



U SeaProtect Slab 90 Alu1

Slabs aluminium faced – Density 90 kg/m³

ULTIMATE U SeaProtect 90 Alu1 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 |
| | λ_{NR} | [W/(m•K)] | 0.031 | 0.035 | 0.040 | 0.046 | 0.054 | 0.070 | 0.091 | |
| Thermal behaviour | T | [°C] | ≤ 650 by pure thermal stress (U SeaProtect Slab 40 - 120) ≤ 550 by pure thermal stress (U SeaProtect Slab 24 - 40) U SeaProtect Slab Alu1: 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 | α_w | - | 50 mm | 0.95 | DIN EN 29053 |

| CHARACTERISTIC | SYMBOL | UNIT | QUANTITIES AND DECLARED VALUES | VALUES | STANDARD |
|----------------------|----------|--------------------------|--------------------------------|--------|--------------|
| Air flow resistivity | σ | [KPa• s/m ²] | Density 90 kg/m ³ | 100 | 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. Homologated for shipbuilding according to EC Type Examination Certificate Nr.: 114.483 | DIN 4102 IMO |
| Chemical behaviour | - | - | Sulphide free Low chloride content on demand Water repellent content on demand | - |
| 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 | - | - | One-sided faced with reinforced aluminium foil | - |
| Water vapour diffusion resistance factor | μ | - | - 1.0 | EN 12086 |
| Thermal coefficient of expansion | α | 1/K | No change in dimensions within the application field. | - |
| Dynamic Stiffness | s' | M•N/m ³ | ≤ 7 | - |
| Instructions for transformation | - | - | Can be cut and punched. Due to the differentiation of density, optimal delivery forms are possible for each application field. | - |
| Density | | kg/m ³ | 67 | |
| Quality management | - | - | ISOVER is 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): 118147-06 exp. 24/01/2029 QAS MED-D Certificate: SEE0736Q0000108 exp. 19/05/2027 | |

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DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION*

| THICKNESS D [MM] | WIDTH B [MM] | LENGTH [MM] |
|------------------|--------------|-------------|
| 30 | 1200 | 600 |
| 40 | 1200 | 600 |
| 50 | 1200 | 600 |
| 60 | 1200 | 600 |

* On some products, minimum order quantities are requested.

** Further dimensions on request.



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.

SAINT-GOBAIN ISOVER · Tour Saint-Gobain 12 place de l'Iris 92096 La Défense cedex - France

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