



The future of sustainable and fire-resistant construction

Technical Data

# 6mm sanded TDS

Version: 2025

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

#### Introduction / 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                                                | 6mm board Grey<br>6mm Platte Grau                                                                                            | 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 | 17,4                                                                                                                         | 17-12-2021                    | SGS                       |
| Flexural strength - Modulus of elasticity<br>Biegefestigkeit - Spannkraft                                                                      | EN 12647                | N/mm <sup>2</sup> dry<br>N/mm <sup>2</sup> trocken             | 6430                                                                                                                         | 17-12-2021                    | SGS                       |
| Tensile strength perpendicular to the plane of the board<br>Zugfestigkeit senkrecht                                                            | EN 326-1<br>EN 319      | N/mm <sup>2</sup>                                              | 1,94                                                                                                                         | 17-12-2021                    | SGS                       |
| Tensile strength parallel to the plane of the board<br>Zugfestigkeit horizontal                                                                | EN 789                  | N/mm <sup>2</sup>                                              | 3,56                                                                                                                         | 16-10-2017                    | Bouw Technologie RDA BV   |
| Tensile strength - Modulus of Elasticity E <sub>t</sub><br>Zugfestigkeit - Spannkraft                                                          | EN 789                  | N/mm <sup>2</sup>                                              | 5955                                                                                                                         | 16-10-2017                    | Bouw Technologie RDA BV   |
| Compressive strength<br>Druckfestigkeit                                                                                                        | EN789                   | N/mm <sup>2</sup>                                              | 8,56                                                                                                                         | 17-12-2021                    | SGS                       |
| Compressive strength - Modulus of elasticity E <sub>c</sub><br>Druckfestigkeit - Spannkraft                                                    | EN 789                  | N/mm <sup>2</sup>                                              | 4689                                                                                                                         | 16-10-2017                    | Bouw Technologie RDA BV   |
| Compressive stiffness E <sub>c</sub> A [N]<br>Drucksteifigkeit E <sub>c</sub> A [N]                                                            | EN 789                  | [N]                                                            | 8.463.045                                                                                                                    | 16-10-2017                    | Bouw Technologie RDA BV   |
| Shear Strength &<br>Shear Modulus                                                                                                              | EN 326-1<br>EN 319      | N/mm <sup>2</sup>                                              | 5,61<br>2497                                                                                                                 | 24-8-2020                     | Bouw Technologie RDA BV   |
| Embedment test<br>Dynaplug screws                                                                                                              | EN 383                  | [N]                                                            | 1.220                                                                                                                        | 24-8-2020                     | Bouw Technologie RDA BV   |
| Embedment test<br>Ring Nails -common                                                                                                           | EN 383                  | [N]                                                            | 640                                                                                                                          | 19-10-2020                    | Bouw Technologie RDA BV   |
| Fire classification<br>Brandklasse                                                                                                             | EN 13501-1:2007+A1:2009 | class<br>Klasse                                                | A1                                                                                                                           | 28-10-1959                    | Intertek                  |
| Dangerous goods<br>Gefährliche Stoffe                                                                                                          | EU Reach 1907/2006      | SVHD's in Chemical List                                        | not detected                                                                                                                 | 28-10-2024                    | Intertek                  |
| Chloride Content<br>Chloride Gehalt                                                                                                            | ASTM C871-11e1          | mg/g                                                           | 1156.5                                                                                                                       | 1-10-2022                     | 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     | 30% to 90%                                                     | Length / Länge: 0,09%<br>Widht /Quer: 0,09%                                                                                  | 28-10-2024                    | Intertek                  |
| Dimensional changes<br>Maßhaltigkeit                                                                                                           | EN 318:2002             | mm/m                                                           | Length:<br>RV 65 naar 85: 0,4 mm/m<br>RV 65 naar 30: -0,6 mm/m                                                               | 4-1-2022                      | SGS                       |
| in length / längs                                                                                                                              |                         | mm/m                                                           | Thickness:<br>RV 65 naar 85: 0,4mm/m<br>RV 65 naar 30: -0,6mm/m                                                              |                               |                           |
| in thickness / Dicke                                                                                                                           |                         | %                                                              | 20C, RV 65% naar RV30%:<br>10,6%<br>20C, RV van 65% naar 85%:<br>18,8%                                                       |                               |                           |
| moisture content / Feuchtegehalt                                                                                                               |                         |                                                                |                                                                                                                              |                               |                           |
| Apparent density<br>Rohdichte                                                                                                                  | EN 12467:2012           | kg/m <sup>3</sup>                                              | 1037                                                                                                                         | 17-12-2021                    | SGS                       |
| Water Vapor resistance factor<br>Wasserdampfwiderstandsfaktor                                                                                  | EN ISO 12572:2016       | mu                                                             | 170,7, Category B                                                                                                            | 17-1-2022                     | SGS                       |
| Water impermeability<br>Wasserundurchlässigkeit                                                                                                | EN 12467:2012           | 24h Test                                                       | Traces of moisture on the<br>bottom side. No drops.<br>Feuchtigkeitsspuren auf der<br>Plattenunterseite. Keine<br>Tröpfchen. | 17-12-2021                    | SGS                       |
| Klimat, Hitze / Regen<br>Climate, Heat / Rain                                                                                                  | EN 12467:2018           | 50 Cycles, category B                                          | Passed                                                                                                                       | 28-10-2024                    | Intertek                  |
| Klimat, Freeze/Thaw<br>Frier / Dooi                                                                                                            | EN 12467:2018           | 25 Cycles, category B                                          | Passed, R=0,78                                                                                                               | 28-10-1959                    | Intertek                  |
| Klimat, Soak Dry<br>Climate, Soak /Dry                                                                                                         | EN 12467:2018           | 25 Cycles, category B                                          | Failed, R=0,69                                                                                                               | 28-10-1959                    | Intertek                  |
| Moisture content / Feuchtegehalt                                                                                                               | EN 322:1993             | %                                                              | 16,9                                                                                                                         | 17-12-2021                    | SGS                       |
| Thermal conductivity / Wärmeleitfähigkeit                                                                                                      | EN 12667:2001           | [W/(m.K)]                                                      | 0,213                                                                                                                        | 11-12-2015                    | SGS                       |
| Lineair Thermal Expansion Coefficient, 75C/23C, 16hrs<br>Lineiare Thermische Expansionskoeffizient, 75C/23, 16<br>Stunden                      | ASTM C531-00, 2012      | 10-6, C                                                        | -79,3                                                                                                                        | 17-12-2021                    | SGS                       |
| Resistance to nail head pull-through<br>Nagelkopfdurchzugswiderstand                                                                           | ASTM D1037-12           | (N)                                                            | 394,5                                                                                                                        | 15-12-2015                    | SGS                       |
| 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 (mm)<br>Eindrücktiefe (in mm)                | 0,14                                                                                                                         | 26-1-2016                     | SGS                       |
|                                                                                                                                                |                         |                                                                |                                                                                                                              |                               |                           |
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