

ThermaSmart® Marine 2.0 Black Sheet

Thermal Insulation by Thermaflex®

Thermal halogen free sheet insulation product made of direct extruded, closed-cell high quality polyolefin foam with aluminum black foil

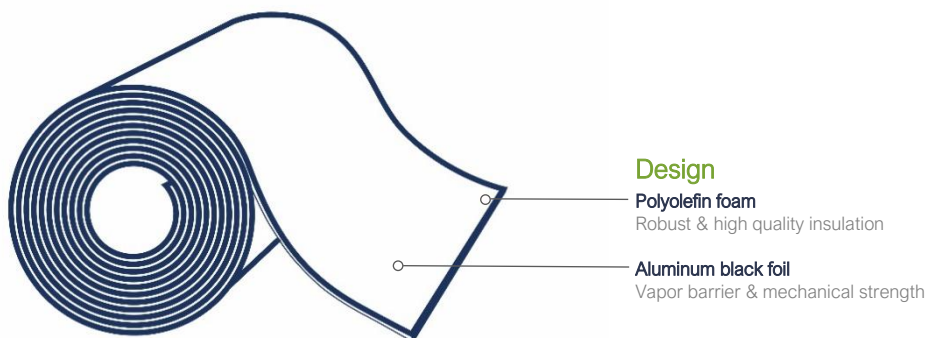


Benefits

- Consistent performance with aluminum vapor barrier
- Excellent fire rating
- High emission factor
- Halogen Free product

Applications

- Airconditioning, cooling and refrigeration
- Indoor and outdoor installation – UV protective layer
- Pipe systems, chillers, fan & coils, air handlers and tanks



V1.7 - 30.03.2022

Disclaimer

All recommendations and information provided on this data sheet are based on our knowledge and experience. Product specifications are intended as guidelines. Since conditions of service are beyond our control, users must satisfy themselves that products are suitable for the intended use. No guarantee or warranty is given or implied or that any use of products will not infringe rights belonging to other parties. We reserve the right to change product design and properties without notification.



Technical Properties

| Properties | Units SI | Values | Testing method |
|------------------------------------|-------------------|--|---|
| Physical properties | | | |
| Dimensional tolerances | - | Coherent | EN 14313 |
| Density (foam) | kg/m ³ | ≤ 45 | - |
| Foam structure | - | Fine, closed-cells | - |
| Color | - | Foam: dark grey Aluminum layer: black | - |
| Thermal properties | | | |
| Service temperature range | °C | -80 to +95 | EN 14706 |
| Maximum service temperature | °C | +95 | EN 14707 |
| Thermal conductivity (λ) | W/m·K | 0.038 @ 40°C | EN 12664 |
| Fire properties | | | |
| Fire rating IMO | - | Pass Pass | IMO 2010 FTP Code Annex 1 Part 5 Part 2 (not required TA/MED) |
| Approvals | - | - | Lloyds Register Bureau Veritas DNV-GL Rina |
| Water resistance properties | | | |
| Water vapor diffusion | μ | > 10.000 | EN 12086 |
| Water absorption | kg/m ² | 0.05 | EN 1609 |

Availability

- Standard Rolls, width 1000mm (990-1010mm)

| Item Code | Wall thickness [mm] | Content [m ²] | Measures |
|------------------------------------|---------------------|---------------------------|-----------------|
| Long rolls, Width = 1000mm | | | |
| 3205-010100-070 | 10 (8.5-11,5) | 104 | 1m x 104m roll* |
| 3205-013100-070 | 13 (11.0-15.0) | 78 | 1m x 78m roll* |
| 3205-019100-070 | 19 (17.0-21.0) | 52 | 1m x 52m roll* |
| 3205-025100-070 | 25 (23.0-27.0) | 39 | 1m x 39m roll* |
| Short rolls, Width = 1000mm | | | |
| 3205-010100-270 | 10 (8.5-11,5) | 10 | 1m x 10m roll* |
| 3205-013100-270 | 13 (11.0-15.0) | 8 | 1m x 8m roll* |
| 3205-019100-270 | 19 (17.0-21.0) | 6 | 1m x 6m roll* |
| 3205-025100-270 | 25 (23.0-27.0) | 4 | 1m x 4m roll* |

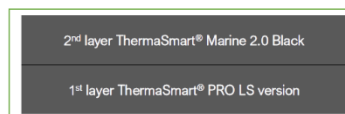
Above 25 till 50 mm multi-layer application

* Roll may consist of 2 pieces with the total roll length as declared in the table with 1 extra meter as compensation.

Application thickness 50 mm

- Applications may requires larger thickness which can and should be done in 2 layers:

1st layer ThermaSmart® PRO LS version
2nd layer ThermaSmart® Marine 2.0 Black



- Combinations of all wall thicknesses from the range can be used for this with the remark that the total wall thickness doesn't exceed the maximum allowed 50 mm
- After installing the 2nd layer of ThermaSmart® Marine 2.0 Black, all seams longitudinally as well as front side connections must be covered with self-adhesive ThermaSmart® Marine 2.0 Black Tape with a minimum width of 50 mm