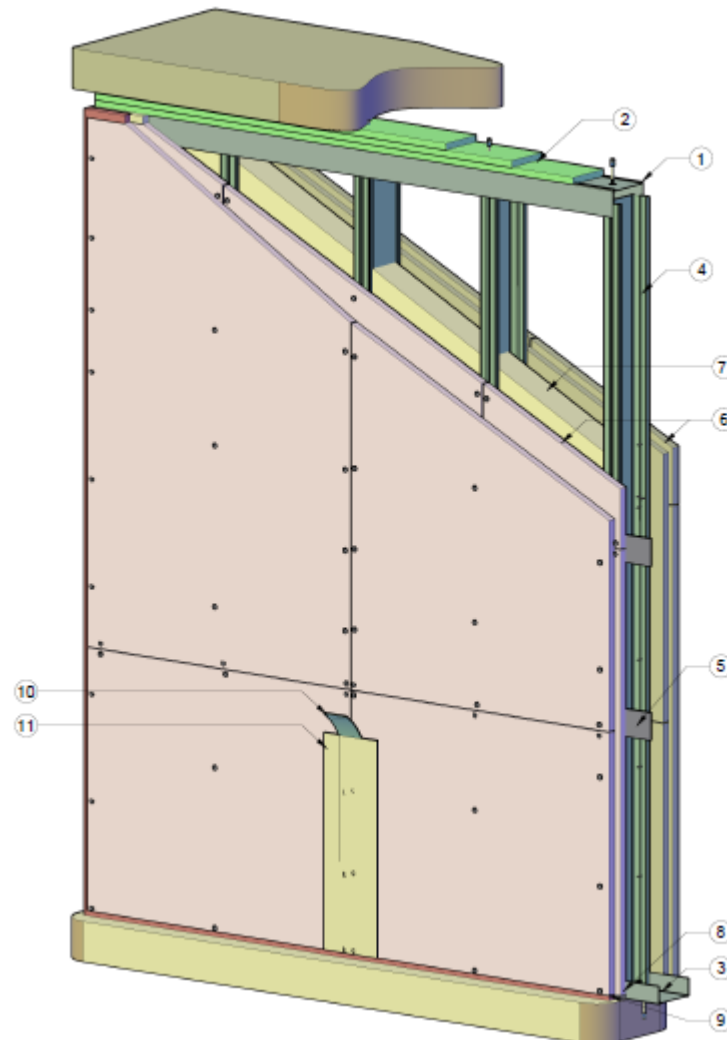

Mada Gypsum Company
Design No. MGC/GFRCP 60-01
Non-Loadbearing Double-Layered Partition Assembly
12mm thick MADA Fiber Cement Board
ASTM E119
Rating: 1 Hour



- 1. CEILING DEFLECTION TRACK:** Fix cold-rolled galvanized steel ceiling deflection track, of min. size 52 x 50 x 0.55mm (web width x flange height x thk.) (Ref: MADA Deflection head track), by anchoring through three layers of board strips

into the supporting construction using MADA wedge anchors of size M6 x 70mm long, at a nominal distance of 550mm on center (oc) and 70mm from the ends.



2. **BOARD STRIPS:** Pressure fit three layers of horizontally stacked 12.5mm thick MADA Plus Moisture Resistant plasterboard along the top of the assembly between supporting construction and ceiling deflection head track. Further fasten the board strips using MADA wedge anchors of size M6 x 70mm long.
3. **FLOOR TRACK:** Fix cold-rolled galvanized steel floor track, of min. size 52 x 32 x 0.55mm (web width x flange height x thk.) (Ref: MADA Wall Track, Model: 52/32/0.55), into the supporting construction using MADA wedge anchors of size M6 x 40mm long, at a nominal distance of 600mm oc and 45mm from the ends.
4. **VERTICAL C-STUDS:** Install galvanized steel vertical C-studs, of min. size 50 x 32 x 34 x 7 x 0.55mm (web width x flange 1 height x flange 2 height x return lip x thk.) (Ref: MADA wall C-stud, Model 50/32-34/7/0.55), into the floor track and the ceiling deflection head track by pressure fitting at every 610mm oc. Additionally, fix the vertical C-studs with the floor tracks using MADA wafer-head drill screws of size M4.2 x 13mm long, and restrain the abutment C-studs (adjacent to the supporting construction) with the supporting construction using MADA wedge anchors of size M6 x 70mm long, at a nominal distance of 25mm from the ends and 600mm oc. Maintain a nominal gap of 10mm between the head of the vertical C-studs and the ceiling deflection head track to allow for expansion.
5. **FLAT STRAP:** Fix cold-rolled galvanized steel flat strap, of size 50mm x 0.55mm (width x thk), horizontally in such a way that the straps are behind every full-length horizontal joint of the assembly for both inner and outer boards on both exposed and unexposed sides of the assembly. For inner boards, hold the straps in place within the stud and inner face of the

cement boards and fix in place using MADA self-drilling screws, of size M3.9 x 25mm, via drilling through the boards. Fix the straps for the outer boards onto the studs as well via the inner boards using the same set of screws.

6. **CERTIFIED MANUFACTURER:** MADA Gypsum Company

CERTIFIED PRODUCT: 12mm MADA Fiber Cement Board

FIBER CEMENT BOARD: Screw-fix a layer of 12mm thick MADA Fiber Cement Board on each side of the partition framing system at full height (portrait manner) using MADA self-tapping fixing screws of size M3.9 x 25mm long. Space the fixing screws at a nominal distance of 400mm oc vertically, 600 oc along the field, and 10mm from the corner edges of the boards. Fix second layer of 12mm MADA Fiber Cement Board in a staggered pattern on the inner boards onto the steel framing system using MADA self-drilling screws of size M3.9 x 45mm long, spaced 10mm from the edges and nominally spaced 200mm oc vertically and 300mm oc along the field.

7. **INSULATION:** Fill the cavity created by the studs with non-combustible (per ASTM E136) mineral wool insulation with a min. density of 30 kg/m³.
8. **BACKING ROD:** Pressure fit backing rods of size Ø10mm into the 8mm gaps between the cement boards and the supporting construction along the vertical ends and along the bottom horizontal end on both exposed and unexposed sides.
9. **SEALANT:** Apply MADA Fire Guard Acrylic Sealant smoothly over the backer rods filled in the 8mm gap between the fiber cement board layers (Item 6) and supporting construction



along the perimeter of the partition on both exposed and unexposed sides. Smoothly apply the sealant at 10mm depth along the top horizontal edge between the supporting construction and the top layered board strips on both exposed and unexposed faces.

10. JOINT TAPE: Apply 50mm wide fiberglass woven joint tape (Ref: MADA Fiber Glass Joint Tape) at the vertical and horizontal joints between the adjoining fiber cement boards on both sides of the partition assembly, and embed the joint tape into the first pass of the joint compound (Item 11).

11. JOINT COMPOUND: Apply MADA cement joint compound above the M3.9 x 45mm long fixing-screw heads on both sides of the partition assembly, along the vertical and horizontal joints of the adjoining fiber cement boards, and above the self-adhesive fiberglass woven joint tape which is already embedded into the first pass of MADA cement joint compound. A total of two passes of the joint compound are applied over the joints.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.