

5. NON-STRUCTURAL ELEMENTS. WALLS.

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

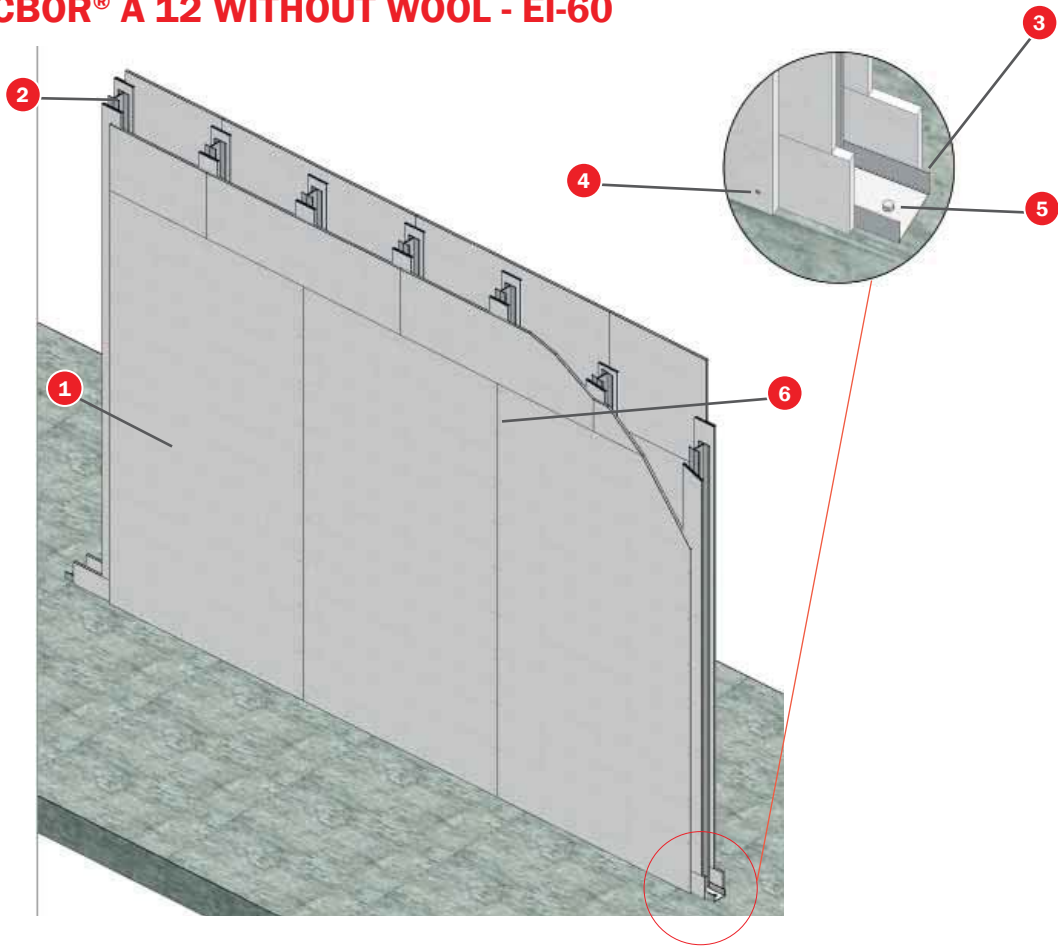
When in fire resistance tests for non-structural elements one edge is left free (Part 1: Walls), the standard allows increasing the width.

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.

5.1 TECBOR® A 12 WITHOUT WOOL - EI-60



TEST

Standard: UNE EN 1364-1

Laboratory: TECNALIA

Test N°: 051497-1

SOLUTION

- 1 Tecbor® A 12 mm boards
- 2 70x36x0,6 mm double metal stud H-shaped
- 3 73x30x0,5 mm metal runner
- 4 3,5x35 mm self-tapping screw
- 5 M6 metal plug
- 6 Tecbor® joint paste

DESCRIPTION OF ASSEMBLY

Fix 73x30x0.5 mm runners with M6 metal plug every 250-300 mm. Finish off the metal structure with 70x36x0.6 mm double studs arranged in "H" position with a 610 mm inter-axial distance.

Then fix Tecbor® A 12 mm boards to both sides with 3.5x35 mm self-tapping screws every 200-250 mm.

Finally, cover board joints and screw heads with Tecbor® joint paste.

The metal studs shall be covered with some Tecbor® board strips, on which the boards will be screwed on.

