



Hydroflam

Fire-retardant and moisture-resistant construction board for structural applications

Hydroflam is an MUF-glued, fire-retardant chipboard that is extremely well suited to structural applications in damp spaces. The board only displays minimal expansion and swelling under the influence of high atmospheric humidity. Hydroflam has powerful fire-retardant characteristics (European classification B-s2, d0). Fires in the board go out by themselves and do not continue to glow after the source of heat has been taken away. What is more, Hydroflam retains its mechanical strength for a long time in situations involving fire. Hydroflam can be applied in both service class 1 and 2 (limited temperature and atmospheric humidity) and is suitable for biological hazard classes 1 and 2 of EN Standard 335-3. Protection against direct contact with water is required.

Applications

- Floors
- Walls
- Roofs
- Interior

Characteristics



Product class P5



Structural applications



Fire retardant B-s2,d0



Moisture-resistant



Tongue-and-groove joints (optional)



Hydroflam

Applications

Hydroflam is suitable as a structural board in applications where low reactivity to fire and flame spread are important (roofs, walls, stairwells, exit routes, lift shafts, corridors etc.) and where a higher resistance to fire is required (fire doors, fire walls etc.).

Use the recommended tools when sawing, milling or drilling Hydroflam boards.

Fire-retardant products may cause deposits on tools and shorten service life. Consult the UNILIN construction manual with detailed instructions for use and characteristic metrics at www.unilinpanels.com.

Technical specifications

| General characteristics + Standard | Unit | Average values | | | | |
|--|-------------------|------------------------|------|------|------|------|
| Thickness EN 324-1 | mm | 10 | 12 | 16 | 18 | 19 |
| Moisture level EN 322 | % | 6-10 | 6-10 | 6-10 | 6-10 | 6-10 |
| Technical characteristics + Standard | | 5/95 percentile values | | | | |
| Bending strength EN 310 | N/mm ² | 18 | 18 | 16 | 16 | 16 |
| Internal bond EN 319 | N/mm ² | 0,45 | 0,45 | 0,45 | 0,45 | 0,45 |
| Bending stiffness EN 310 | N/mm ² | 2550 | 2550 | 2400 | 2400 | 2400 |
| Swelling/24h EN 317 | % | 13 | 11 | 10 | 10 | 10 |
| Internal bond after cyclic test EN 321-1 | N/mm ² | 0,25 | 0,25 | 0,22 | 0,22 | 0,22 |
| Swelling after cyclic test EN 321-1 | % | 12 | 12 | 12 | 12 | 12 |
| Reaction to fire EN 13501-1 | | B-s2, d0 | | | | |

Hydroflam meets the general requirements and comes under formaldehyde emission class E1 as described in Table 1 of EN Standard 312.

Available dimensions and thicknesses

Hydroflam is available from stock in various thicknesses and dimensions. Consult the complete UNILIN Panels stock range at www.unilinpanels.com.

For our technical capabilities on custom thicknesses and dimensions, as well as minimum order requirements, please contact our sales team or email info.panels@unilin.com.

Certificates

UNILIN Division Panels is actively committed to sustainable forest management. Hydroflam is available on demand with PEFC and FSC® labelling.

