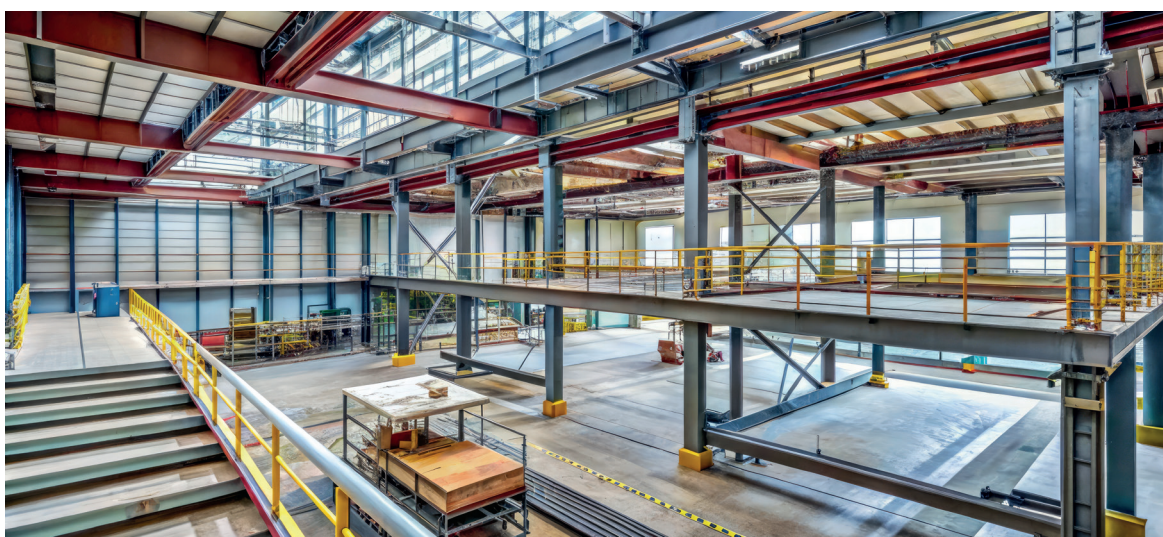


MEZZANINE FIRE PROTECTION WITHOUT COMPROMISE



PROMATECT[®]-XS is a fully EN tested and classified solution for mezzanine floors that maximises space and storage capacity.



- 60-minute fire resistance
- Third Party EN tested and classified
- Direct fix to joists to maximise space

- Functions as a loadbearing system
- A quick installation solution
- Can be installed in unheated spaces without deteriorating
- A1 non-combustible board with a smooth surface which can be left unfinished



Scan here to get in touch
and to download full
technical details.

APPLICATIONS

For Mezzanine floor systems where up to 60 minutes fire resistance is required.

¹Reference ETA 18/0645 and manufacturing data. All physical property values are averages based on standard production. As our products are subject to continuous improvement, for current details of the product properties and system applications, please visit our [PROMATECT[®]-XS](#) product page on our website.

PROMATECT[®]-XS in use



PROMATECT[®]-XS IS AN A1 NON-COMBUSTIBLE BOARD, FOR MEZZANINE FLOOR SYSTEMS WITH FIRE RESISTANCE OF UP TO 60 MINUTES, AND CAN BE INSTALLED IN UNHEATED SPACES WITHOUT DETERIORATING.

PROMATECT[®]-XS offers a quick installation providing 60 minutes fire resistance for lightweight mezzanine floor constructions. The board is moisture resistant, allowing installation in unheated spaces and has a smooth, impact resistant surface. The board can be left undecorated or easily finished with paints. The boards have a mineral composition without any volatile organic chemical used as additives during the manufacture.

TABLE 1.1. BOARD FORMAT DATA¹

Thickness (mm)	Length x Width (mm)	Edge Format	Approximate Weight (kg/m ²)
15	2500x1200	Square	13.7

TABLE 1.2. MECHANICAL PROPERTIES¹

Flexural strength (Modulus of Rupture)	Average, Dry	N/mm ²	6.4
Tensile strength (Transversal)	Average, Dry	N/mm ²	1.6
Tensile strength (Longitudinal)	Average, Dry	N/mm ²	2.5
Comprehensive strength	Average, Dry	N/mm ²	6.0

TABLE 1.3. GENERAL TECHNICAL DATA¹

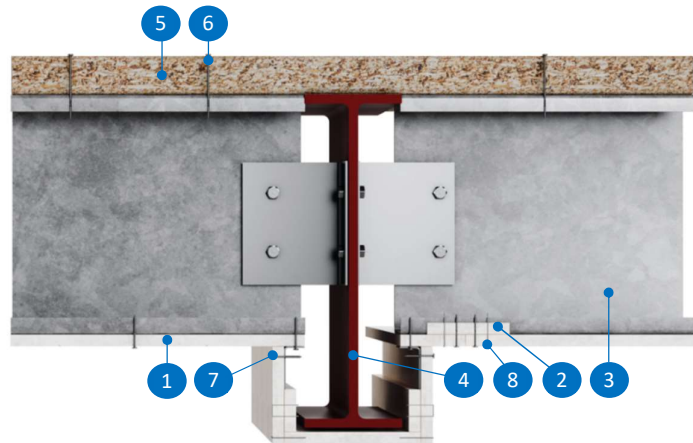
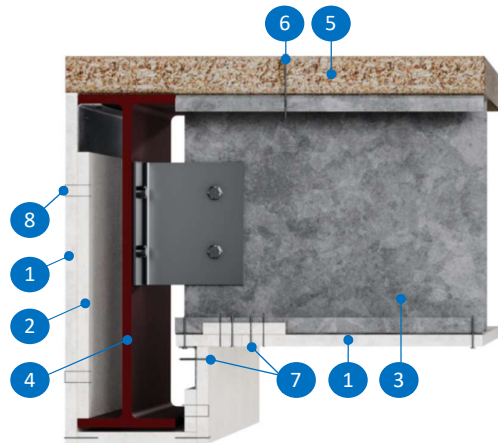
Designation	Fire Protection Board
Reaction to fire (To BS EN 13501-1)	A1 non-combustible
Apparent Density kg/m ³	915
Nominal density at 23°C, 50% RH (average) kg/m ³	950
Thermal conductivity (approximately) at 20°C, W/mK	0.30
Dimensional stability (To BS EN 318)	Dimensionally stable
Thickness tolerance of standard boards (mm)	±0.5
Length x Width tolerance of standard boards (mm)	-5mm / +0mm

The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill. Board off-cuts and waste can be placed in an on-site skip with other general building waste, which should be disposed of by a registered contractor.

A SAFETY INFORMATION SHEET IS AVAILABLE FROM [PROMAT.COM/DOCUMENTATION](#) AND, AS WITH ANY OTHER MATERIALS, SHOULD BE READ BEFORE WORKING WITH THE BOARD.

FIRE PERFORMANCE: REI 60 minutes in accordance with the criteria of BS EN 1363-1:2020 and BS EN 1365-2:2014

CLASSIFICATION REPORT No: EUI-24-B-000673
SPECIFICATION REFERENCE: MZ PXS REI60 001S



SUPPORTING STEEL FRAME

The supporting steel framework of the mezzanine floor (including the columns) should be fire protected for a period equal to, or greater than that required for the mezzanine floor itself. This may normally be achieved using 15mm Promatect®-XS for section factors up to 200m^{-1} for 60 minutes. For full details of the mezzanine floor system and for the requirements for protecting structural steelwork, please contact Promat Technical Services department.

COLD ROLLED JOISTS

Galvanised steel channel joists designed in accordance with BS EN 1993-1-1 UK National Annex to Eurocode 3 at maximum 600mm centres for loadings up to 5.0kN/m^2 . Joists minimum 141mm x 54mm x 1.3mm (web x flange x gauge) based on a 3m span. Larger joists for greater spans are permissible, provided that the maximum bending moments and shear forces do not exceed those of the original fire test. Consult the mezzanine joist manufacturer for joist sizes and centres, appropriate to the loading requirements of the mezzanine floor and the span of the joists.

Joists may be inset cleated to the supporting beams (as shown above) to maximise the headroom or designed with top cleats where the joists oversail above the beams.

The lower web of each pair of joists is connected at mid span by a steel threaded rod tie bar, nut, and washers. These are typically M12.

FLOORING

38mm thick x 600mm wide flooring grade P6 Chipboard T&G to both long edges, design to BS EN 1991-1-1 Eurocode 1 for loadings up to 5.0kN/m^2 ; laid perpendicular to the joists and fixed using M5.5 x 60mm Timberdeck winged self-drilling screws at maximum 300mm centres (two per board at each joist location). Board joints to coincide with joists and are to be staggered by minimum 600mm.

CEILING

15mm thick x 2500mm x 1200mm Promat PROMATECT®-XS boards, fastened parallel to the joists (with staggered transverse joints) using M3.5 x 32mm self-drilling screws at maximum 200mm centres.

COVER STRIPS

15mm thick x 120mm wide Promat PROMATECT®-XS cover strips are placed over the transverse joints between the joists, tightly fixed into position with chisel point staple fixings (35mm x 10.5mm x 1.5mm) at maximum 100mm centres.

KEY

1	15mm Promat PROMATECT®-XS Boards	5	Minimum 38mm T&G Flooring Jointed P6 Grade Chipboard
2	15mm x 120mm wide Promat PROMATECT®-XS Coverstrip	6	M5.5 x 60mm timberdeck winged self-drilling screws at maximum 300mm centres
3	Minimum 141mm x 54mm x 1.3mm (web x flange x gauge) channel joists at maximum 600mm centres	7	Minimum M3.5 x 32mm CSK Self Drilling Screws at maximum 200mm centres
4	Primary Structural Steel Frame	8	Chisel Point Staples 35mm x 10.5mm x 1.5mm at maximum 100mm centres



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