

## 7.2 CLICWALL SEPARATING WALL WITH FIRE RESISTANCE EI60

European certificate for non-load-bearing partition wall - EN 1364-1:1999.

### CONSTRUCTION

- Clicwall FR 10 mm (Euroclass B-s2, d0): fixed with assembly kit (MS polymer dots - centre distance 200 mm) to Antivlam 12 mm.
- Antivlam 12 mm: fixed with wood screws (4.0x25 mm - centre distance 300 mm) to metal stud.
- Rockwool insulation (RockSono Base 210): 40 mm - 35 kg/m<sup>3</sup>.
- Substructure: metal stud 50 mm.
- Sealing: PE50 tape (flexible insulation tape).

### Airborne sound insulation:

The EI60 fire-retardant installation achieves an  $R_w$  (C; Ctr) = 52 (-4; -11) dB.

### Metal substructure:

- U-profiles, metal stud MSH-50 - 40 mm x 50 mm x 40 mm.
- C-profiles, metal stud MSV-50 - 5 mm x 48 mm x 49 mm x 51 x 5 mm.

### Primary profiles:

Position: U-profiles horizontally at the top and bottom and C-profiles vertically left and right.

- Fixing U-profiles: nail plugs (diameter: 4.7 mm/length: 40 mm) with PVC plug (diameter: 8 mm/length: 40 mm) - centre distance of at least 330 mm.
- Fixing C-profiles: nail plugs - centre distance 275 mm.

### Secondary profiles:

Position: C-profiles vertical between the primary profiles Fixing: nail plugs - centre distance 275 mm.

### Sealing tape:

Consists of polyethylene (PE) with closed cells. Supply all round (upper-, lower-, left and right side) self-adhesive, flexible PE/50 insulation tape to the back of the edge profiles.

### Insulation:

Rockwool insulation (Rockwool): 40 mm - 35 kg/m<sup>3</sup>.  
Install the insulation tightly between the metal profiles so that there are no air gaps between the metal profiles and insulation.

### Intermediate cladding:

Fix a 12 mm Antivlam (fire resistant chipboard) to each side with wood screws (4.0 x 25 mm) with a centre distance of 300 mm (screw at 20 mm from the edge of the plate).

### Cladding finish

Use MS polymer dots (centre distance 200 mm) to fix the 10-mm fire-retardant Clicwall FR on both sides to the underlying fire-retardant chipboard.

