

Timber Frame Render Systems Steel Frame Systems Rainscreen Cladding Modular Build Spandrel Panels SIP Panels

















MOULD





# EUROCLASS A1 NON-COMBUSTIBLE BOARD

#### TIMBER FRAME (Rockwool)

STANDARD: BS 476: PART 22: 1987 | TEST DATE: 19<sup>th</sup> JUNE 2015



INSULATION



- 1 9mm Magply
- 2 38mm x 140mm Section
- 3 2 x Layers Rockwool
- 4 15mm Gyroc Fireline

#### TIMBER FRAME (PIR)

STANDARD: BS EN 1364 - 1 2015 | TEST DATE: 19<sup>th</sup> JULY 2016



INSULATION



- 1 9mm Magply
- 2 38mm x 140mm Section
- 3 110mm Polyisocyanurate
- 4 15mm Knauf Fire Panel

# **SPANDREL PANEL (UN-INSULATED)**

STANDARD: BS 476: PART 22: 1987 | TEST DATE: 17th FEBRUARY 2018







- 1 12mm Magply
- 2 100mm Cover Strip
- 3 38mm x 89mm Section
- 4 12mm Magply

## LOAD BEARING WALL

STANDARD: BS EN 1365-1: 2012 | TEST DATE: 13<sup>th</sup> OCTOBER 2016



INSULATION



- 1 9mm Magply
- 2 38mm x 90mm Section
- 3 Knauf Insulation
- 4 9mm Magply

#### **STEEL FRAME PARTITION**

STANDARD: BS EN 1364 - 1 2015 | TEST DATE: 31st MARCH 2017



INSULATION



- 1 9mm Magply
- 2 70mm x 32mm Section
- 3 70mm Mineral Wool
- 4 9mm Magply

#### **SPANDREL PANEL**

STANDARD: BS476 Part 22:1987 Clause 5 | TEST DATE: 17th AUGUST 2017







- 12mm Magply
- 38mm x 89mm Section
- 50mm Cavity
- 38mm x 89mm Section
- 12mm Magply

## LOAD BEARING WALL

STANDARD: BS EN 1365-1: 2012 | TEST DATE: 13th JULY 2018



INSULATION



- 1 12mm Magply
- 2 38mm x 89mm Timber Frame
- 3 90mm Knauf Earthwool
- 4 9mm OSB

#### LOAD BEARING WALL (Light Gauge steel frame)

STANDARD: BS EN 1365 - 1: 2012 | TEST DATE: 26th FEBRUARY 2019







- 1 12mm Magply with 70mm Internal Cover Strip
- 2 100mm LGS Frame
- 3 100mm Rockwool
- 4 12mm Magply

#### **EXTERNAL CLADDING**

STANDARD: EN 13501-1:2007 A1: 2009 | TEST DATE: 14th JUNE 2016



A1 CLASSIFICATION OF REACTION TO FIRE PERFORMANCE



In line with the Building Control Alliance Technical note 18; 'use of Combustible Cladding Materials on residential buildings paragraph 12.7 of AD B2' - use materials of limited combustibility throughout the cladding system.

# Introduction

The Magply Euroclass A1 board can be used as a fire mitigation sheathing board for Timber Frame, Steel Frame, Rainscreen Cladding, SIP Panels, Spandrel Panels and Modular Build.

Magply features a Magnesium Oxide formulation which is manufactured from a production process that ensures a very low chloride content enhancing both stability and durability. Magply carries internationally recognised accreditations confirming the boards' ability to deliver fire integrity, racking strength, impact and pull-out resistance.

| Thickness (mm) | Width (mm) | Length (mm) | Weight<br>per board (Kg) | Surface m <sup>2</sup> |
|----------------|------------|-------------|--------------------------|------------------------|
| 9              | 1200       | 2400        | 28                       | 2.88                   |
|                |            | 2700        | 32                       | 3.24                   |
| 12             | 800        | 1200        | 12                       | 0.96                   |
|                | 1200       | 2400        | 38                       | 2.88                   |





#### Thermal Conductivity 0.19 W/mK

| Fire Classification | Class 0 Euroclass EN13501* A1 (Non-Combustible)         |  |  |
|---------------------|---|--|--|
| Reaction to Fire    | Passed BS EN 1716 Reaction to Fire* Passed              |  |  |
| Appearance          | Solid flat sheet board                                  |  |  |
| Colour & Odour      | White, Odourless Change of State None                   |  |  |
| Vapour Resistance   | Vapour Resistance 0.31 MNs/g (EN ISO 12572*)            |  |  |
| Melting point       | Melting point: 2400°C                                   |  |  |
| Vapour pressure     | EN ISO 12572: 2016 = 0.31 MNs.g-1.                      |  |  |
| Solubility          | Solubility: Insoluble in Water                          |  |  |
| Acoustic            | 9mm Rw 28dB 12mm Rw 29dB 20mm Rw 31dB EN ISO 717-1:2013 |  |  |

# For more information on testing please contact the Magply Technical line: +44 (0)1621 776 252

# Magply

#### **TESTED & CERTIFIED BY**













#### ASSOCIATIONS





#### FOR MORE INFORMATION

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