

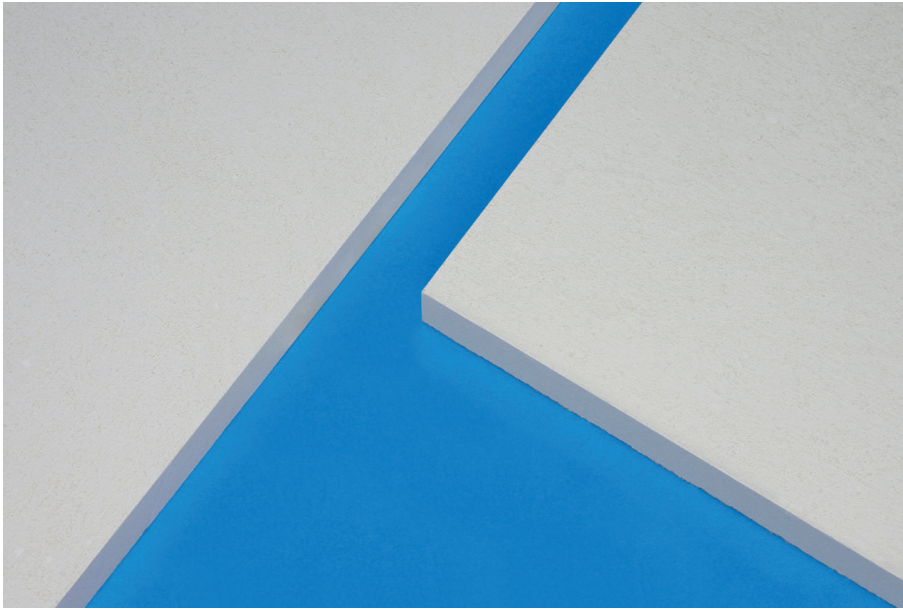
Promat

PROMATECT® TF-X
Matrix Engineered Mineral Board

www.promat-tunnel.com

with **FiBeCoP**
TECHNOLOGY





Introduction

PROMATECT® TF-X is the latest addition to the PROMATECT® family of high-performance tunnel boards.

This new generation of board is produced using FiBeCop™ technology, a new and exclusive manufacturing process that allows production of monolithic homogenous Calcium Silicate boards with thickness up to 40mm.

FiBeCop™ produced boards can guarantee stable performance under the most extreme conditions and in most cases only require single layer installation where previously double layers would have been applicable. This leads to a series of time and cost saving benefits.

Advantages

- Best in class Freeze/Thaw performance
- Excellent thermal performance
- Unique design flexibility
- Single layer application
- Extremely low thermal shrinkage eliminates the need for backer strips behind joints
- No harmful Magnesium Oxy-Chlorides in the formulation
- Can be used under the most extreme conditions: ETA Category X. EN12467 Category A Compliant.

Applications

- Tunnel lining
- M&E services enclosure
- Access panels & hatches, fire doors

Quality assurance

Promat products are manufactured to stringent quality control systems to assure that our customers receive materials made to the highest standards. Operating to these standards means that all activities, which have a bearing upon quality, are set out in written procedures. Systematic and thorough checks are made on all materials and their usage. Test equipment is subjected to regular checks and is referred back to national standards.

The information given in this data sheet is based on actual tests and is believed to be typical of the product. No guarantee of results is implied however, since conditions of use are beyond our control.

Another "Fix and Forget" system from Promat.

Simple and easy to install in new tunnels and can be applied within existing tunnels without the need to completely close off all traffic lanes.

Fire protection

Designed to provide protection solutions for use within the most severe fire scenarios including RWS and the latest M.O.A.C Time/Temperature Curve.

Fire protection thickness requirements are often defined in the owner operator's performance specification or local standards for example: NFPA®502. Alternatively, please consult a member of the Promat Tunnel Team.

General technical data

Product generic description	PROMATECT® TF-X is a non-combustible, fire resisting matrix engineered mineral board, not sensitive to moisture.	
Designation	Matrix Engineered Mineral Board for Fire Protection and High Temperature Insulation	
Reaction to fire	Non-combustible	EN 13051-1: A1
Board format (length x width)	mm	2500 x 1250, 3000 x 1250
Tolerances on length and width, EN12467	mm	± 3.0
Board thickness, EN12467	mm	20.0 - 40.0
Tolerances on thickness, EN12467	mm	± 1.5 double side sanded
Density (nominal, oven dry, 105°C, EN12467)	kg/m³	950 ± 10%
Alkalinity	pH	ca 12
Thermal conductivity λ (20°C), ASTM C518-75	W/m²K	ca 0.2
Coefficient of expansion α (20 - 100°C)	m/m²K	ca 7.5 x 10 ⁻⁶
Thermal shrinkage, length and width, EN826	3 hrs 950°C 3 hrs 1250°C	ca 1.6% ca 4%
Moisture movement, EN318, ambient to saturated	%	ca 0.2%
Typical moisture content, air dry at 20°C and 65% relative humidity	%	ca 5
Water vapor transmission coefficient, ISO 12572		ca 3.5
Freeze Thaw resistance, EN 12467		>100 cyc., category A
Surface conditions	Front and back face: smooth, sanded Colour: off-white	
Storage	Store on flat surface, in a dry area.	

All physical and mechanical property values are averages based on standard production. The figures can change dependent on the test methods used. If a particular value is of prime importance for a specification, please contact Promat International.

Mechanical properties

Bending strength (longitudinal direction)	N/mm ²	ca 8.0
Compressive strength, EN789	N/mm ²	ca 12

Board weights for 2500mm x 1250mm board (kg/m²)

Thickness (mm)	Average Dry Weight	Average Weight (20°C, 65% RH)
20mm	19.0 kg/m ²	20.0 kg/m ²
25mm	23.8 kg/m ²	24.9 kg/m ²
30mm	28.5 kg/m ²	29.9 kg/m ²
35mm	33.3 kg/m ²	34.9 kg/m ²
40mm	38.0 kg/m ²	39.9 kg/m ²

Waste disposal

Refer to local legislation

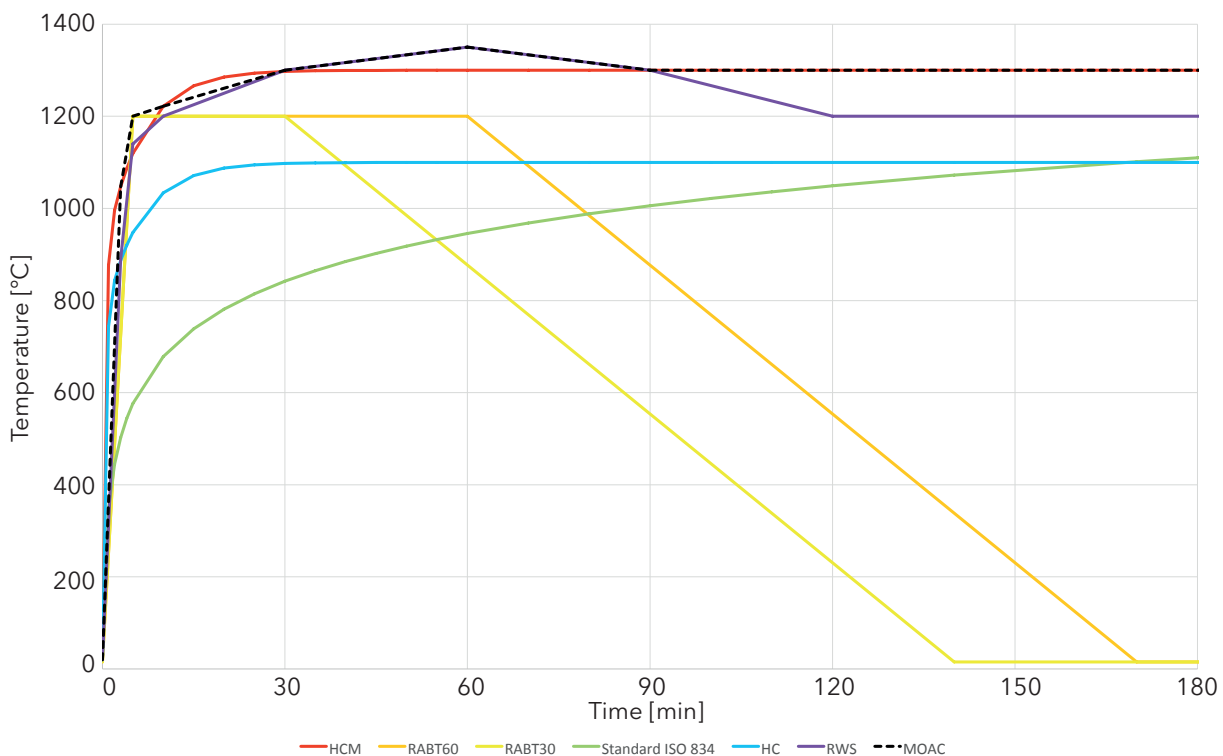
If not available: The board is not classified as a dangerous substance and no special provisions are required regarding the carriage and disposal of the product to landfill. They can be placed in an on-site skip with other general building waste.

Processing & machining

When machining the product with power tools, do not breathe dust and respect the regulatory occupational exposure limits for total inhalable and respirable dust. Wear safety goggles. Avoid contact with skin and eyes. Use dust extraction. In case of insufficient ventilation, wear suitable respiratory equipment to avoid health effects. For more information: request Safety Data Sheet..

Types of fire exposure

Fire Curves



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