

DRYWALL CEILING SYSTEM METHOD STATEMENT

INSTALLATION METHOD

Suspension system

Fix USG Middle East Corner Profiles to walls and around columns etc at 600mm maximum centers, making allowance in the ceiling height for the thickness and number of layers of Gypsum board to be used, as follows:

1. Ceiling Height allowance

Gypsum board layers Ceiling height (mm)	Allowance (mm)
12 / 12.5 / 13	12 / 12.5 / 13
12+12 / 12.5+12.5 / 13+13	12 / 25 / 26
15 / 16	15 / 16
15+15 / 16+16	30 / 32

Attach USG Middle East Soffit Cleats to the structural soffit. Suspend the metal system from the Soffit Cleats with USG Middle East Metal Angle or Strap Hanger. Fix Metal Angle to the USG Middle East Primary Channel with two self-drilling Pan Head Screws. Space the fixings at 1200mm centers and Primary Channels at centers as shown

2. Recommended maximum ceiling loading

Suspension centers (mm)	Primary Channel centers (mm)	Maximum loading including Gypsum board(kg/m ²)
1200	600	74
1200	900	50
1200	1200	35

Screws fix the USG Middle East Ceiling Channels at right angles to the underside of the USG Middle East Primary Channels using USG Middle East Wafer Head Screws.

3. Maximum framing centers

Gypsum board thickness (mm)	Gypsum board length (mm)	Ceiling Channel centers (mm)
12 / 12.5	2400	600
	2700,3000	600
15 / 16	2400	400
	2700,3000	400

To join USG Middle East Primary Channels, overlap back to back by 150mm and fix with two bolts. Join USG Middle East Ceiling Channels by nesting together by 150mm and crimping or screwing twice on each side of the overlap.

BOARDING

Single Layer

When using single layer Gypsum board, fix with the bound edges at right angles to the ceiling sections, with adjoining edges lightly butted. End joints must occur at the center of the ceiling section, staggered by half a board length whenever possible leaving a gap of up to 3mm gap between ends of board. The Gypsum board is screw fixed to the ceiling sections at 230mm maximum centers with USG Middle East Drywall Self Tapping Screws of the appropriate length. Cut edges of the Gypsum board are screwed at 150mm maximum centers to the Ceiling Channel; likewise all edges are screwed to the Edge Channel at wall junctions at 150mm centers. Screws must be no closer than 10mm to bound edges and 13mm to cut edges of Gypsum board.

Double Layer

When using double layer Gypsum board, the first layer is fixed as above. The second layer should be fixed with all joints staggered in relation to the first layer and screwed to the Ceiling and Corner Profiles as before with USG Middle East Drywall Self Tapping Screws, avoiding the screws used to fix the first layer. To maintain acoustic integrity, seal around the perimeter of the ceiling with USG Middle East Acoustic Sealant.

Where there may be a risk of interstitial condensation, use USG Middle East Aluminum foiled board as the inner layer of the ceiling, with the metalized film facing inwards. Where used in ceilings USG Middle East Firestop Gypsum board must always be the outer layer. When setting out in areas where partitioning is to be attached to the underside of the ceiling, position the USG Middle East Ceiling Channels so as to allow the partition ceiling U Track to be screw fixed to the USG Middle East Ceiling Channels. Suspend heavy loads, air ducting, lighting units etc directly from the structural soffit to avoid loading of the suspension framing.

MOVEMENT CONTROL JOINTS

The continuity of the Gypsum board and supporting structure should be broken by movement control joints: where the ceiling runs 10m or more in any direction where the ceiling crosses structural movement joints.



**MOVEMENT JOINTS
RUNNING PARALLEL TO
THE CEILING CHANNELS**

Locate Ceiling Channels along each side 60mm from the movement joint (measured to centers). Secure both Ceiling Channels to Primary Channels with clips. Leave a gap in the runs of Primary Channel as wide as the joint and support the cut ends with hangers.

**MOVEMENT JOINTS
RUNNING ACROSS THE
CEILING CHANNELS**

Form a 12 / 12.5mm gap along the line of the movement joint, supported by Primary Channels 60mm from each side of the joint. To maintain the acoustic and fire integrity of the ceiling, pack the space behind the joint with 60mm rock mineral wool batt with a density of 23kg/m³. When boarding the ceiling, leave a 12 / 12.5mm continuous gap along the line of the movement joint.

CEILING RECESS

Ceiling recess detail incorporating a change in ceiling height is suitable for a maximum change in level of 600mm.

CEILING OPENINGS

Around openings for access panels, ducting, lighting troughs etc, form a frame from Edge Channel screw-fixed over the ends of the USG Middle East Ceiling Channels to brace the ceiling grid. Install extra USG Middle East Primary Channels to support USG Middle East Ceiling Channels for large openings. Screws fix plasterboards to USG Middle East Corner Profiles around openings at 150mm centers.

***Note:** This method statement for the ceiling will be only applicable with complete USG Middle East systems...*

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