



U SeaProtect Slab 50 G220



Slabs glass cloth faced 220 g/ m² - Density 50 kg/m³

ULTIMATE mineral wool provides a unique high-performance profile : It combines safety, comfort and ease of handling.



FIRE RESISTANCE

ULTIMATE provides effective fire resistance, but also very good performance in reaction to fire.



THERMAL INSULATION

Excellent thermal insulation combined with unique efficiency.



SOUND ABSORPTION

Improved acoustic comfort due to its excellent sound absorption and sound insulation properties.



LIGHTWEIGHT

Increase insulation - reduce weight. ULTIMATE combines high fire & thermal performance with very low weight.

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| CHARACTERISTIC | SYMBOL | UNIT | QUANTITIES AND DECLARED VALUES | | | | | | | STANDARD |
|----------------------|-----------------|-----------|--|-------|-------|-------|-------|-------|-------|----------|
| Thermal conductivity | T | [°C] | 10 | 50 | 100 | 150 | 200 | 300 | 400 | EN 14706 |
| | $\lambda_{N,R}$ | [W/(m·K)] | 0.031 | 0.036 | 0,042 | 0,050 | 0,059 | 0,080 | 0,109 | |
| Thermal behaviour | T | [°C] | ≤ 650 by pure thermal stress (U SeaProtect Slab 40 - 90) The thickness of the insulating layer has to be correctly dimensioned so that the faced side is exposed to a maximum of 100 °C. From 150 °C on the binder starts to volatilise. | | | | | | | EN 14706 |

| CHARACTERISTIC | SYMBOL | UNIT | QUANTITIES AND DECLARED VALUES | VALUES | STANDARD |
|----------------------|----------|--------------------------|--------------------------------|---------|--------------|
| Air flow resistivity | σ | [KPa· s/m ²] | Density 50 kg/m ³ | [40-60] | DIN EN 29053 |

| CHARACTERISTIC | SYMBOL | UNIT | QUANTITIES AND DECLARED VALUES | STANDARD |
|--|----------|-----------|---|--|
| Specific thermal capacity | c | kJ/(kg·K) | 1.00 | ISO 10456 |
| Reaction to fire | - | - | Melting point according to DIN 4102, part 17: 1000 °C. Non-combustible according to IMO-Resolution MSC.61(67)-(FTP-Code), IMO MSC/Circ. 1120. Surface materials with low flame-spread characteristics. Homologated for shipbuilding. | RESOLUTION MSC.307(88) (2010 FTP CODE) |
| Application field | - | - | Thermal, acoustic insulation and fire protection constructions in shipbuilding. Approved for A-Class steel constructions. | - |
| Material | - | - | Mineral wool with quality mark RAL by the Gütegemeinschaft Mineralwolle. V., unriskey regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to guideline EU97/69 Nota Q. | - |
| Facing | - | - | Faced on one side with black glass fabric weighing 120 g/m ² . | - |
| Water vapour diffusion resistance factor | μ | - | - 1.0 | - |
| Thermal coefficient of expansion | α | 1/K | No change in dimensions within the application field. | - |
| Quality management | - | - | Certified according to DIN EN ISO 9001 and DIN EN ISO 14001. | EN ISO 9001 EN ISO 14001 |
| Type approval certificates | | | EC-Type Examination MED-B (Non Combustibility): 114477-05 exp. 08/03/2028 EC-Type Examination MED-B (Low Flame Spread): 118168-04 exp. 22/10/2028 QAS MED-D Certificate: SEE0736Q0000108 exp. 19/05/2027 | |

DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION*

| THICKNESS D [MM] | LENGTH [MM] | WIDTH B [MM] |
|------------------|-------------|--------------|
| 25 | 1200 | 625 |
| 30 | 1200 | 625 |
| 50 | 1200 | 625 |
| 60 | 1200 | 625 |

* On some products, minimum order quantities are requested.

** Further dimensions on request.



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