sto

Installation instructions for StoSilent Modular 100

To install StoSilent Modular 100 as a ceiling element, use the Sto suspending sets. The Sto suspending sets are available separately as steel wire hangers, threaded rods or vernier hangers. If using other hangers provided by the customer, it is possible to order the connecting hook StoSilent Modular 100 Connector separately.

Standard suspending sets:

Vernier hanger	Length 500 mm (top part 490 mm, bottom part 170 mm)
Threaded rod	M6 x 500 mm
Steel wire hanger	Length 500 mm

Depending on the format, two or three pre-assembled carrier profiles are located on the rear side of the ceiling element. Using these profiles, the ceiling element can be suspended and removed. We recommend that two people install the element.

Tools required:

- White cotton gloves
- Ladder
- Pencil
- Tape measure Spirit level Suitable drill bit
- Drill
- Suitable screws
- Suitable retaining elements (dowels, etc.)

Note

StoSilent Modular 100 can be suspended sloping up to an inclination of 75°.

Requirements:

- The carrier profiles must lie crosswise to the direction of inclination.
- The carrier profiles must be aligned horizontally.
- The element may only be inclined along one axis.

If the ceiling elements are illuminated from the back, the carrier profiles may shine through visibly. If several ceiling elements are installed in a bond, we recommend spacing them approx. 50 mm apart, due to any possible installation tolerances. Depending on the fixing substrate, select suitable dowels and screws that are sufficiently load-bearing. Please observe structural and building physical aspects during installation. Wear clean gloves when installing the StoSilent Modular 100 ceiling element and only transport it by the carrier profile on the rear side. When installing on a ceiling, always suspend the element from at least four points. Use two hangers per carrier profile. For elements with three carrier profiles, always use the outer carrier profiles. The following tables and diagrams explain the load assumptions, the suspension points, and how to secure the connecting hooks.

Load assumptions for ceiling installation (4 suspension points)						
Length in mm	Width in mm	Mass/weight in kg approx.	Load per suspension point in kg approx.			
1150	750	3.2	0.8			
1150	1150	4.2	1.05			
1250	1250	4.6	1.15			
2350	1150	6.4	1.6			
3000	1250	8.2	2.05			

Suspension point dimensioning for ceiling installation

Element length in mm	Element width in mm	Α	В	с	D
3000	1250	510	1980	2490	≤ 210
2350	1150	510	1330	1840	≤ 190
1250	1250	220	810	1030	≤ 210
1150	1150	220	710	930	≤ 190
1150	750	220	710	930	≤ 125
Special dimension		On request			

• Dimensions relate to the outer edge of the element.

Position and dimensions



Suspensionspoints

Inserting the connecting hooks into the carrier profile and securing them



Note: These construction planning suggestions are only very general in nature and in no way represent detailed or binding instructions. The detailed technical specifications and information on the products contained in the Technical Data Sheets and approvals must be observed.

Fixing to the ceiling with vernier hangers



1

Scope of delivery: 4

- Vernier hanger top parts, length = 490 mm
- 4 Vernier hanger bottom parts,
- length = 170 mm
- 8
- Vernier locking pins Hexagon screws M5 x 8 4
- 4 Serrated washers M5
- 4 Washers, thk = 6 mm 4
- . Hexagon nuts M5 4
 - StoSilent Modular 100 Connector connecting hooks

Mark the fixing points on the ceiling in accordance with the table "Suspension point dimensioning for ceiling installation". Fix the vernier hanger top part to the ceiling. After fixing the vernier hanger, bend it by 90° into a vertical position.



Screw the connecting hooks with the hexagon bolt, the washer, the serrated washer M5, and the hexagon nut M5 to the vernier hanger bottom part and tighten.



top vernier part to the right height and join with two vernier locking pins.







Use a suitable tool to press the tab of the connecting hook outwards by approx. 25° (equivalent to approx. 5 mm). This prevents it from slipping out of the hanger.

Remove the masking film over the Sto label and clean the frame if necessary.



Adjust the bottom vernier part and the

Fixing to the ceiling with threaded rods

Fixing to the ceiling with steel wire hangers

Δ



1

Scope of delivery:

4

8

8

4

- Threaded rods M6 x 500 mm
- Hexagon nuts M6
- Washers, thk = 6 mmStoSilent Modular 100 Connector connecting hooks

Mark the fixing points on the ceiling in accordance with the table "Suspension point dimensioning for ceiling installation". Screw the connecting hook on to the threaded rod. Tighten with the washers and the hexagon nut M6.



Shorten the threaded rod M6 to the required suspension height and fix to the ceiling.



Connect StoSilent Modular 100 by hanging its carrier profiles into the connecting hooks and align.



Use a suitable to tool to press the tab of the connecting hook outwards by approx. 25° (equivalent to approx. 5 mm). This prevents it from slipping out of the hanger.

Remove the masking film over the Sto label and clean the frame if necessary.







Scope of delivery:

- Ceiling fixings M13 x 1 with 6.5 drill hole
- 4 Screw caps M13 x 1
- 4 Steel wires, diameter 1.0 mm, with pressed end stop, length 500 mm
- 4 Steel wire holders 4
 - Serrated washers M5
- 4 Hexagon screws M5 x 8 4
 - StoSilent Modular 100
 - Connector connecting hooks

Mark the fixing points on the ceiling in accordance with the table "Suspension point dimensioning for ceiling installation". Fix the ceiling fixing M13 x 1 to the ceiling. Lead the steel wires through the screw cap M13 x 1. Then screw the screw cap M13 x 1 to the ceiling attachment M13 x 1.

Screw the connecting hook with the hexagon bolt and the serrated washer M5 to the steel wire holder. Push the steel wire through the steel wire holder and adjust to the suspension height.



Connect StoSilent Modular 100 by hanging its carrier profiles into the connecting hooks and align. It is possible to re-adjust the suspension height by pressing on the steel wire holder.



Use a suitable tool to press the tab of the connecting hook outwards by approx. 25° (equivalent to approx. 5 mm). This prevents it from slipping out of the hanger.

Remove the masking film over the Sto label and clean the frame if necessary.

The detailed technical specifications and information on the products contained in the Technical Data Sheets and approvals must be observed

Mounting on the wall

StoSilent Modular 100 can be suspended in portrait format on vertical walls. Fix the element using the upper horizontal carrier profile.

Retaining elements

For each wall mounting, use 2 suitable commercially-available screw hooks, picture hooks, or similar retaining elements onto which you can hang the carrier profile. Depending on the substrate, use suitable dowels as necessary.

Installation process

- 1. Measure the installation points and the desired position on the wall in accordance with the table "Suspension point dimensioning for wall mounting".
- 2. Spacing the fixing points from the upper horizontal edge: see dimension E in the table "Suspension point dimensioning for wall mounting".
- 3. Spacing the fixing points from the lower horizontal edge: see dimension F in the table "Suspension point dimensioning for wall mounting".
- 4. Spacing the fixing points from the vertical edge: see dimension D in the table "Suspension point dimensioning for wall mounting".
- 5. Install the retaining elements correctly and in accordance with the load-bearing capacity of the substrate.
- 6. Adjust the installation depth of the retaining element according to the shape of the carrier profile. Screw the retaining elements at a clear distance of at least 5 mm to the wall. Do not allow the retaining elements to protrude further than 17 mm from the wall.
- 7. Insert StoSilent Modular 100 into the retaining element.

Suspension point dimensioning for wall mounting

Element length in mm	Element width in mm	E	F	D
3000	1250	518	2482	≤ 210
2350	1150	518	1832	≤ 190
1250	1250	228	1022	≤ 210
1150	1150	228	922	≤ 190
1150	750	228	922	≤ 125
Special dimension		On request		

• Dimensions relate to the outer edge of the element.

View: StoSilent Modular 100 wall element, 2350 x 1150 mm



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