

TECHNICAL DATA SHEET

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TYCROC FXL & FXW GROOVED CONSTRUCTION BOARDS

PRODUCT IDENTIFICATION

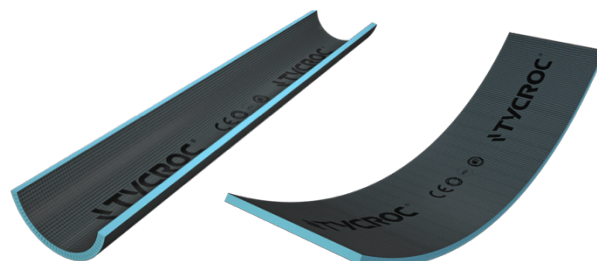
Product name: Tycroc® FXL or FXW

Product type: waterproof grooved construction board

PRODUCT DESCRIPTION

Both FXL and FXW boards are essentially Tycroc TWP boards into which grooves have been additionally cut on one side to allow the boards to be bent in the direction of the grooves.

The range includes Tycroc FXL with longitudinal grooves and Tycroc FXW with transverse grooves. It is also possible to cut additional grooves yourself to achieve either a smaller possible radius or, for example, curvature in both directions.



APPLICATIONS

Tycroc grooved construction boards are the ideal solution for constructing curved shower enclosures, curved steam room ceilings, walls or benches. The grooves inside the board are specifically designed to allow various curved surfaces to be built. The grooves do not cut all the way through the board – all the excellent hydrophobic properties of Tycroc TWP boards therefore remain, and the grooved boards continue to be waterproof without requiring additional waterproofing.

ARTICLES	DIMENSIONS
FXL20	20 × 600 × 2500 mm
FXL30	30 × 600 × 2500 mm
FXL50	50 × 600 × 2500 mm
FXW20	20 × 600 × 2500 mm
FXW30	30 × 600 × 2500 mm
FXW50	50 × 600 × 2500 mm

MATERIAL COMPOSITION

Core: extruded polystyrene foam (XPS)

Surface layers: polymer cement mortar with fibreglass mesh reinforcement

Pind: finish-ready

STORAGE AND HANDLING

There are no special storage requirements; however, boards must not be stored on edge, as this may cause damage (e.g. chipping of corners or edges). Boards must not be leaned diagonally against a wall, as this may cause bowing. Prolonged exposure to UV radiation must be avoided.

INSTALLATION

Boards can be fixed mechanically or bonded to suitable substrates. Corners and joints must be sealed with Tycroc Premium Fix adhesive sealant. For detailed instructions, refer to the Tycroc FXL & FXW grooved construction board installation guide.

HEALTH, SAFETY AND ENVIRONMENT

- Does not contain hazardous fibres
- Standard construction site handling and safety requirements apply
- Waste must be handled in accordance with local requirements

CERTIFICATES AND COMPLIANCE

- Harmonised standard: EN 13164:2012+A1:2015
- Environmental Product Declaration (EPD): in accordance with EN 15804+A2 and ISO 14025
- Finnish M1 emission class certificate
- Eurofins certificate
- Sintef certificate



TECHNICAL SPECIFICATIONS

Parameter	Value	Standard
Water resistance	Passed	EN 14891 (150 kPa / 7 days) and water column 100 mm / 14 days
Long-term water absorption by total immersion	< 1,2 vol. %	EN 12078:2013
Water vapour permeability (W):		EN 12086
20 mm board	$160 \times 10^{-12} \text{ kg}/(\text{m}^2 \cdot \text{s} \cdot \text{Pa})$ Sd = 1,2 m	
30 mm board	$110 \times 10^{-12} \text{ kg}/(\text{m}^2 \cdot \text{s} \cdot \text{Pa})$ Sd = 1,8 m	
50 mm board	$65 \times 10^{-12} \text{ kg}/(\text{m}^2 \cdot \text{s} \cdot \text{Pa})$ Sd = 3,0 m	
Watertightness at penetrations	Passed	ETAG 022 Annex A and F
Joint bridging capability	Passed	ETAG 022 Annex A and F
Water vapour diffusion resistance factor (μ)	100	EN 12086
Density	36,9 kg/m ³	EN 13164
Compressive strength at 10% deformation	$\geq 300 \text{ kPa}$; CS(10)300	EN 826:2013
Tensile strength	400 kPa	EN 1607:2013
Thermal conductivity (λ_D)	0,036 W/(m·K)	EN 13164:2012+A1:2015
Capillarity	0	
Sound insulation index (Rw)	21 dB	ISO 717
Service temperature range	-50 °C / +75 °C	
Reaction to fire	class E	EN 13501-1:2018-12
Tolerances: pikkuse, laiuse, paksuse, squareness, flatness	L(2), W(2), T(3), S(1), P(3)	EN 822:2013, EN 823:2013, EN 824:2013, EN 825:2013

LEGAL NOTICE

The information provided in this technical data sheet is based on knowledge and testing available at the time of preparation and is intended as general guidance only. Installation must be carried out in accordance with the manufacturer's instructions and applicable building regulations. Tycroc OÜ reserves the right to modify product specifications without prior notice.