

5. NON-STRUCTURAL ELEMENTS. WALLS.

Non-structural walls, which separate fire areas, should be fire resistant as stipulated in standard EN 1364-1.

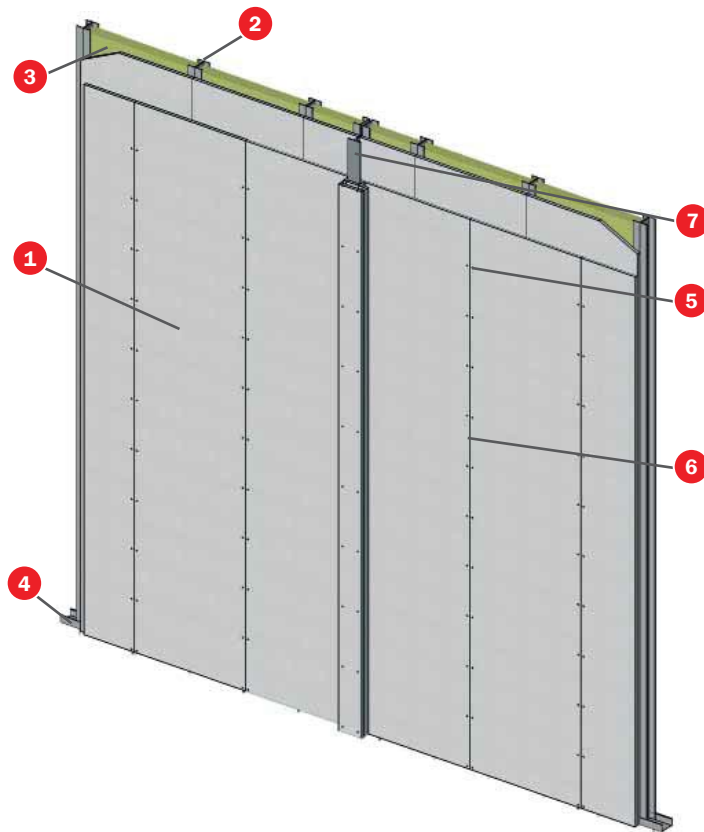
When in fire resistance tests for non-structural elements one edge is left free (Part 1: Walls), the standard allows increasing the width.

With regard to increasing the height, the standard is clear and precise. When the test is run at least at 3 metres high, it may be increased up to 4 metres.

Very often, internal partitions are higher than 4 metres. **Mercor tecresa**® have been the first to develop large partitions and offers the most efficient and convenient solution for this type of works.

Besides, penetrations produced between different fire sectors must be sealed off; for example, in the case of services crossing. Check the **TECSEL**® **Sealing System** catalogue to find the most suitable solution.

5.3 TECBOR® A 12+12 - EI-90 INDEPENDENT WALL LINING



TEST

Standard: UNE EN 1364-1

Laboratory: CIDEMCO

Test N°: 19216-1/-2 M1

SOLUTION

- 1 Tecbor® A 12 mm boards
- 2 70x36x0,6 mm H-shaped stud
- 3 60 mm (30+30) and 100 kg/m³
- 4 73x30x0,5 mm runner
- 5 3,5x35 mm self-drilling screw
- 6 Tecbor® joint paste
- 7 Metal profile

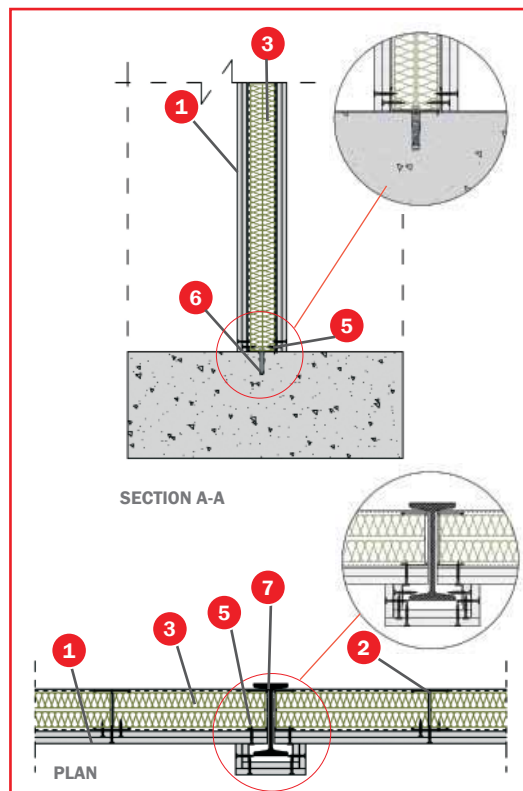
DESCRIPTION OF ASSEMBLY

Attach 73x30x0.5 mm runners and assemble 70x36x0.6 mm studs every 610 mm. Fill in frame with 60 mm (30+30 mm) and 100 kg/m³ rock wool panels.

Attach both **Tecbor® A** 12 mm board layers with 3.5x35 mm selftapping screws every 200-250 mm alternating the layers.

Use **Tecbor® joint paste** in screw heads and between boards.

Upon running the test, a 0.6 mm thick galvanised



sheet was mounted on the unexposed surface, fixed to the studs with 13 mm sheet-metal screws. This sheet is not fire resistant; therefore, it can be replaced in the final assembly.

An IPN 140 metal profile was placed in the test furnace frame centre.

