

MODULAR CEILING INSTALLATION PROCEDURE

The original and most widely used acoustical suspension system.

CONFIDENCE WITH A CLICK

CHOOSING THE BEST CEILING FOR YOUR PROJECT CAN MAKE ALL THE DIFFERENCE.

For over 30 years, USG ME has led the industry with innovations that make suspension systems easier, faster, and more reliable to install.

With an unparalleled variety of choices, no matter what your ceiling needs, we have you covered.

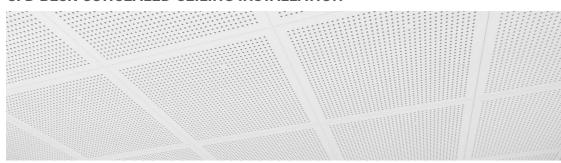
1. LAY-IN CEILING INSTALLATION



2. CLIP-IN CEILING INSTALLATION



3. D BESK CONCEALED CEILING INSTALLATION



4. S BESK CONCEALED CEILING INSTALLATION



GENERAL TOOLS REQUIRED FOR ALL CEILING TYPES









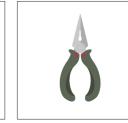
Standard Personal Protective Clean Protective Gloves Equipment (PPE)

3D Laser Levelling Machine











Wrench Set With Spanners Wire Cutting Pliers

Tin Snips

Wing Compass









Utility Knife

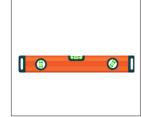
Plastic Hammer

Industrial Work Bench

Pencil









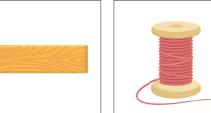
Measuring Tape

Measuring Ruler

Spirit Level

Chalk Line







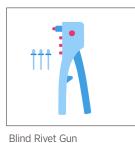


Straight Edge

Panel Extraction Tool







String

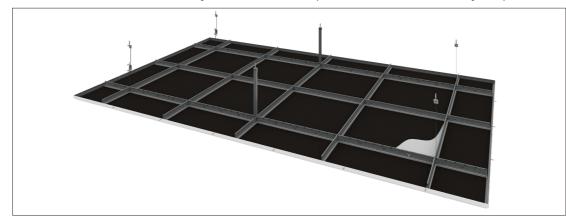
Portable Grinding Machine

ADDITIONAL TOOLS FOR METAL CEILING INSTALLATION

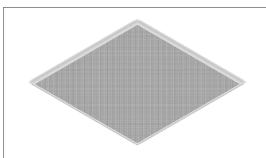
LAY-IN CEILING INSTALLATION PROCEDURE

LAY-IN

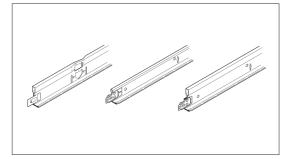
The appearance of a suspended acoustical ceiling is dependent both on the materials used and on the quality of the installation. USG ME manufactures components to meet ASTM C635 assuring that the material, structural and quality standards are as prescribed. Install according to ASTM C636, ASTM E580 and USG ME requirements, assuring proper level and secure attachment as prescribed. To ensure an impeccable installation, it's imperative to maintain cleanliness and dryness of the ceiling elements during transportation and storage, and to have a flat, level surface to prevent any potential damage. It's important to note that USG ME tiles should only be installed once all plaster and screed work is fully completed.



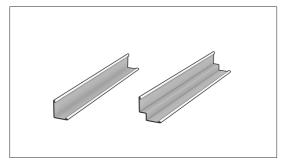
COMPONENTS



Ceiling Tile



Main Tee, Long Cross Tee, Short Cross Tee



Perimeter Wall Angle (Shadowline Wall Angle, L Angle)

HANGING OPTIONS



Adjustable Hanger



Suspension Wire



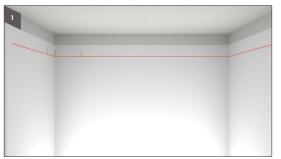
Angle Section



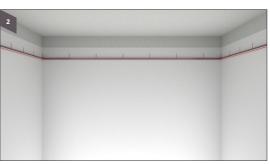
Hanging Bracket

LAY-IN CEILING INSTALLATION PROCEDURE

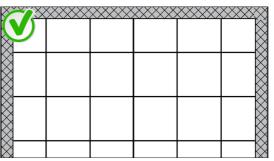
INSTALLATION



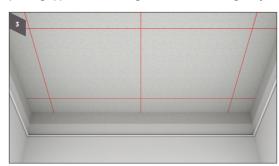
Measure the room & determine the reflected ceiling plan along with the visual layout for the ceiling. Start the layout from the room center, progressing in modules toward the perimeter based on the tile size as shown in figures 4.1 & 4.2.



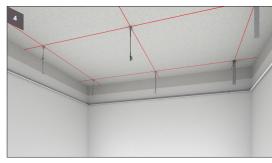
Secure the perimeter wall angle at the specified ceiling height.



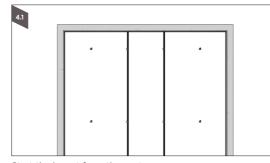
Ensure that none of the cut tiles at the perimeter are smaller than half the tile width or length to maintain an aesthetically pleasing appearance. You might need to move the grid by ½ module size to ensure this arrangement.



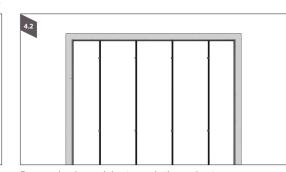
Mark and install hangers for the main profiles on the soffit according to the predetermined reflected ceiling plan spacing maximum at 1200 mm o.c using a laser for accuracy.



Fix hangers at 1200 mm o.c, requiring a minimum hanger height of 100 mm to facilitate tile installation.



Start the layout from the center.



Progressing in modules towards the perimeter.

LAY-IN CEILING INSTALLATION PROCEDURE



Fix the main tee at 1200 mm spacing and lay it on the wall angle



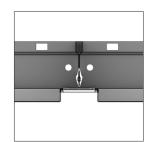
Insert the long cross tee to the main tee in place at 600 mm spacing.



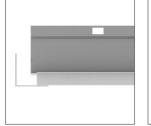
Insert the short cross tee to long tee in place.



Install the ceiling tile



DONN® brand audible click L-angle



Grid installation at the Shadowline Wall Angel top leg for tapered tile edge



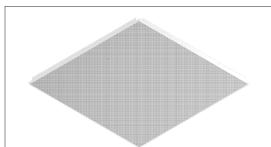
Grid installation at the Shadowline Wall Angel bottom leg for square tile edge

CLIP-IN CEILING INSTALLATION PROCEDURE

CLIP-IN

The appearance of a suspended acoustical ceiling is dependent both on the materials used and on the quality of the installation. USG ME manufactures components to meet ASTM C636, 2006 IBC (2007 CBC), CISCA Ceiling Systems Handbook, (UL Design) and any applicable code requirement, assuring that the material, structural and quality standards are as prescribed. Install according to ASTM C636, ASTM E580 and USG requirements, assuring proper level and secure attachment as prescribed. To ensure an impeccable installation, it's imperative to maintain cleanliness and dryness of the ceiling elements during transportation and storage, and to have a flat, level surface to prevent any potential damage. It's important to note that USG ME tiles should only be installed once all plaster and screed work is fully completed.





Ceiling Tile





Primary Channel

Adjustable Hanger

Wire Connecting Clip- WCC





Suspension Wire



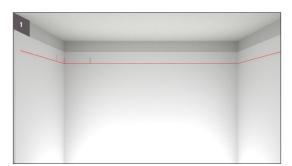
Angle Section



Hanging Bracket

CLIP-IN CEILING INSTALLATION PROCEDURE

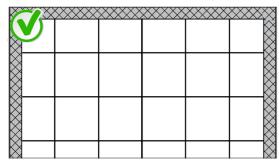
INSTALLATION

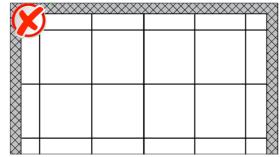


Measure the room & determine the reflected ceiling plan along with the visual layout for the ceiling. Start the layout from the room center, progressing in modules towards the perimeter based on the tile size as shown in figures 4.1 & 4.2.

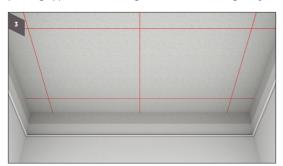


Secure the perimeter wall angle at the specified ceiling height.





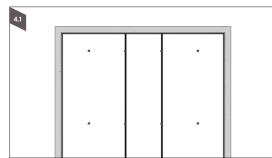
Ensure that none of the cut tiles at the perimeter are smaller than half the tile width or length to maintain an aesthetically pleasing appearance. You might need to move the grid by ½ module size to ensure this arrangement.



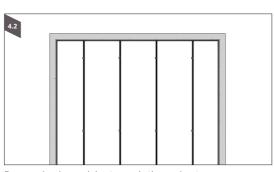
Mark and install hangers for the main profiles on the soffit according to the predetermined reflected ceiling plan spacing maximum at 1200 mm o.c using a laser for accuracy.



Fix hangers at 1200 mm o.c, requiring a minimum hanger height of 100 mm to facilitate tile installation.



Start the layout from the center.



Progressing in modules towards the perimeter.

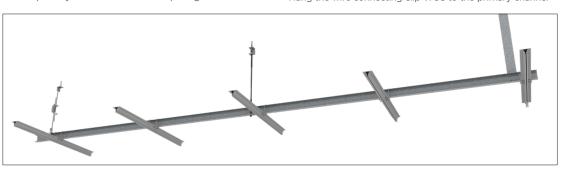
CLIP-IN CEILING INSTALLATION PROCEDURE





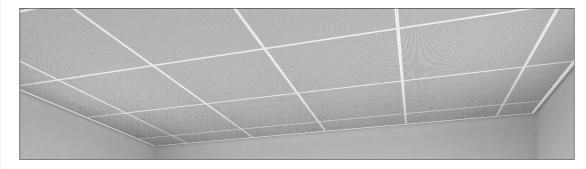
Fix the primary channel at 1200 mm spacing

Hang the wire connecting clip WCC to the primary channel





Connect the spring tee to the primary channel at 600 spacing using wire connecting clip WCC



Important Tips

- Ensure that the ceiling grid is level and straight throughout the installation process.
- Always use safety gear such as gloves and eye protection when handling the metal ceiling components.
- Cut the metal ceiling panels with the appropriate tools to ensure clean cuts and prevent damage to the panels.
- Do not apply excessive force when inserting the clip in the panel as this may cause damage to the ceiling components.

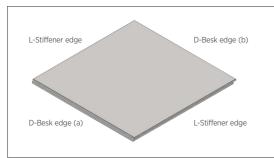
D BESK CONCEALED CEILING INSTALLATION PROCEDURE

D BESK CONCEALED

The D Besk concealed system boasts a sleek, monolithic aesthetic achieved through the use of concealed ceiling profiles. The ceiling tiles come in demountable option, catering to various construction preferences. Depending on specific needs, the ceiling void can be made retrospectively accessible or permanently sealed. Every component in USG ME's D Besk concealed system is designed for individual demounting. To ensure an impeccable installation, it's imperative to maintain cleanliness and dryness of the ceiling elements during transportation and storage, and to have a flat, level surface to prevent any potential damage. It's important to note that USG ME tiles should only be installed once all plaster and screed work is fully completed.



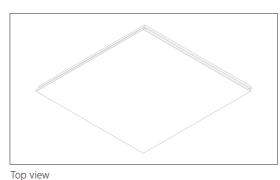
D BESK CONCEALED MINERAL FIBER



Bottom view: To preserve tile stability and prevent warping, fix L-Stiffener inside the mineral fiber slot.

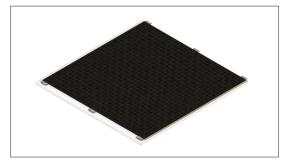


Top view



D Besk concealed section.

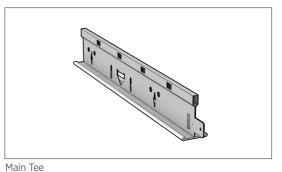


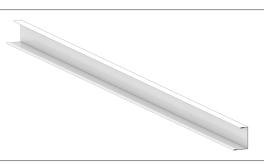


Top view Bottom view

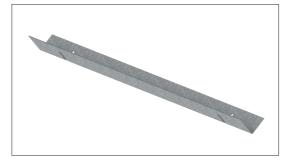
D BESK CONCEALED CEILING INSTALLATION PROCEDURE

COMPONENTS





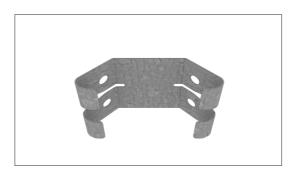
U-trim



Stabilizer Bar



L-stiffener: required for D Besk Mineral Fiber tiles only and is not required for Soft Fiber or Gypsum Tiles.

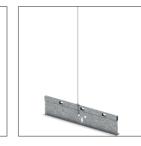


Butterfly Clip

HANGING OPTIONS



Adjustable Hanger



Suspension Wire

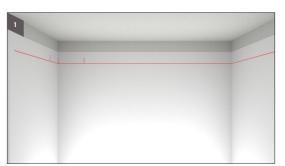


Angle Section



D BESK CONCEALED CEILING INSTALLATION PROCEDURE

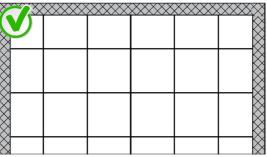
INSTALLATION

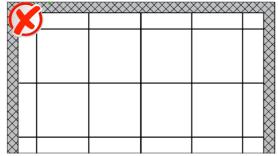


Measure the room & determine the reflected ceiling plan along with the visual layout for the ceiling. Start the layout from the room center, progressing in modules towards the perimeter based on the tile size as shown in figures 4.1 & 4.2.



Secure the perimeter wall angle at the specified ceiling height.





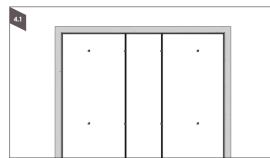
Ensure that none of the cut tiles at the perimeter are smaller than half the tile width or length to maintain an aesthetically pleasing appearance. You might need to move the grid by ½ module size to ensure this arrangement.



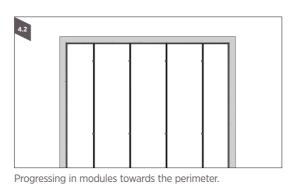
Mark and install hangers for the main profiles on the soffit according to the predetermined reflected ceiling plan spacing maximum at 600 mm o.c using a laser for accuracy.



Fix hangers at 600 mm o.c, requiring a minimum hanger height of 100 mm to facilitate tile installation.



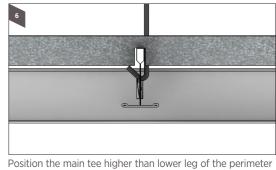
Start the layout from the center.



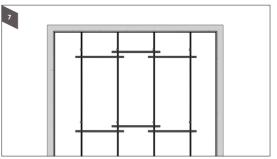
D BESK CONCEALED CEILING INSTALLATION PROCEDURE



Install the main tee profiles at 600 mm spacing, positioning them higher than the lower leg of the perimeter U trim as shown in diagram #8.



Position the main tee higher than lower leg of the perimeter U trim by 10 mm to perfectly fit the tile inside the U trim for concealed appearance.



Use a stabilizer bar at intervals of 1200 mm to fix the main runners. Ensure the stabilizer bars are placed adjacent to the hangers, allowing every second tile to remain passable.



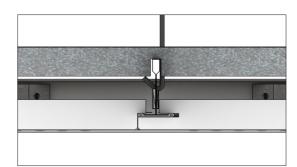
Start tile installation starting from the center of the room towards the perimeter. Progress row by row until the ceiling is fully installed.



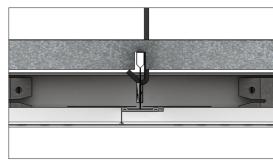
Section of D Besk mineral fiber tiles installation on the U trim without L-Stiffener.



with L-Stiffener.



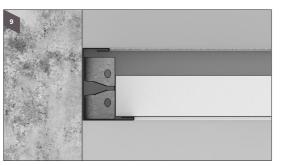
Section of D Besk soft fiber tiles installation on the U trim.



Section of the concealed gypsum tiles installation on the $\mbox{\sc U}$ trim.

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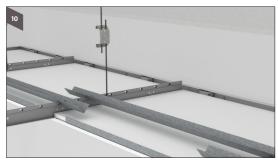
D BESK CONCEALED CEILING INSTALLATION PROCEDURE



If the room requires cut-tiles at the perimeter, cut the tiles to be 10 mm smaller than the clearance between the tile and the wall.



Method of fixing the butterfly clips and the stabilizer bar.



Secure all perimeter tiles with U-Trim using butterfly clips, which will function as springs to push the tiles towards the grid.



Individually demount each tile in this system for maintenance. To remove any tile, slightly raise the tiles on one side until they can be slid off the main profile.

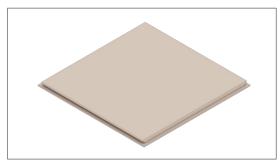


S BESK CONCEALED CEILING INSTALLATION PROCEDURE

S BESK CONCEALED

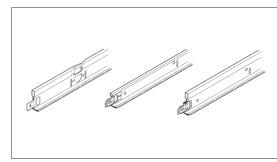
The S Besk concealed system boasts a sleek, monolithic aesthetic achieved through the use of concealed ceiling profiles. The ceiling tiles come in demountable option, catering to various construction preferences. Depending on specific needs, the ceiling void can be made retrospectively accessible or permanently sealed. Every component in USG ME's S Besk concealed system is designed for individual demounting. To ensure an impeccable installation, it's imperative to maintain cleanliness and dryness of the ceiling elements during transportation and storage, and to have a flat, level surface to prevent any potential damage. It's important to note that USG ME tiles should only be installed once all plaster and screed work is fully completed.

COMPONENTS

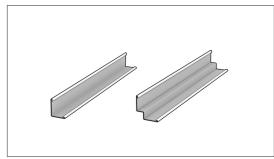




S BESK tiles are available in Soft Fiber, which come in a standard size of 600x600 mm with a thickness of 25 mm, and installed using the Donn® T24 grid system.



Main Tee, Long Cross Tee, Short Cross Tee



Perimeter Wall Angle (Shadowline Wall Angle, L Angle)

HANGING OPTIONS



Adjustable Hanger



Suspension Wire

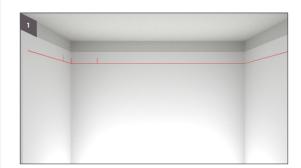


Angle Section



Hanging Bracket

INSTALLATION

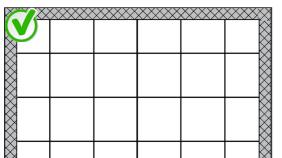


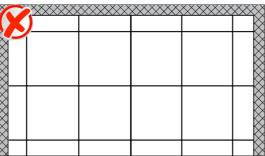
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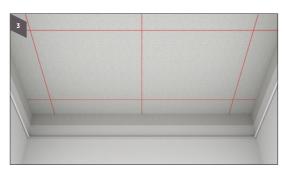
Secure the perimeter wall angle at the specified ceiling height.

S BESK CONCEALED CEILING INSTALLATION PROCEDURE





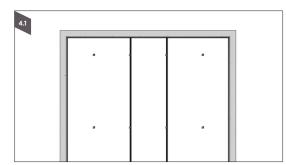
Ensure that none of the cut tiles at the perimeter are smaller than half the tile width or length to maintain an aesthetically pleasing appearance. You might need to move the grid by ½ module size to ensure this arrangement.



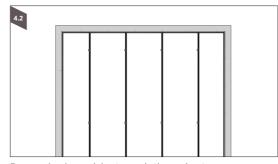
Mark and install hangers for the main profiles on the soffit according to the predetermined reflected ceiling plan spacing maximum at 1200 mm o.c using a laser for accuracy.



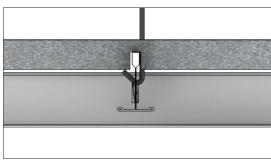
Fix hangers at 1200 mm o.c, requiring a minimum hanger height of 100 mm to facilitate tile installation.



Start the layout from the center.



Progressing in modules towards the perimeter.



Position the main tee higher than lower leg of the perimeter wall angle.



Fix the main tee at 1200 mm spacing and lay it on the wall angle

S BESK CONCEALED CEILING INSTALLATION PROCEDURE



Insert the long cross tee to main tee in place at 600 mm spacing.



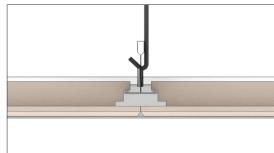
Insert the short cross tee to long tee in place.



Install the S Besk tile.

Individually demount each tile in this system for maintenance.

To remove any tile, slightly raise the tiles on one side until



S Besk section.



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