

Roof Systems

Data Sheet



contact : 01205922023

مدينة بدر , منطقة الروبيكي , منطقة ١٠ فدان , قطعة ٧٥

مصنع الصمام للاعمال المعدنية

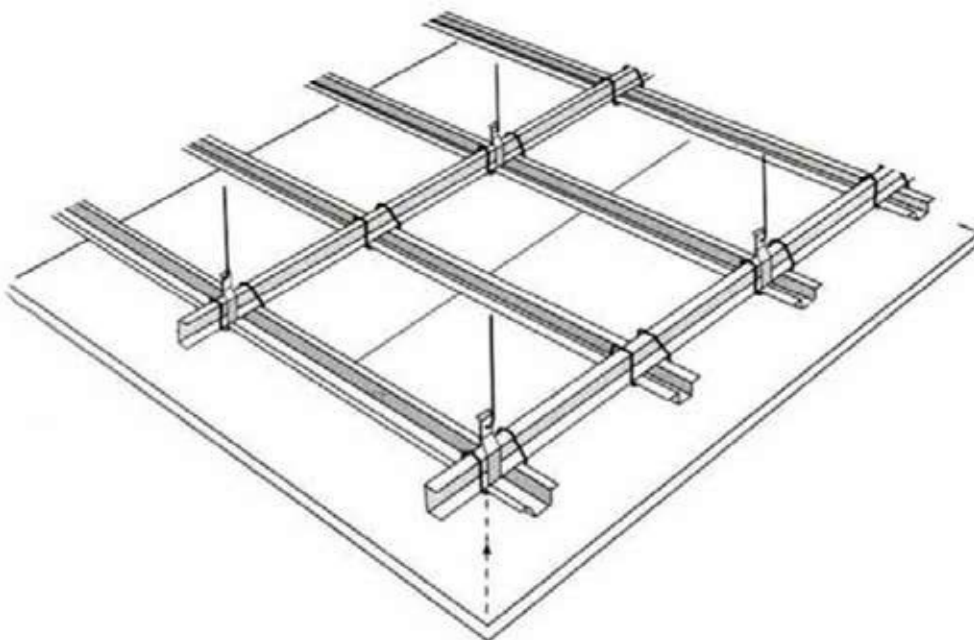
Alsamamsteel@gmail.com

Roof Systems

AB 38 Ceiling System

Introduction

The AB 38 Ceiling System is a well-established and reliable method for constructing gypsum ceilings. Widely recognized for its flexibility, lightweight nature, and structural reliability, this system is designed to meet stringent acoustic insulation and fire resistance requirements. It consists of a main carrier (AB 38), suspended from the concrete ceiling, and a furring channel, attached via a (GL) perimeter angle, forming a durable and efficient framework.



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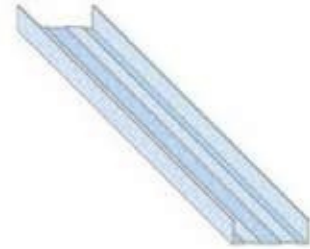
AB 38 Ceiling System

System Components

1. AB 38:

Main carrier for ceiling systems.

made from hot dipped Galvanized steel, 040 and G60



2. AB G:

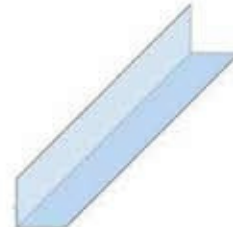
Secondary carrier for ceiling systems made from hot dipped Galvanized steel.

G40 and G60.



2. AB L:

shape perimeter angle. made from hot dipped Galvanized steel, G40 and G60.

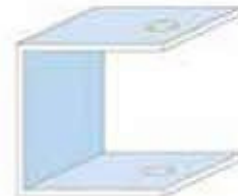


4. U Bracket (UB 38):

Purpose: Fix and align the main carrier (AB 38) and secondary carrier (CR 102).

Material: Hot-dipped galvanized steel, 0.6mm–1mm thickness.

Usage: 1 piece per square meter.



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Installation Guidelines

Preparation:

1. Inspect the existing concrete ceiling to evaluate the placement of services and their relationship to the suspended ceiling.
2. Plan the installation points for threaded rods, ensuring:
 - Maximum spacing of 1200mm in all directions.
 - Maximum distance of 400mm from walls.
3. Provide sufficient support for all service units (e.g., lighting, HVAC).
4. Confirm all measurements align with the overall site dimensions.



Frame Installation:

1. Perimeter Angle Fixing: Attach the perimeter angle (GL) to all walls using appropriate screws, ensuring the spacing does not exceed 400mm.
2. Main Carrier Installation: Secure the main carrier (AB 38) to the threaded rods with U Brackets (UB 38), maintaining:
 - Maximum spacing of 1200mm between carriers.
 - Maximum distance of 400mm from walls.
3. Secondary Carrier Installation: Attach the furring channel perpendicular to the main carrier using wire clips (WC 38). If expansion is not required and the ceiling weight is under 20kg/m², screws may be used. Ensure:
 - Maximum spacing of 600mm between secondary carriers.
 - Maximum distance of 400mm from walls.

Board Fixing:

1. Maintain stable indoor temperature during installation to prevent board damage.
2. Secure gypsum boards to the secondary carriers using screws with the following guidelines:
 - Spacing: 25mm apart.
 - Distance from edges: Minimum 10mm, maximum 25mm.
3. Use a staggered arrangement when installing boards.
4. Reinforce any openings in the ceiling with appropriate edge profiles, such as L-Beads or End-Beads.

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Alsamamsteel@gmail.com

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Taping and Jointing Process

Taping and jointing is performed in three stages:

- 1. Apply self-adhesive fiber tape to the plasterboard joints.*
- 2. Apply the first coat of joint filler. After it sets (approximately 90 minutes), apply two additional coats.*
- 3. Once the second coat dries completely (typically 24 hours), sand the joints using a vacuum sander to minimize dust. The surface is then ready for painting.*

Additional Notes:

Use corner beads or metal tape for external corners, applying the same three-coat process.

Splicing Instructions

- 1. Overlap splicing connectors for furring channels and main carriers by at least 150mm.*
- 2. Cut channels 5mm shorter than the wall-to-wall distance to ensure proper fit.*
- 3. Use metal straps for flexible installation when threaded rods are impractical.*
- 4. Secure screws:*
 - Minimum 10mm from paper-bound edges of plasterboards.*
 - Minimum 13mm from cut edges of plasterboards.*
 - Minimum 3mm from the edges of metal framing.*



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