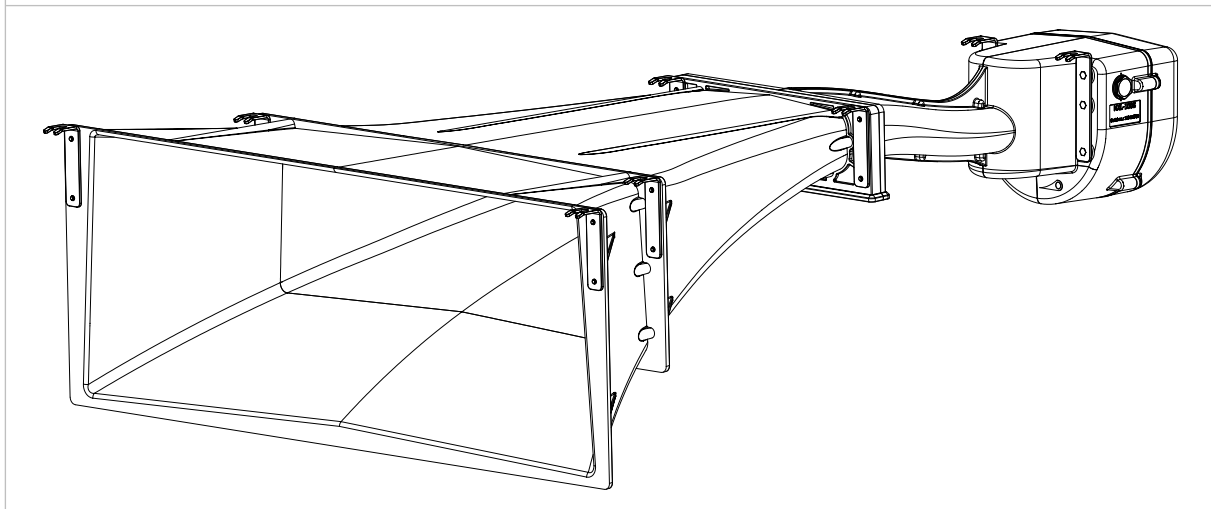


MANUAL

Product	NXL-100S	Part numbers	0200201, 0200203, and 0200205
Document version	1.0	Document status	Release
Notes	Full Height product variant 0200201 = Standard with cable gland on left side (front view) 0200203 = Optional Hirschmann CA 3 GD* on left side (front view) 0200205 = Optional Hirschmann CA 3 GD on right side (front view)		

MOUNTING INSTRUCTIONS

This document describes the detailed mounting instructions for the NXL-100S advanced tunnel horn loudspeaker.

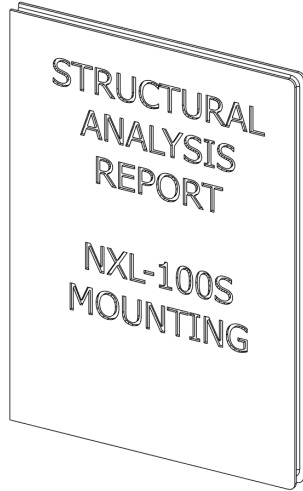
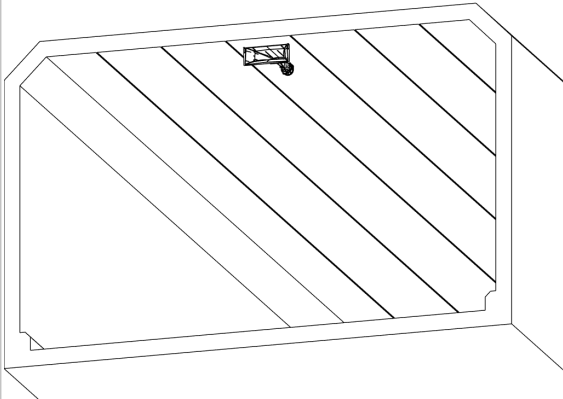
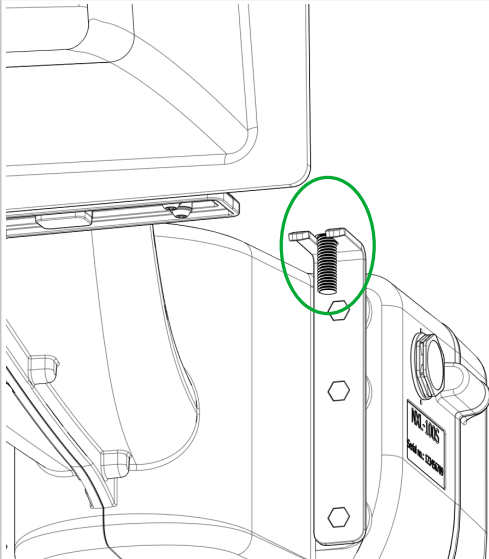


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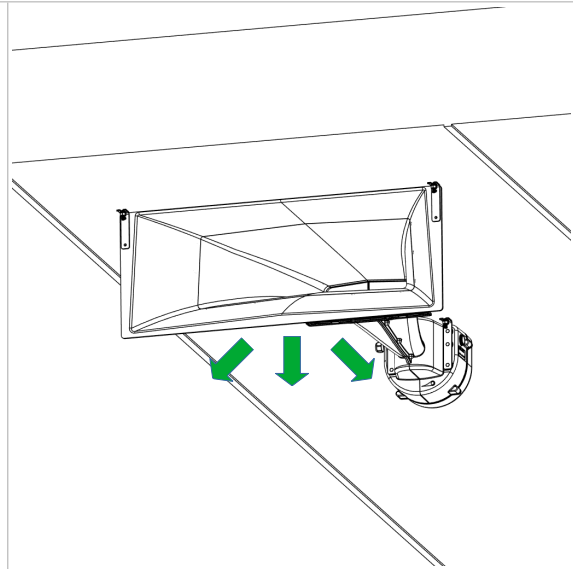
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* Product names such as Hirschmann CA 3 GD mentioned in this document are the property of their respective owners. The use of these names is solely for identification and reference purposes. NXD-Audio BV does not claim any ownership of the trademarked names mentioned.

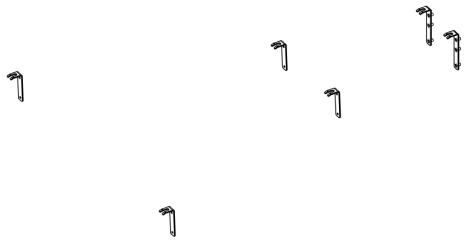
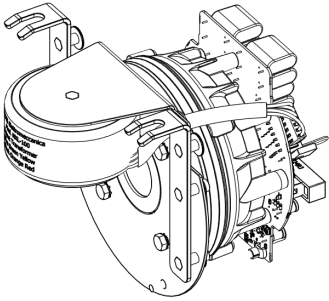
SETUP

1.	Before proceeding with the installation, it is essential to conduct a comprehensive structural analysis of the mounting surface. This analysis should include the following (steps 2^a, 2^b and 2^c below):	
2 ^a .	An evaluation of the properties of the <u>substrate material</u> to ensure it can support the load of the device, taking into account both static and dynamic forces.	
2 ^b .	A determination of the most suitable <u>mounting method</u>, considering both mechanical as well as chemical anchoring solutions.	

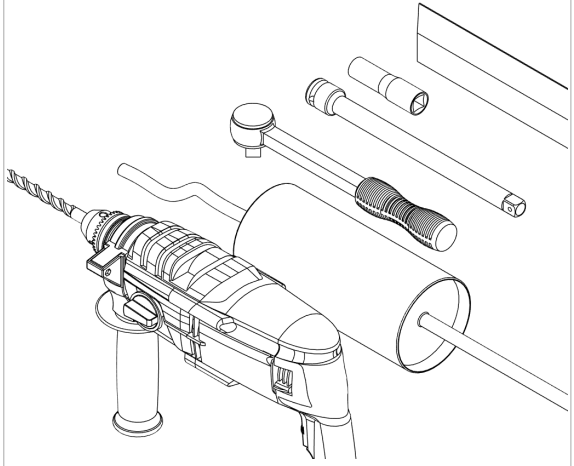
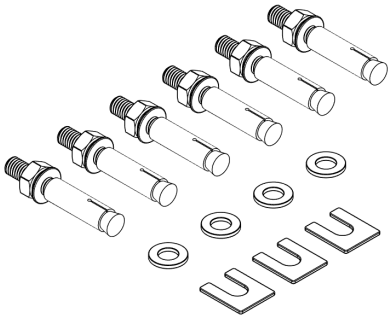
- 2^c. The application of an appropriate safety factor based on the specific installation conditions, ensuring the mounting system can support not only the device's load but also any additional loads or stresses that may occur during its lifetime.



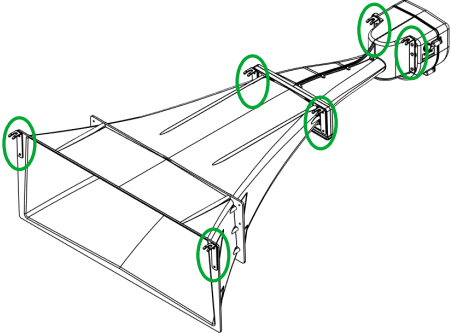
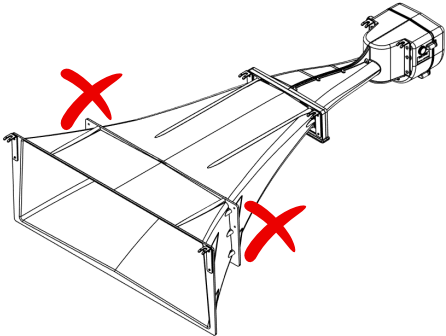
SAFETY INFORMATION

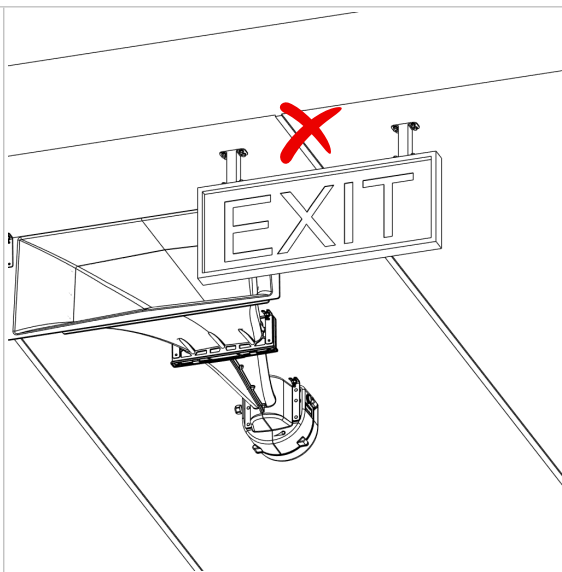
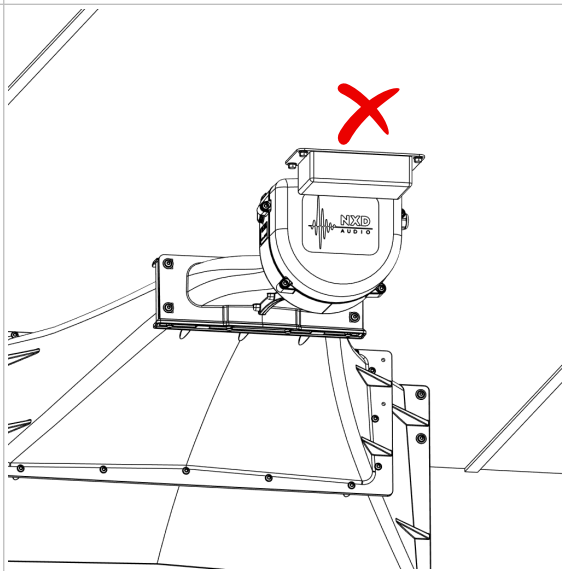
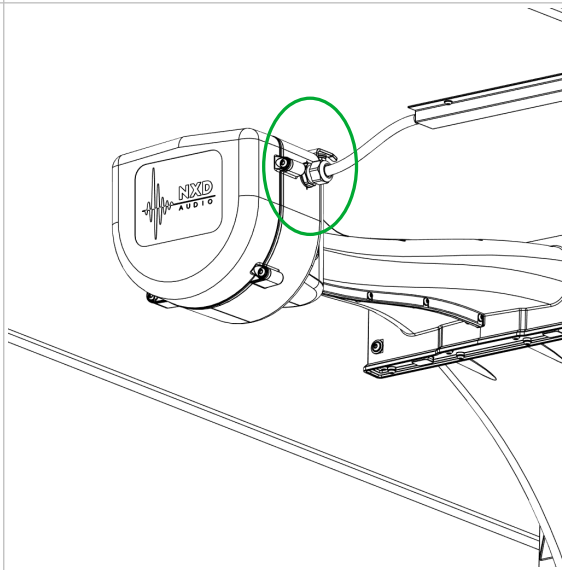
1.	Only use the <u>supplied brackets</u> to mount the device.	  Use supplied brackets
2.	To attach the brackets to the horn, only use the <u>supplied fasteners</u> as shown in the assembly instructions.	  Use supplied fasteners
3.	Use <u>all supplied brackets</u> to mount the device. Note that the rear brackets also mechanically secure the relatively heavy internal subframe.	

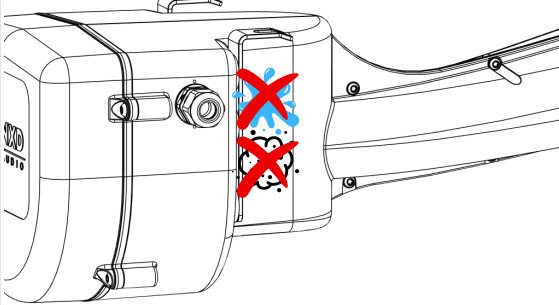
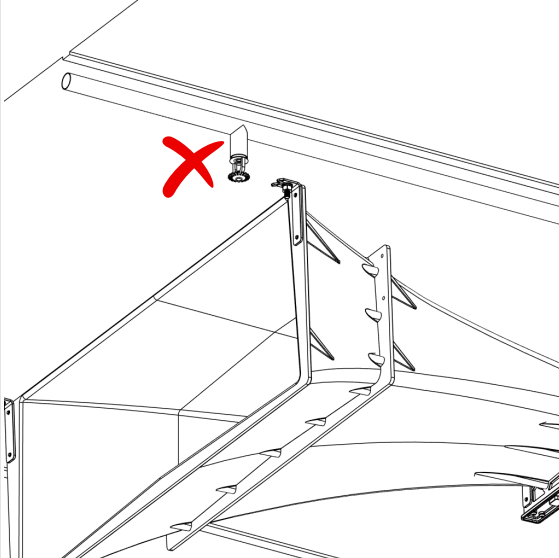
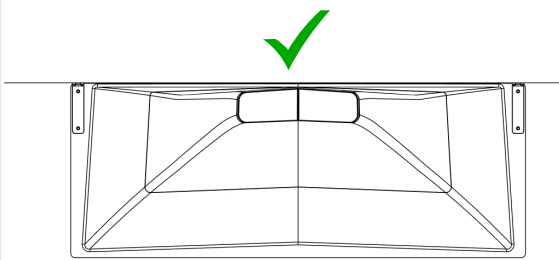
REQUIRED TOOLS AND PARTS

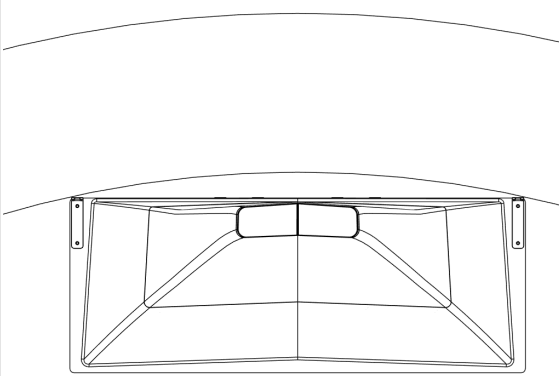
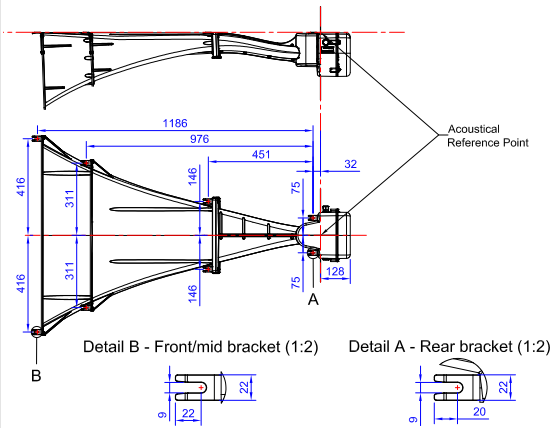
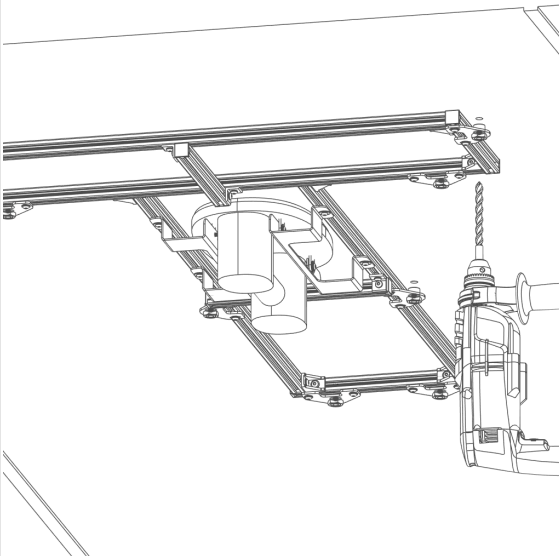
1.	Note that this is a general overview, always follow the instructions that apply to the selected anchoring solution. The following tools are typically needed: A hammer drill and appropriately sized drill bit. Hole cleaning equipment such as brushes, vacuum attachment or a blower pump. A half inch ratchet with drive extensions and long socket to tighten the nuts on the anchors. A long straight-edge to verify the flatness of the mounting plane.	
2.	The following parts are typically required: Anchors with washers and nuts. Leveling washers or slotted shims.	

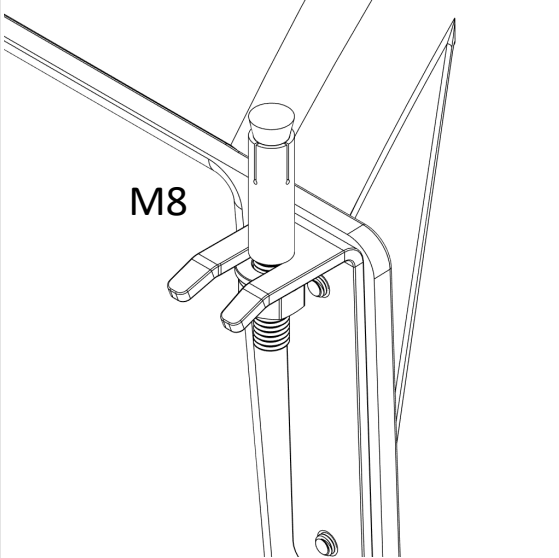
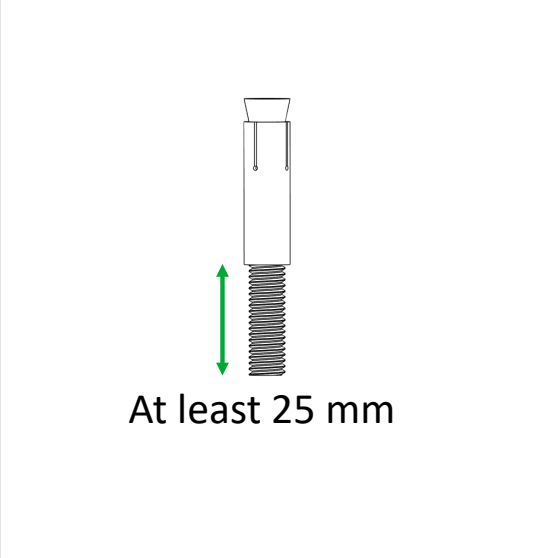
PREPARATION

1 ^a .	Verify that the NXL-100S has its mounting brackets properly fitted on the right positions.	
1 ^b .	Note that the brackets on the mid section are typically omitted, these are only used for the variant with reduced height and length (the NXL-100S-RH).	
2.	The mounting locations and orientations as prescribed by the electroacoustic survey should be validated.	  

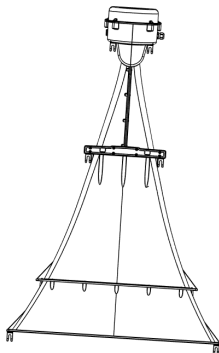
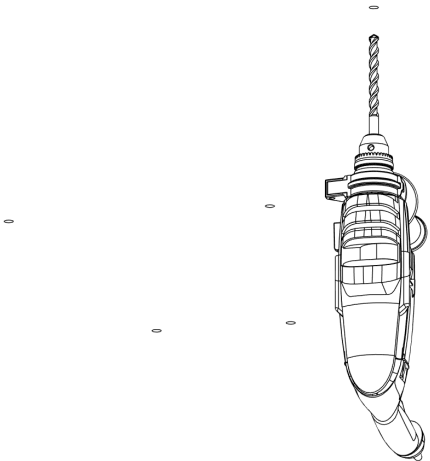
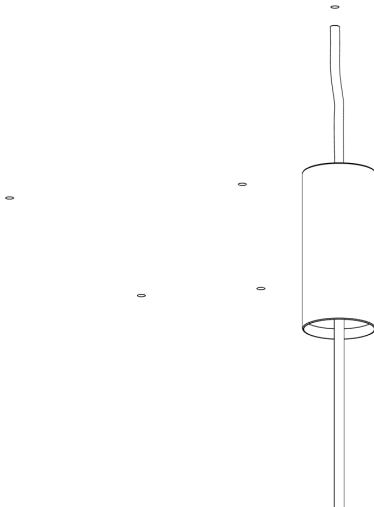
3^a.	Sufficient clearance around the device is required. Signs, junction boxes or other items should not be projected too close to the mounting location. These infrastructure items can have an adverse effect on acoustic performance. If in doubt, consult the electroacoustic designer.	
3^b.	It should also be possible to remove the rear cover and access the rear enclosure for electrical connection or servicing.	
4.	Verify whether the proposed connection cable route is feasible. As standard, the device is equipped with a cable gland that is located on the indicated position. However, other variants also exist, such as with fixed connector or with cable entry located on the opposite side. Therefore, always check the product in question.	

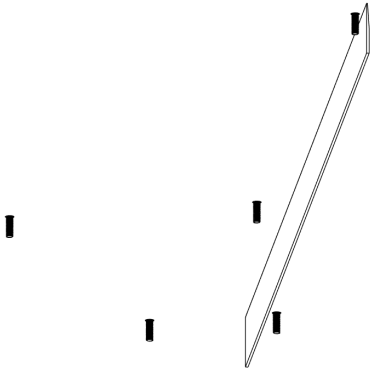
5.	Take the necessary precautions against the ingress of dust and moisture through the cable gland as long as there is no cable in it.	
6.	Also direct water ingress into the horn mouth, for example due to sprinkler or deluge systems, should be avoided.	
7 ^a .	For optimal acoustic performance, the unit should be <u>mounted flush</u> with the ceiling or boundary plane.	

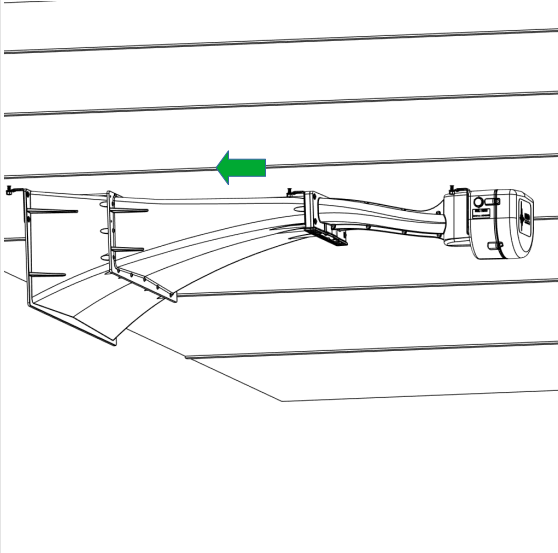
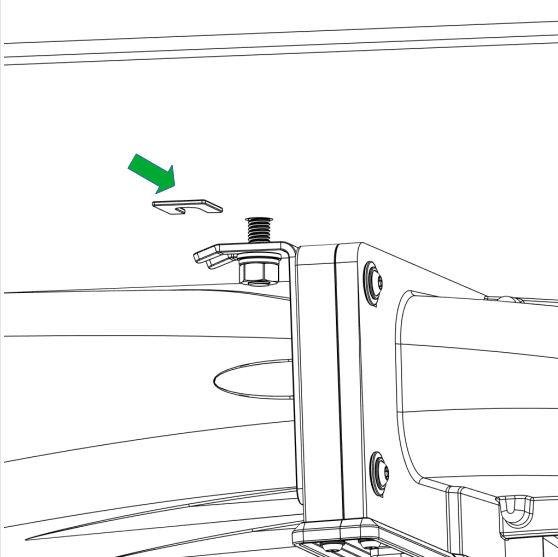
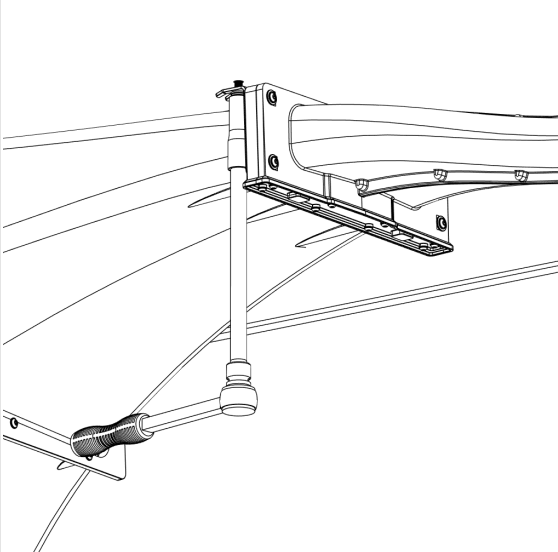
7^b.	If this is not feasible, for example due to a curved mounting surface, the detrimental effects of non-flush mounting should be investigated prior to installation.	
8^a.	The required mounting hole pattern is stated in the device datasheet. Make sure the holes are drilled accurately to <u>avoid stress</u> on the device.	
8^b.	Using a drill template or semi-automated drilling method can be a real time saver here.	

9^a.	The mounting brackets are designed for anchors of size M8.	 M8
9^b.	For smooth installation, the threaded part must protrude at least 25 mm. The total anchor length will then be known from the structural analysis report.	 At least 25 mm
10.	The bracket material is stainless steel AISI 316. Use a compatible material for the anchors and fasteners to prevent galvanic corrosion.	 AISI 316

MOUNTING

1.	Follow all applicable safety and health procedures during mounting.	  Follow safety procedures
2.	Mark and drill the holes. Make sure that the device remains free of drilling dust during this operation.	
3.	Clean the holes by using a brush, vacuum or a blower pump.	

4.	Install the anchors according to the manufacturer's instructions.	
5.	Verify the flatness of the mounting plane by using a long and rigid straightedge, such as a metal ruler or level. Place it across the mounting surface, spanning between multiple mounting points. If the total mounting plane flatness is not within plus or minus 1 mm, leveling washers or shims must be used to compensate. This helps to prevent stress on the device when the mounting anchors are tightened.	
6.	Add the washers and nuts on the anchors. Leave a clearance to the mounting surface of about 10 mm.	 Clearance 10 mm

7.	Now bring the device in position and slide it forward. Make sure that the anchors slide into the slots for all brackets.	
8.	Place the leveling shims if applicable.	
9.	As a last step, tighten the nuts on the anchors gradually and finally tighten them to the specified torque.	

DOCUMENT REVISION

1.0	06-07-2026	Start version.
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