



## U SeaProtect Slab 36 B-AI

### Slabs with an alu-coated glass fabric, alu side outside – Density 36 kg/m<sup>3</sup>

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   | DIN EN 12667 |
|                      | $\lambda_{NR}$ | [W/(m·K)] | 0.032  | 0.037 | 0.045 | 0.055 | 0.069 | 0.104 | 0.153 |              |
| Thermal behaviour    | T              | [°C]      | ≤ 650 by pure thermal stress (U SeaProtect Slab 40 - 100) ≤ 550 by pure thermal stress (U SeaProtect Slab 24 - 40) U SeaProtect Slab: 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 |       |       |       |       |       |       | AGI Q 132    |

| CHARACTERISTIC         | SYMBOL     | UNIT | THICKNESS | VALUES | STANDARD |
|------------------------|------------|------|-----------|--------|----------|
| Sound absorption value | $\alpha_w$ | -    | 70 mm     | 0.40   | -        |

| CHARACTERISTIC       | SYMBOL   | UNIT                    | QUANTITIES AND DECLARED VALUES | VALUES | STANDARD     |
|----------------------|----------|-------------------------|--------------------------------|--------|--------------|
| Air flow resistivity | $\sigma$ | [KPa·s/m <sup>2</sup> ] | Density 36 kg/m <sup>3</sup>   | 30     | 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: $\geq 1000^\circ\text{C}$ .<br>Non combustible according to IMO-Resolution MSC.61(67)-(FTP-Code), IMO MSC/Circ. 1120.<br>Homologated for shipbuilding according to EC Type Examination Certificate Nr.: 114.542<br>U SeaProtect Slab 90: certified construction for A 60 (floating floor) 100.185; top-layer only according to static calculation | DIN 4102<br>IMO             |
| Chemical behaviour               | -        | -         | Sulphide free<br>Low chloride content on demand. Water repellent content on demand  | AGI Q 132                   |
| Application field                | -        | -         | Thermal insulation, acoustic insulation and fire protection constructions in shipbuilding   | -                           |
| Material                         | -        | -         | Mineral wool with quality mark RAL by the Gütegemeinschaft Mineralwolle e.V., unriskey regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to guideline EU 97/69 Nota Q.  | -                           |
| Facing                           | -        | -         | U SeaProtect Slab B-AI 20 - 120: alu-coated glass fabric, with aluminium side outside   | -                           |
| Thermal coefficient of expansion | $\alpha$ | 1/K       | No change in dimensions within the application field.   | -                           |
| Instructions for transformation  | -        | -         | Can be cut and punched.<br>Due to the differentiation of density optimal delivery forms are possible for each application field.  | -                           |
| Instructions for use             | -        | -         | Can be cut and punched<br>Due to the differentiation of density optimal delivery forms are possible for each application field  | -                           |
| Quality management               | -        | -         | ISOVER is certified according to DIN EN ISO 9001 and DIN EN ISO 14001   | EN ISO 9001<br>EN ISO 14001 |

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## DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION\*

| THICKNESS D [MM] | WIDTH B [MM] | LENGTH [MM] |
|------------------|--------------|-------------|
| 100              | 625          | 1200        |
| 30               | 625          | 1200        |
| 40               | 625          | 1200        |
| 50               | 625          | 1200        |
| 60               | 625          | 1200        |
| 70               | 625          | 1200        |
| 80               | 625          | 1200        |

\* On some products, minimum order quantities are requested.

\*\* Further dimensions on request.



### [www.isover-technical-insulation.com](http://www.isover-technical-insulation.com)

*The technical information corresponds to our present state of knowledge and experience at the date of printing (see imprint). But no legal guarantee can be given, unless it has been explicitly agreed. The state of experience and knowledge is developing continuously. Please see to it that you always use the latest edition of this information. The described product applications do not take special circumstances in consideration. Please verify whether our products are appropriate for the concrete application. For further information please contact our Isover sales offices. We deliver only according to our terms of trade and terms of delivery.*

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