KC50

Concealed Ceiling System

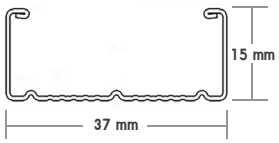
KNAUF KC50

General Information

- It is strong, long-lasting, and load-bearing in accordance with international standards.
- With the properties of hot-dipped galvanized steel, the frame can be protected against rust.
- Ensured safety when using the Knauf metal frame system.
- Made with German technology, emphasizing the quality of each product's manufacturing.
- Equivalent to the building's lifespan.

Key Features

- Tested with a load capacity of 240 newtons per meter following TIS standards 863-2532.
- 220 grams/sq.m. hot dipped galvanized steel, protect from rust.
- The cross-sectional area is larger than the market and can support the force. It ensures the strength.
- Applying innovative German technology.
- Knauf profile systems produce the most effective results when applied with Knauf accessories.



Cross Section 15 x 37 mm
Thickness 0.52 mm
Length 4,000 mm
Tolerance according to TIS standards 50-2561

SALAMANDER
MANGO

KC50

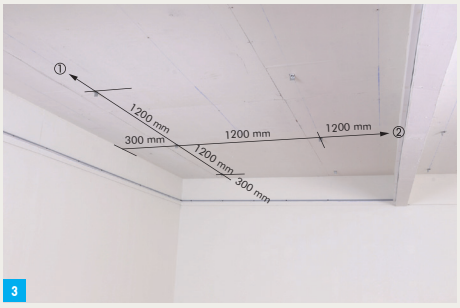
Installation Instruction

1

Mark the ceiling height around the perimeter of the space (with a water level or laser tools) based on the building's drawing.

2

Install Knauf KC50 Wall Angle around the perimeter of the room. The first fixing point is 50mm from the room's edge, and the following are 300mm spaced.

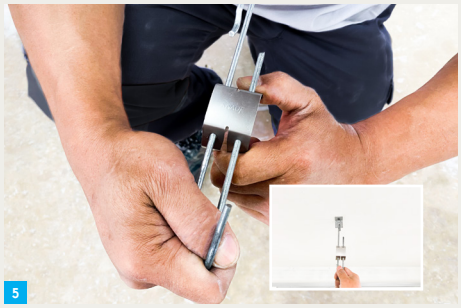


3

Mark the position of the first area line soffit cleats, the main frame, and the beginning distance of 300 mm, followed by the distance of 1200 mm. Install the second area line soffit cleats for attaching the hanging set at a distance of 1200 mm by attaching the bracket to the floor using expansion bolts.

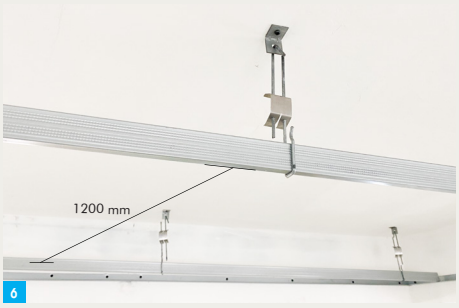
4

Measure the distance between the fixed soffit cleats and the wall angle in order to prepare the upper wires with a diameter of 4 mm.



5

Create a hook by bending the wire about 50 mm at one end. Assemble the top wire and the hook Wire KC50 using the Stainless Spring. Suspend the hanging sets from the soffit cleats and adjust the length to fit the ceiling height requirements.



6

Fix the Hook Wire KC 50 to the KC50 main furring channels at every 1,200 mm as indicated.

KC50

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7

Fix the KC50 secondary furring channel to the Main using KC50 Clip Lock every 400 mm. Fix the ends of the secondary furring channels to the wall angles around the room using profile screws.

8

Prior to fixing the gypsum boards to the frames recheck the ceiling is level and adjust using the springs as necessary.

9

Fix the gypsum boards to the frame using drywall screws with proper length (25 mm for 9 mm boards). Fix screws across the board's width at every 150 mm at board's ends and every 240 mm at every 400 mm along the length.

10

After all boards have been fastened, use a small trowel to inspect the screw head protrusion. Use a screwdriver to tighten the protruding screws until they are 1 mm below the surface of the board (be careful not to overtighten).

11

Mix 2 parts Knauf K Joint compound with 1 part water in a circular motion until there are no lumps. Cover all screw heads with a mixture of K Joint and Knauf Joint tape, using K Joint as a base and a small trowel until the surface is smooth. Let it set. Apply 2 additional layers with a large trowel to create a seamless ceiling.

12

After all 3 layers are completely dry, sand the surface with fine sandpaper until it is smooth. Clean the excess dust thoroughly. Apply paint in accordance with the manufacturer's recommendations.

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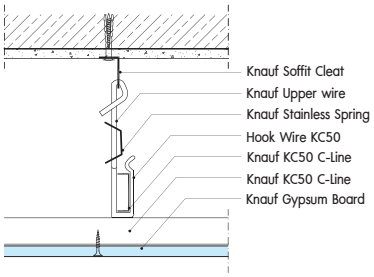
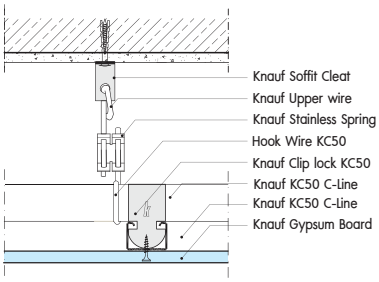
Concealed Ceiling System KC50

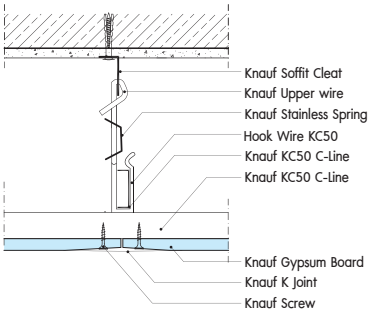
1. Connection to Slab



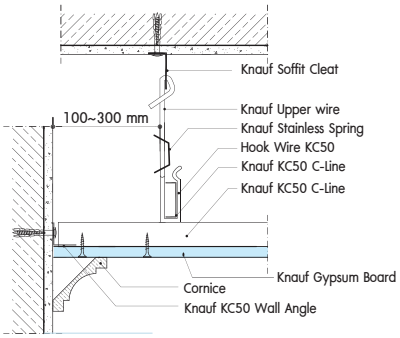
2. Connection to Slab



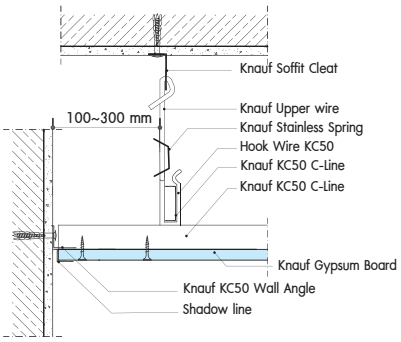
3. Single Board Joint



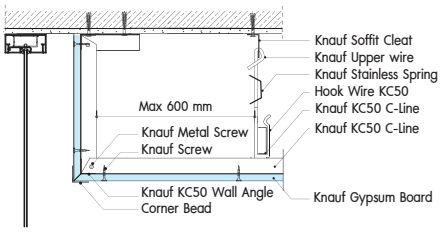
4. Abument Cornice



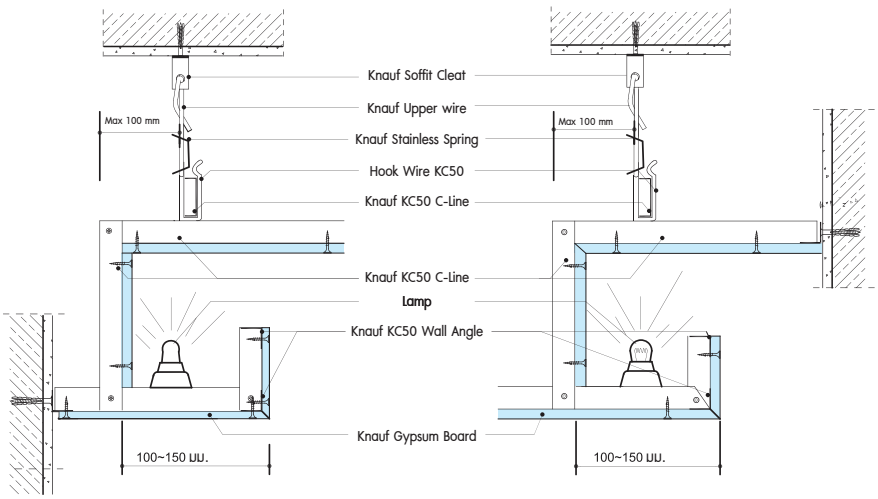
5. Shadowline



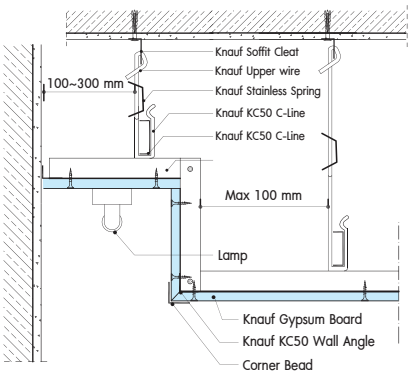
6. Curtain Box



7. Connection to Solid Wall



8. Lamp Cove



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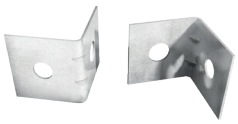
SYSTEM COMPONENTS

A

Expansion Bolt 6 mm



B

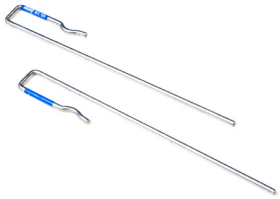
Soffit Cleat

C

ø 4 mm Upper wire

D

Stainless Spring



E

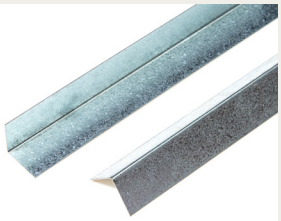
Hook Wire KC50

F

KC50 C-Line

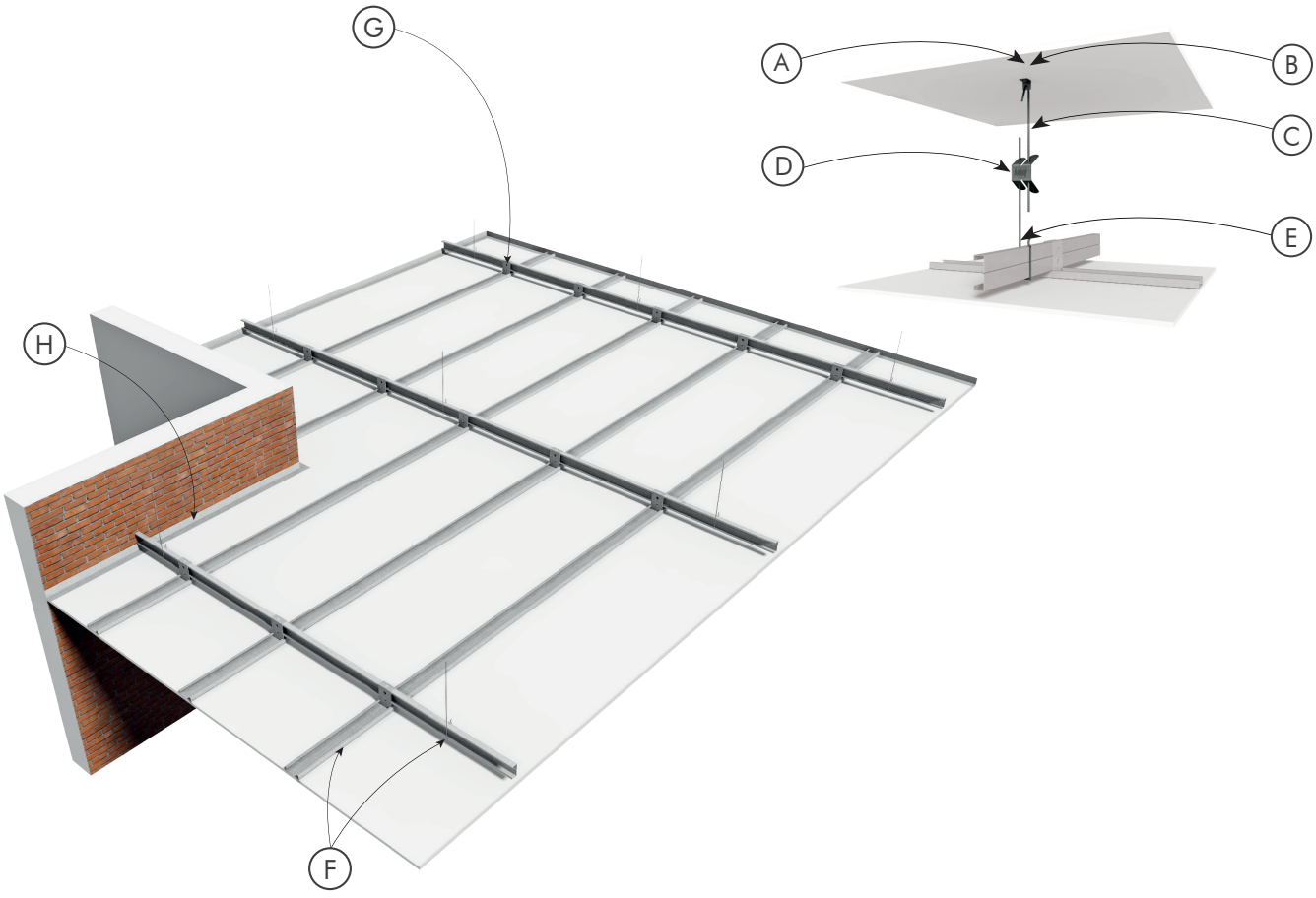
G

Clip lock KC50



H

KC50 Wall Angle



KNAUF THAILAND

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