TECHNICAL DATA SHEET – TECHNOWALL WALL CLADDING SYSTEM by ALSANIT

Type: Modular system with suspended panels (HPL/MFC)
Manufacturer: Alsanit sp. Z o. o. ul. Wieleńska 2, 64-980 Trzcianka
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1. SYSTEM DESCRIPTION

- System type: Ventilated, floating wall cladding on a frame.
- System components:
  - Perforated metal profiles (galvanized steel/aluminum),
  - Hangers or mounting brackets (galvanized steel),
  - Cladding panels made of:
    - HPL boards, thickness 10–12 mm (EN 438-3; EN 438-5),
    - MFC boards, thickness 18 mm (EN 14322).
- Installation: Suspended system (no permanent connection to the profile), allowing easy panel replacement.

2. DIMENSIONS AND CONSTRUCTION

Element	Material	Typical dimensions	Remarks
Support profile	Steel + aluminum	20×40 mm (or other)	Perforated for hangers
HPL panel	HPL	600×1200 mm (or other)	Thickness: 10–12 mm
MFC panel	MFC	600×1200 mm (or other)	Thickness: 18 mm, ABS edging
Hangers	Galvanized steel	Depending on system	Adjustable, with locking mechanism

3. TECHNICAL PROPERTIES OF PANELS

Parameter	HPL	MFC
Fire reaction class	B-s1,d0 (or A2)	D-s1, d0
Scratch resistance	High	Medium
Moisture resistance	Very good	Limited
Impact resistance	High	Good
Formaldehyde emission	E1 or E0,5	E1
Durability	> 25 years	10–15 years

4. INSTALLATION CONDITIONS

- Install on a stable substrate (reinforced concrete, brick, gypsum board, etc.).
- Minimum expansion gap between panels: 3–5 mm.
- Maximum gap between top panels: 100 mm.
- Permissible flatness deviation of the substrate: ±3 mm/2 m.
- Installation temperature: +5°C to +35°C.
- Panels installed without tools – suspended on support profiles with a hidden locking system.

5. STANDARDS AND COMPLIANCE

- EN 438 (HPL),
- EN 14322 (MFC),
- EN 13501-1 (fire classification),
- ISO 4892-2 (UV resistance, if applicable),
- CE / ETA Declaration (if available).

6. MAINTENANCE AND USAGE

- Cleaning: With a soft cloth and mild detergent.
- Avoid: Abrasive agents, strong acids, and bases.
- Panel replacement: Possible without dismantling the entire system.
- Recommended relative humidity: 30–70%.

7. ENVIRONMENTAL INFORMATION

- VOC emissions: Low / compliant with E1.
- Recycling: Metal elements and HPL/MFC panels are recyclable.
- Optionally: EPD or other environmental certificates (LEED, BREEAM – if available).

8. ADDITIONAL NOTES

- The system can be custom-designed to size.
- Possibility of acoustic perforation of HPL panels and engraving patterns.
- Possibility of using RAL color palette or wood-like decors.