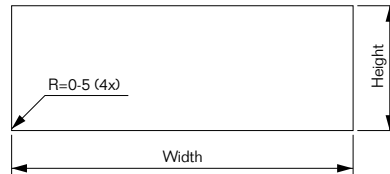


## Installation of bolted GHM and SFHM series frames

For installation of sealing system components in the frame, the latest version of the standard installation instructions (Article number: 124037, Document number 124035) are to be followed.

### Aperture dimensions

Dimensions for GHM frames.

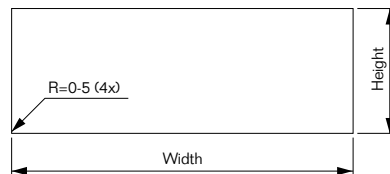


GHM frame	Height (mm)	Width (mm)									
		x1	x2	x3	x4	x5	x6	x7	x8	x9	x10
2	128										
2+2	241										
2+2+2	354										
4	187										
4+4	358										
4+4+4	530	148	278	409	539	670	800	931	1061	1192	1322
6	245										
6+6	475										
6+6+6	705										
8	305										
8+8	595										
8+8+8	885										

Height and width tolerance  $\pm 5$  mm

### Aperture dimensions

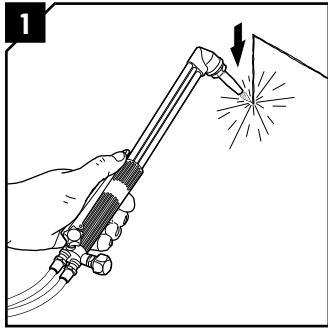
Dimensions for SFHM frames.



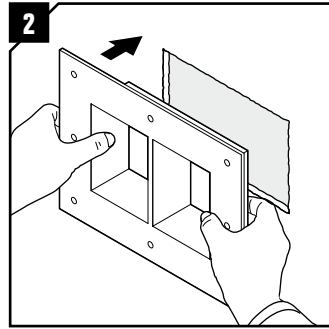
SFHM frame	Height (mm)		Width (mm)									
	1 opening in width	>1 opening in width	x1	x2	x3	x4	x5	x6	x7	x8	x9	x10
2	141	141										
2+2	252	262										
2+2+2	363	383										
4	200	200										
4+4	369	379										
4+4+4	539	559	161	291	422	552	683	813	944	1074	1205	1335
6	258	258										
6+6	486	496										
6+6+6	714	734										
8	318	318										
8+8	606	616										
8+8+8	894	914										

Height and width tolerance  $\pm 5$  mm

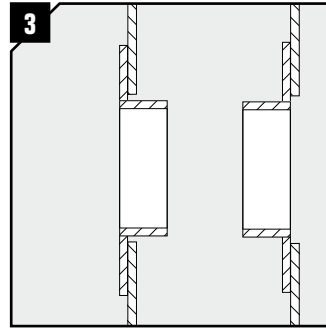
# Installation



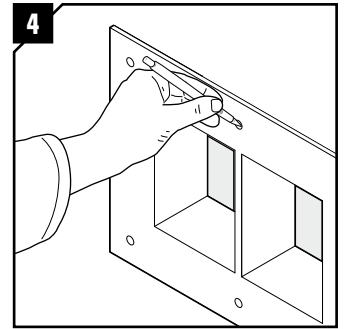
Use a suitable tool to make the aperture in the structure. See table for aperture dimensions.



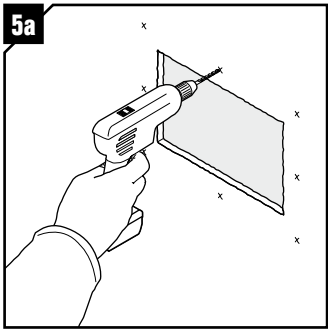
Insert the frame into the aperture.



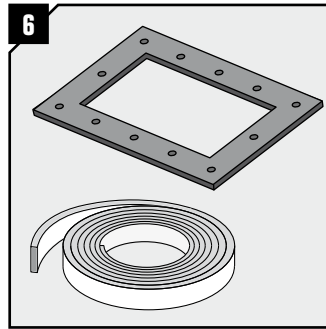
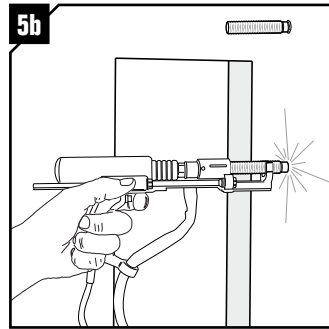
Alternative frame installations.



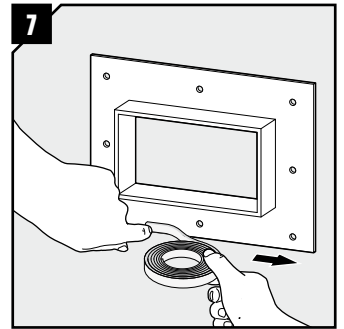
Center the frame in the aperture and use it as template for the flange hole pattern.



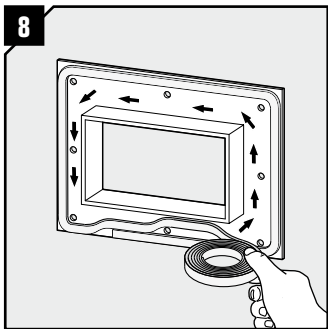
Remove the frame and drill the holes for the bolts. Alternatively use welding stud bolts to avoid through-holes.



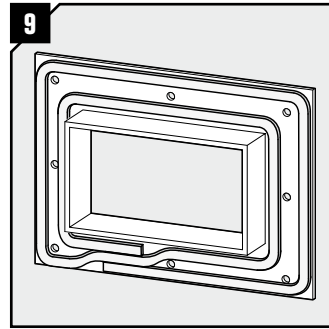
To seal the frame against the structure, apply TSL 15x6 sealing strip or a pre-punched gasket.



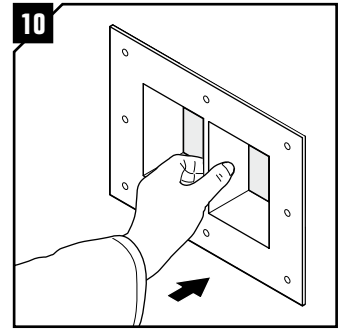
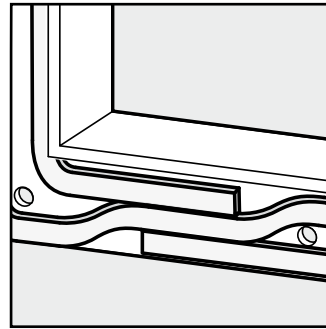
When using TSL 15x6, attach the end of the sealing strip to the frame.



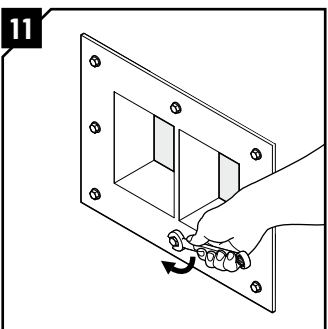
Apply two rounds of sealing strip.



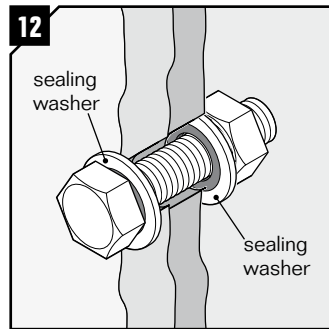
Cut the sealing strip so that it overlaps as shown in the picture. Make sure that the sealing strip parts are mounted tightly against each other in the overlap section.



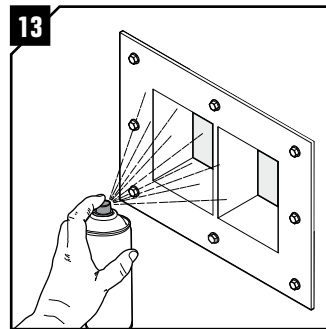
Attach the frame to the structure.



To complete the installation, tighten the nuts crosswise according to your selected fasteners.



Fasteners are recommended to be of the same material type as the frame. Through-holes must be sealed using sealant or sealing washers.



Primed frames are only treated with a transportation protection and need additional coating.

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