | class<br>Klasse                                                | A1                                   | 28-10-2024                    | Intertek                  |
| Dangerous goods<br>Gefährliche Stoffe                                                                                                          | EU Reach 1907/2006          | SVHD's in Chemical<br>List                                     | not detected                         | 28-10-2024                    | Intertek                  |
| Tolerance on length and width<br>Toleranz längs / quer                                                                                         | EN-12467:2012               | mm                                                             | Passed, level 1                      | 28-10-2024                    | Intertek                  |
| Tolerance on thickness<br>Dickentoleranz                                                                                                       | EN 12467:2012               | mm                                                             | Passed, 0,07%                        | 28-10-1924                    | Intertek                  |
| Straightness of edges<br>Geradheit der Kanten / Ecken                                                                                          | EN 12467:2012               | %                                                              | Passed, level 1                      | 28-10-1924                    | Intertek                  |
| Squareness of edges<br>Rechtwinkligkeit der Kanten / Ecken                                                                                     | EN 12467:2012               | mm/m                                                           | 0,03mm/m                             | 28-10-2024                    | Intertek                  |
| Moisture movement / Feuchteentwicklung<br>transversal / longitudinal<br>quer / längs                                                           | EN12467: 2021: 2018         |                                                                |                                      |                               |                           |
| Dimensional changes<br>Maßhaltigkeit                                                                                                           | EN 318:2002                 |                                                                |                                      |                               |                           |
| in length / längs                                                                                                                              |                             | mm/m                                                           |                                      |                               |                           |
| in thickness / Dicke                                                                                                                           |                             | %                                                              |                                      |                               |                           |
| moisture content / Feuchtegehalt                                                                                                               |                             | %                                                              |                                      |                               |                           |
| Apparent density<br>Rohdichte                                                                                                                  | EN 12467:2012               | kg/m <sup>3</sup>                                              | 946                                  | 17-12-2021                    | SGS                       |
| Water absorption<br>Wasseraufnahme                                                                                                             | GB/T 7019-2014              | %                                                              | 36,7                                 | 9-12-2015                     | SGS                       |
| Water Vapor resistance factor<br>Wasserdampfwiderstandsfaktor                                                                                  | EN ISO 12572:2016           | mu                                                             |                                      |                               |                           |
| Water impermeability<br>Wasserundurchlässigkeit                                                                                                | EN 12467:2012               | 24h Test /category B                                           |                                      |                               |                           |
| Klimat, Hitze / Regen<br>Climate, Heat / Rain                                                                                                  | EN 12467:2018               | 50 Cycles, category A                                          |                                      |                               |                           |
| Klimat, Freeze/Thaw<br>Frier / Dooi                                                                                                            | EN 12467:2018               | 25 Cycles, category B                                          |                                      |                               |                           |
| Klimat, Soak Dry<br>Climate, Soak /Dry                                                                                                         | EN 12467:2018               | 25 Cycles, category B                                          |                                      |                               |                           |
| Moisture content / Feuchtegehalt                                                                                                               | EN 322:1993                 | %                                                              |                                      |                               |                           |
| Moisture movement / Feuchteentwicklung<br>transversal / longitudinal<br>quer / längs                                                           | EN 12467:2017               | %                                                              |                                      |                               |                           |
| Thermal conductivity / Wärmeleitfähigkeit                                                                                                      | EN 12667:2001               | [W/(m.K)]                                                      |                                      |                               |                           |
| Linear Thermal Expansion Coefficient,<br>75°C/23C, 16hrs<br>Lineiare Thermische Expansionskoeffizient,<br>75°C/23, 16 Studen                   | ASTM C531-00, 2012          | 10-6, C                                                        |                                      |                               |                           |
| Resistance to nail head pull-through<br>Nagelkopfdurchzugswiderstand                                                                           | ASTM D'1037-12              | (N)                                                            |                                      |                               |                           |
| Falling mass impact resistance<br>500g steel ball, drop height 0,5m<br>Widerstand gegen stoßartige Belastung<br>500g Stahlkugel, Fallhöhe 0,5m | EN 15534-1:2014             | Indentation depth<br>(mm)<br>Eindrücktiefe (in mm)             |                                      |                               |                           |
| Chloride (Cl <sup>-</sup> )                                                                                                                    | PC-TM-650 2.3.28 b:201      | µg/cm <sup>2</sup>                                             |                                      |                               |                           |
| Airborne sound transmission loss<br>Lärm Widerstand                                                                                            | ASTM E90-09                 | dB                                                             |                                      |                               |                           |
|                                                                                                                                                |                             |                                                                |                                      |                               |                           |
|                                                                                                                                                |                             |                                                                |                                      |                               |                           |
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