

ACOUSTIC 350 MAXI BOOTH

ASSEMBLY MANUAL

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1-PRODUCT DESCRIPTION

The ACOUSTIC 350 MAXI BOOTH is a device designed for hearing testing in human subjects, being fitted with illumination and ventilation systems controlled manually from a switch placed inside the booth on the roof. The front jack panel is designed for the connection of a professional audiometer

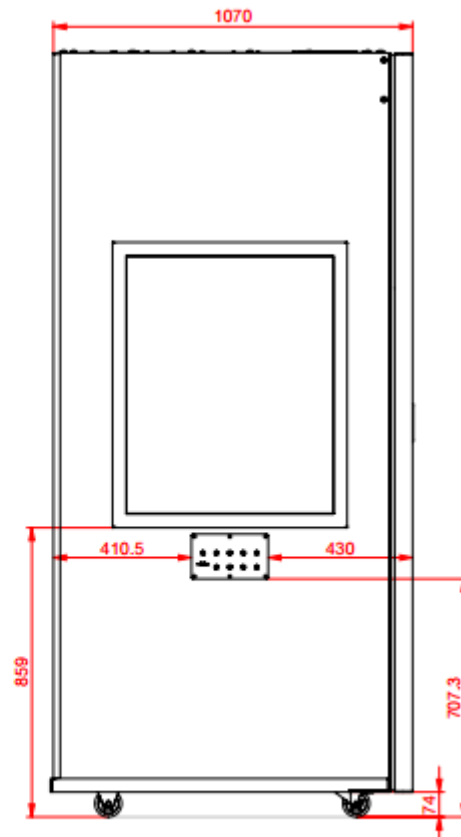
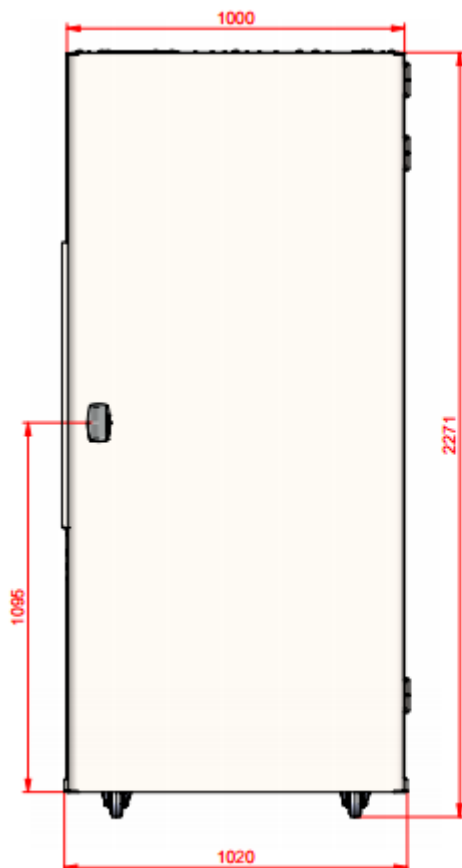
Overall dimensions

Outside

- width = 1020 ± 10 mm
- depth = 1070 ± 10 mm
- height = 2271 ± 10 mm

Inside

- width = 894 ± 10 mm
- depth = 952 ± 10 mm
- height = 1995 ± 10 mm



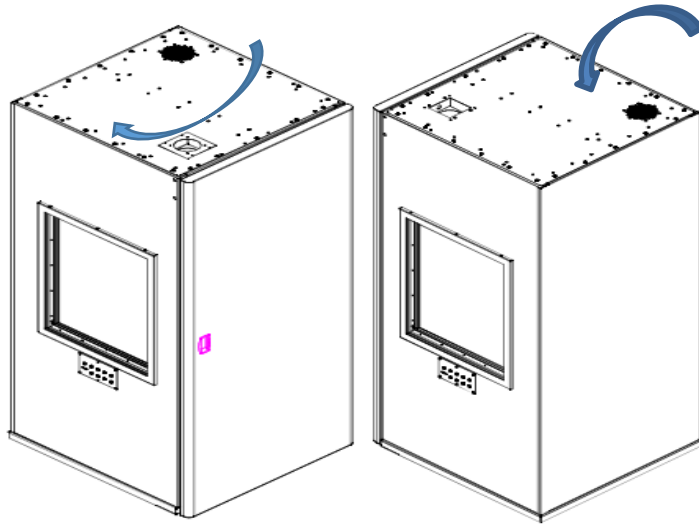
Standard types of 350 booths

The ACOUSTIC 350 MAXI BOOTH is available in two standard configurations, type 1 – door opening right hand and type 2 – door opening left hand.

For choosing the correct place to install it in a room it is important to know the booth type prior to installation .

The ACOUSTIC 350 MAXI BOOTH is usually supplied as a kit.

As well as two standard models, customized booths may be manufactured at request.



Weight

The weights of the main components are :

- door panel = 58 kg
- window panel = 63 kg
- blank side panel = 53 kg
- rear panel = 47 kg
- base panel = 38 kg
- top panel = 47 kg

Electrical features

0.42A/420mA @ 12 VCC (around 5 Watts)

JACK panel

The JACK panel is made of stainless steel or aluminum and includes the following components :

9 pcs 1/4", S4 Type BBB stereo plugs

1 piece type A, USB –mother plug .

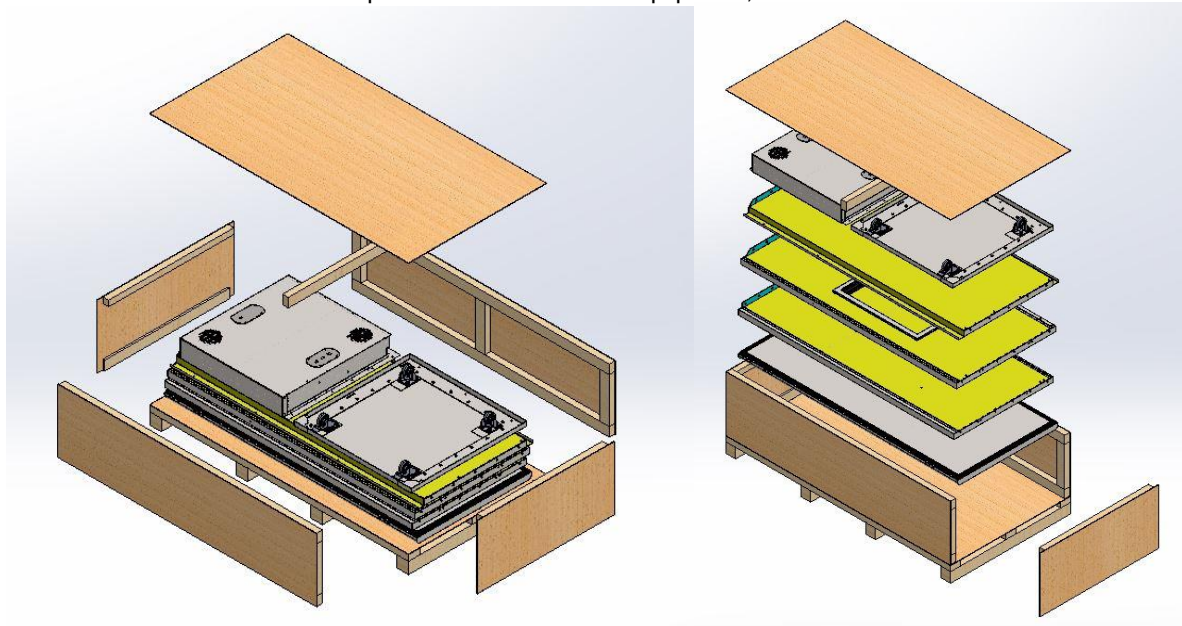


2- PACKAGING, TRANSPORT, DELIVERY, STORAGE, RECEPTION, HANDLING AND WAREHOUSING

2.1-PACKAGING, TRANSPORT and DELIVERY

The disassembled booth (mounting kit) is usually packed inside a wooden crate designed for land transportation inside trucks, trains or airplanes. Maximum 2 crates may be stacked and the standard crate is not designed for sea transportation.

The crate must be handled with professional dedicated equipment, i.e. forklift.



2.2-STORAGE

The kit must be stored inside closed and dry space and preserved from excessive natural light, wind and moisture. Up to 2 crates may be stacked one on top of the other.

2.3-HANDLING

The components are placed inside the crate in the reverse order required for assembly. They should be taken out from the crate while observing the warning labels placed inside the crate and only in an indoor space without humidity and a temperature above 15°C.

Please use the appropriate devices to move the parts based on their weight.

2.4-WAREHOUSING

The booth should be warehoused inside the original packaging. The warehouse should be a closed space, protected against humidity, mist, water, steam, salty mist, insects, rodents etc ..

Do not stack more than 2 crates one on top of the other

Whether the booth is stored more than 12 months it is necessary to conduct a proper verification of the product state by qualified personnel.

3- PACKAGING REMOVAL AND ASSEMBLY

Prior to unpack the parts, please check the presence and the state of the shock and tilt sensors installed on the outside of the crate

Warning!

If the shock sensor is red, the product was subject of shocks during handling and transportation and the state of the kit should be inspected and evaluated prior to assembly.
Where defects are observed, the damaged parts should be photographed and info sent immediately to the supplier to investigate the possible causes and to establish the possible corrective actions.

The shock sensor is placed on the top right side of the crate – please see the picture below:




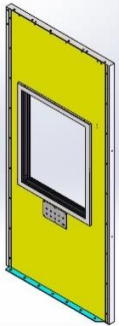


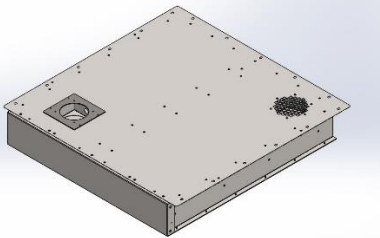
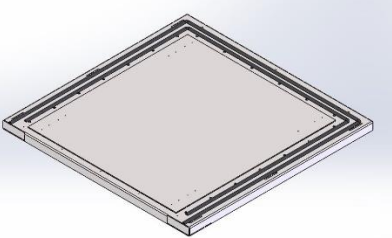
The tilt sensors position on the outside of the crate is indicated in the photo below:

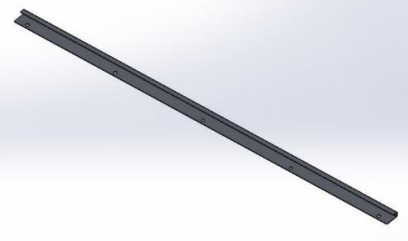
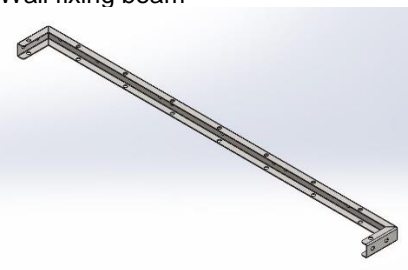
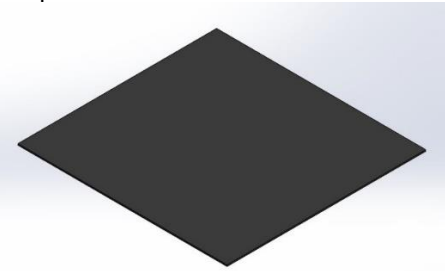


Scope of delivery

After unpacking and prior to assembly please check whether you received all components and accessories according to the table below.

LIST OF LOOSE PARTS DELIVERED INSIDE THE CRATE		
Quantity	Description	Received/ Missing
1	Door 	
1	Side window panel	

		
1	Side blank panel 	
1	Back wall 	
1	Top panel 	
1	Base 	
1	Aluminum threshold	

		
1	Wall fixing beam 	
1	Carpet 	

LIST OF PARTS DELIVERED INSIDE THE CRATE PACKED INTO PLASTIC BAG AND CARTON CRATE

Quantity	Description	Received/Missing
20	10642 SS SCREW A2 IMBUS RoHS compliance M8X20	
4	SS FLUSHED HEAD SCREW M4 X 12CSK TORX A2 70	
4	38605 WHITE PLASTIC PLUG	
2	161015911302-100 161 WHITE PLUG	
1	ALLEN KEY (Imbus) Tool 5 mm (for. hex. M6) L=>80mm	
41	Allen Key (Imbus) SCREW M8X25-07151.080.025 I7380 010.9	
39	GROWER WASHER M8 DIN 127 /ZA	
39	WASHER A8 OL DIN125	
5	SCREW 4x12	
1	SS HANGER	
2	SCREW DIN 7981 3,5X 19 ZN (for hanger)	
9	HEX NUT M8 Zn	
3	HINGE BOLT inclusive of WASHER	
1	POLYMAX MASTIC SYLICON 300	
1	DOOR HANDLE	
1	GREY LABEL	
1	PSU Power supply unit 12V, 2.5A	
1	POWER SUPPLY CABLE 5.5mmx2.1mm stecker	
1	DOCUMENTS FOLDER	



INSTALLATION

IMPORTANT: Prior to installation ensure that the room floor is leveled (use a level)

General Information

At least two qualified operators are required to perform the steps described in this manual.

The booth should be installed indoor, on the spot chosen for it as the dimensions do not allow to move it inside a building provided with standard access rooms.

Required tools

To install the ACOUSTIC 350 MAXI BOOTH the following tools are required:

- screwdriver with standard and cross heads
- level
- allen (inbus) key hex 5 mm (supplied inside the crate KIT)
- mastic gun

Step 1-Place the base on the floor

Remark: Use the brakes on the front wheels to locate the booth in place.

The brakes should be unlocked only if it is necessary to place the booth in position. These standard wheels are designed for movement on short distances only, i.e. up to 10 meters when the booth is assembled.

Ensure that the building floor is levelled (using a level long enough).



Step 2-Place the backwall on position

Place silicon for sealing on the side edges of the backpanel before placing it on the final position.

Remark: The backpanel should be lifted at least by 2 people, one operator should hold the panel while the other is fixing it using flushed screw and the inbus toolkey.



Step 3- Place the blank side wall

Remark: The blank side wall should be lifted on the assembly position by at least 2 people, one operator should hold the panel while the other is fixing it to the base by using flushed screws and the allen (inbus) key.

Locate the side nuts into the slots, then push it back until it comes on the correct position (aligned with the backpanel and the base) and fix it to the base with flushed screws. Prior to screwing the screws completely, the panel should be checked using the level and adjust until it is flush with the rear panel.

Tip: It is much easier to place the backpanel correctly if one tilts it at 10-15 degrees (provided there is available space).



Step 4- Place the walls suport beam

Remark: Mount the fixing beam using the M8x25 screws , as follows:

- place the screws in position and loosely tighten, only as needed to pull the backwall into the final position (see step 6)
- place the screws on the blank side panel and screw them incompletly



Step 5-Place the window side panel

Remark: The side window panel shall be lifted into the assembly position by at least 2 operators, one operator should hold the panel while the other fix it to the base panel using the flushed head screws and the hex wrench supplied with the product. Place the side shifts into the special slots, then push back until the panel goes to the position (aligned with the back panel) and will be fixed to the base panel with flush head screws.

Prior to secure the screws check using the level the planearity of the window panel. Tip: It is much easier to place the windows side panel correctly if one tilts it at 10-15 degrees (provided there is available space).



Step 6- Final assembly

Remark: Once the panels are on their place check again whether the 2 side panels are totally aligned with the backpanel, all the fixing devices should then been fixed using the hex tool from the product crate. Do not torque excesivly in order not to deform the parts.

Mounting steps :

1-tight completely the screws on the lower side

2-tight completely the screws on the beam which fixes the side panels

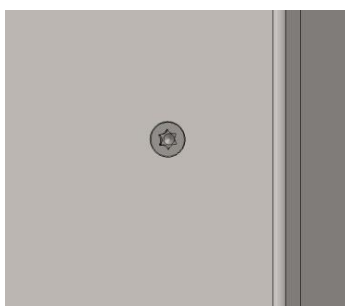
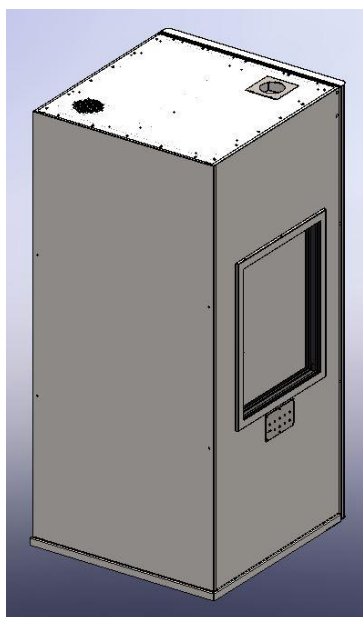
3-tight at half the screws on the backpanel from center to outside

4- tight completely the screws on the backpanel from center to outside

5-tight (secure) the backpanel with 4 screws and use the white caps delivered with the product for masking them

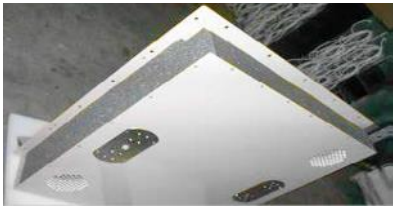
Remark: The screws of the beam support act like a whinch to pull completely the side panels onto their final position. Ensure that there aren't any gaps left between the panels.

6- Use the 4 screws with flushead to prevent the backwall from staying loose. Use the 4 white plugs to mask these screws



Step 7-Verification of sealing sponge

Check the positioning and fixing of the sponge on the top panel.



Step 8- Verification of felt

Check whether the felt is correctly placed and fixed on the wall panels.



Step 9-Placement of top panel

Remark: Prior to assembly the top roof, check whether the guiding pins are in position (4 pcs).

The top panel is complete with electrical components, thereafter it should be handled with extreme care; 2 people are needed to lift the top panel and slide it on the mounting position. One operator should lift it from the front side in such a way that the slots go on their places, then the other operator should place the front side on its position onto the back wall and side walls with extreme care. Remark: If the top panel doesn't go easy on its position, one operator should slightly lift the top panel (from inside the booth) while the second operator pulls the two side walls until the fixing guides appear.

WARNING !

It would be easier to have a third operator helping on this step.



Remark: The front side of the top panel and of the side panels should be perfectly aligned in order to get a correctly aligned door and a good sealing of the booth.



Remark : The booth should look like the photo below when this assembly step is over.



Step 10- Fixing and securing the top panel

Remark: Due to the extreme height of the booth, the available space for positioning and fixing the screws onto the top panel is limited; we suggest to use the hex wrench supplied with the product or a portable electrical wrench. Please ensure that all screws are on their fixing position and tight them completely with extreme care.



Step 11-Final fixing of the side panel



Remark: The blank side wall is provided with two holes for additional fixing with screws. Tight the screws and then use the white plastic caps to mask these holes.

Step 12- Fixing the threshold



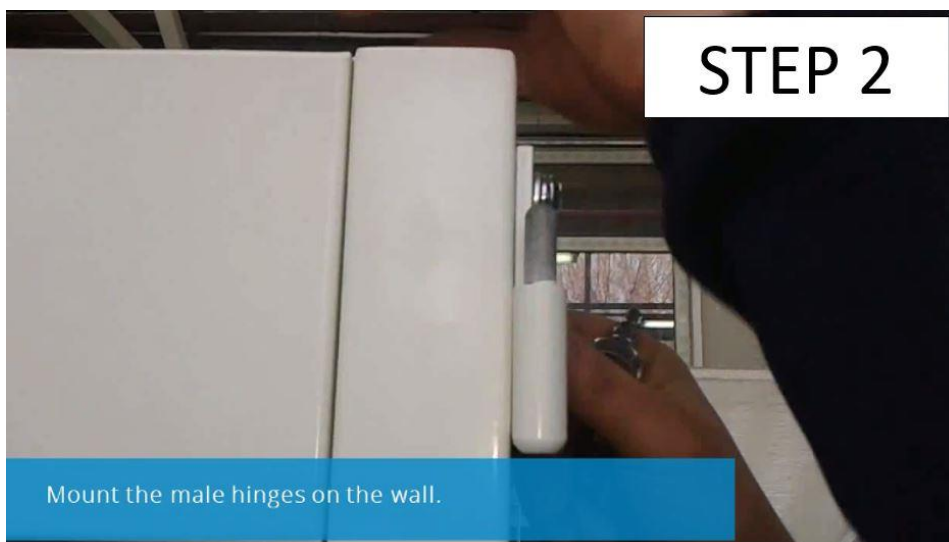
Remark: The threshold should be fixed onto the base panel using the 5 screws M4x10 and then place the carpet in position. To place the carpet, unglue the paper protection of the adhesive tape placed on the back of the carpet.

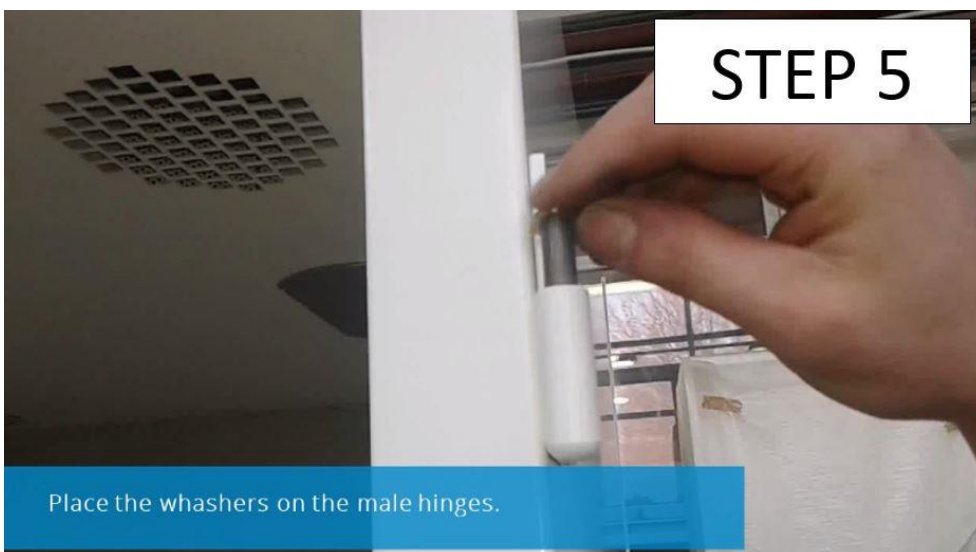
Step 13-Positioning and fixing the acces door

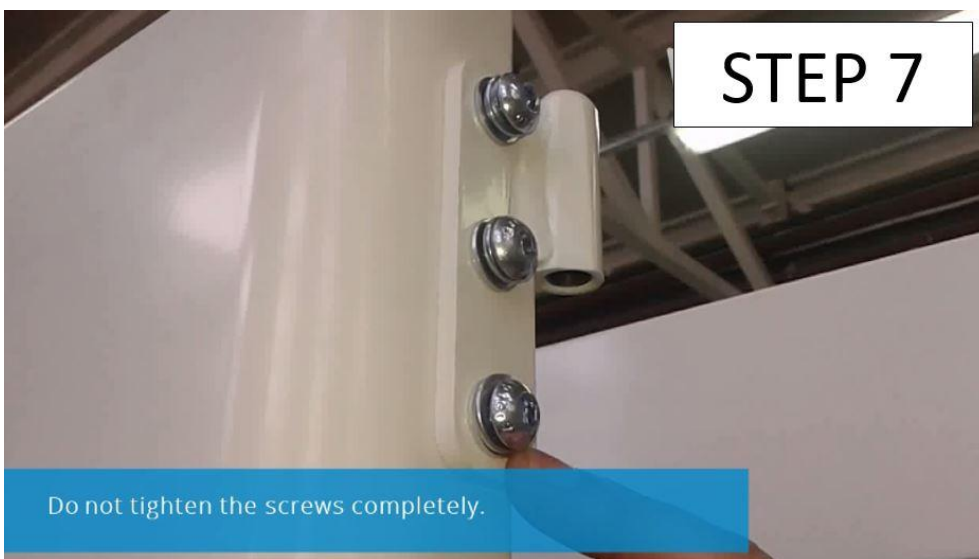
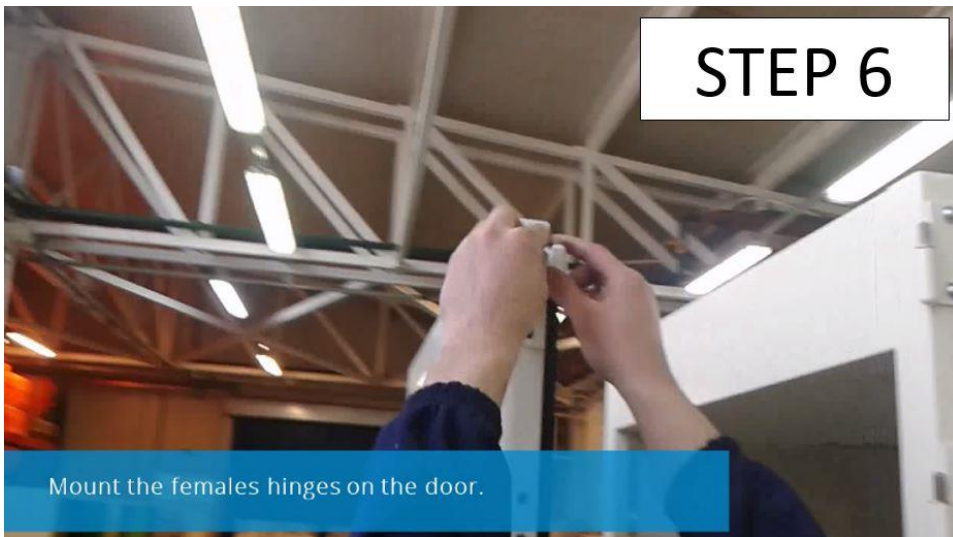
Remark: The door should be lifted on its position by at least 2 operators; place the door on the 3 hinges located on the blank panel and fix it carefully to avoid the damaging of the gaskets fitted on the door.

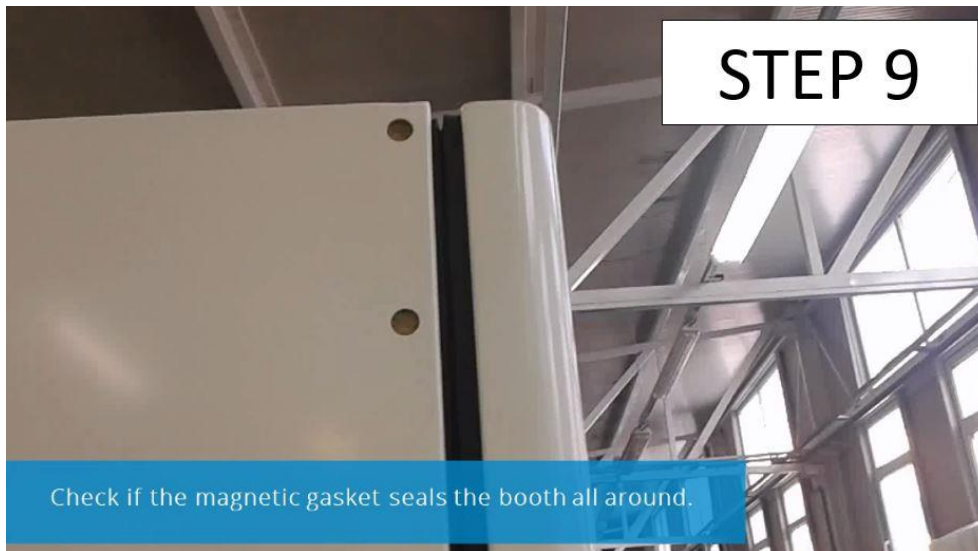


essential







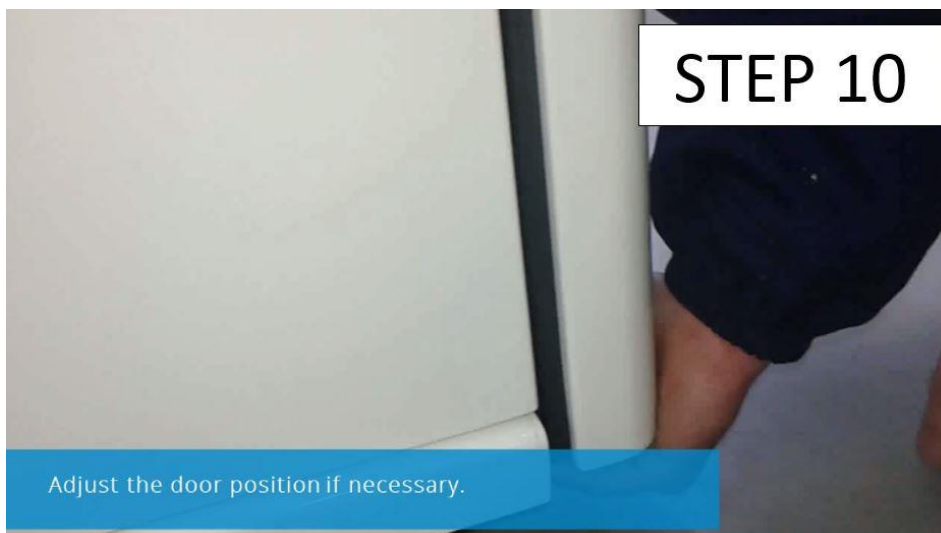


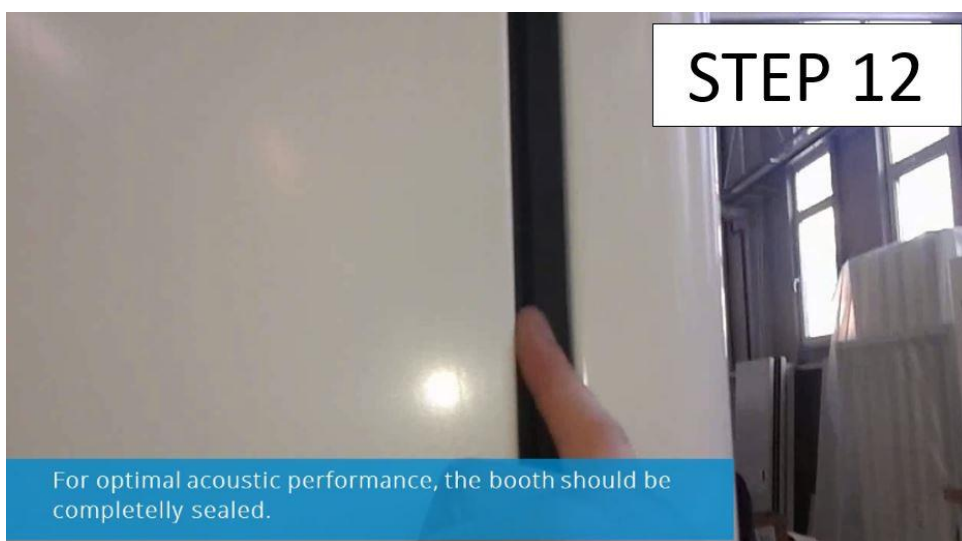
Step 15-Adjustment of the door

Remark: The door should be held in the correct position by one operator.

The door adjustment must be performed only from the lower hinge. The two top hinges should be fixed and the screws of the bottom hinge should be loosen; then the door should be aligned on the front side of the booth. The screws should then be completely tighten using the hex wrench supplied with the product.

The hinges are provided with elongated holes to be able to provide a correct alignment and sealing.





Step 16-Fixing the door handle

Front view



Top view



350 RH



350 LH



Step 17-Fixing the carpet

The carpet is fixed on the base using the adhesive tape.

Remark: The edge of the carpet should be placed under the threshold

step I



step II



step III



step IV



Step 18- Fixing the hanger

Remark: The hanger is fixed onto the window panel according to the photo below.



Step 19 - Label placing and positioning

Position the label inside the door near the gasket on upper corner (hinge side).

Remark: The booth is supplied with the serial number label which is important for the traceability at the manufacturer and supplier.

Remark: when the assembly is over, the front wheels should be unlocked and the booth moved to the final position and then the front wheels must be locked.

Step 20 – Unlock of the front wheels



4-COMISSIONING AND OPERATING INSTRUCTIONS

Environment conditions

- Maximum environment temperature :+35 C
- Minimum environment temperature :-0°C
- Humidity : max 50% at 20° C
- The environment should be free of dust, steam, gases, flammable vapours, corrosive or salty agents

Electrical connections





- connect the power supply to the cord
 - connect the power supply to the plug located on the top of the booth
 - plug the power supply to the network using the appropriate plug adapter
- The light and ventilation devices are controlled from the switch placed in the roof plates.

Warning !

Unplug the booth from the power network when it is not in use.

Operating instructions

We suggest the use of a standard chair (not provided with the kit) to ensure the patient comfort during the hearing tests inside the ACOUSTIC 350 MAXI BOOTH.

The technician should stay in the front of the window which is sandblasted in the bottom half to keep the patient focused on the test.

Connect an audiometer to the jack panels according to the instructions provided by the audiometer manufacturer.

The audiometer patch cords should be shielded against EMC.

Only one person – the patient – should stay inside the booth during the audiological tests and the technician should be in charge with opening/closing the door and check the proper operation of the booth.

The patient should be monitored continuously.

5- HEALTH AND SAFETY

The booth does not pollute the environment or endanger the life, safety and security of the operating personnel.

The product has been designed, manufactured and tested to protect the operating personnel against:

- fire –by using flame retardant materials and materials with high resistance against fire.
- mechanical dangers – by not providing cutting edges nor movable parts which may cause injuries and by providing a superior mechanical rigidity and high rigidity of the booth.

The dangers are signalized through warning labels and specific work instructions.

6-MAINTENANCE

The powder coated surface should be cleaned and checked every 3 months.

The powder coated surface should be cleaned with a soft brush or cloth, using mild soap and very warm water.

Soaps that have emulsifiers that break down common stains and are scum free are the best to use. The exposed surfaces of powder coated products that are most critical should be cleaned weekly or bi-weekly.

For stubborn stains removal we recommend the use of white spirit. Cleaning with white spirit should be carried out in the shade and during cooler temperatures using a soft cloth and gentle wiping only. It is also recommended that a small non-visible area be tested initially to ensure that no color change or damage will occur.

Warning

Do not use under any circumstances strong solvents such as thinners or solutions containing chlorinated hydrocarbons, esters or ketones. Abrasive cleaners or cutting compounds should not be used.

For surface maintenance lightly wax the coated surfaces with a high grade, non-abrasive car wax that contain U.V blocker and/or U.V. inhibitors. Do not use compound waxes that contain abrasives and be sure to wipe off any residual wax. Wax that may remain on the coated surface could bake on in the ultra violet light from the heat of the sun and cause permanent staining.

Any mechanical damage to the painted surface, i.e. scratches, knocks, leads to the loss of corrosion protection and accelerates the rust process in the damaged area as well as on the entire surface. The corrosion protection can be restored only by re-painting of the entire surface on the manufacturer painting line, applying the entire painting flow.

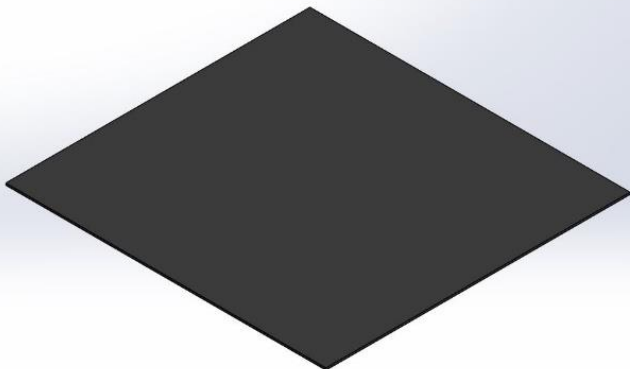

7- ENVIRONMENT PROTECTION



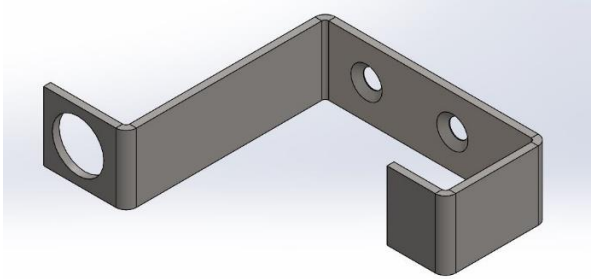
The booths are designed, manufactured and tested in respect of the environment. The materials used in the manufacturing process belong to "not dangerous materials" group and "non polluting" equipment. The noise level of the products are under the allowed noise threshold. The electromagnetic field do not impact on the functionality of the technical equipment nearby and do not exceed the standard limits. At the end of life of the products, the owner has to dispose the booth according to the specific laws and regulations of the country where it is operated, in respect with the environment.

8- WARRANTY AND TECHNICAL ASSISTANCE


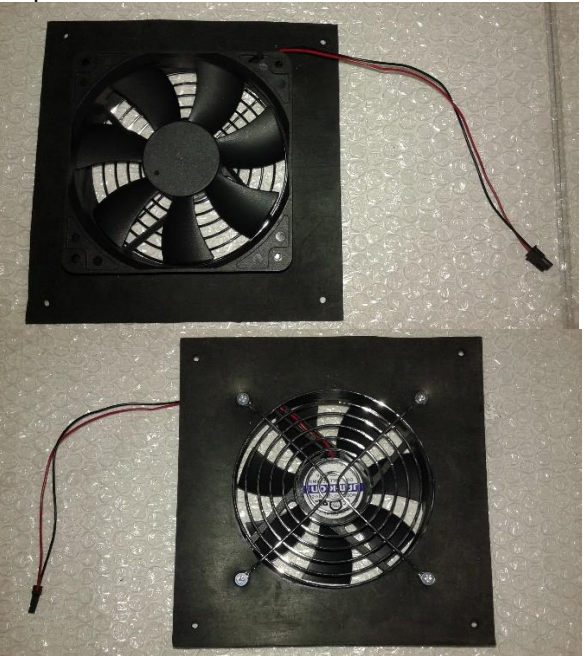

The warranty of the product is according to the customer's agreement with the seller.


It is important to inform the seller about any quality issue as soon as it is discovered, providing with the claim at least the product serial numbers, a problem description and photos explaining the issue; we recommend the customer to stop using the product as soon as a quality issue is discovered and restart work after the seller answer is received. The manufacturer recommends the following list of recommended spare parts to be ordered by the customer and kept as a reserve for fast correction of the possible problems (this list is not included in the standard delivery)

#	Ordering code	Description
1	MD-0-ANP59	Carpet for 350 booth 
2	1091-91	Door handle 
3	CM-SODA-IAC350	Fastners set for 350 booth

		
4	CM-SDG2001_RH-PJE-MM	<p>Jack panel set</p> 
5	SPF-R-0016975-15-MM	<p>Jacket hanger</p> 
6	SPF-A-0019579-15-VOP	<p>Left hinge set for 350 booth</p>

		
7	SPF-A-0019583-15-VOP	<p>Right hinge set for 350 booth</p> 
8	CM-PCLE-350-MAXI-MM	<p>Light panel for 350 booth</p> 
9	UB-1-01065	<p>Power supply unit, 1.5 m power cord</p>

		
10	CM-PCCVCEP-IAC-MM	<p>Replacement fan set</p> 
11	CM-SRF-IAC	<p>Set of wheels</p> 
12	161015911302-100 161	<p>White plastic cap</p>

		
13	SPF-SD(G)2001-10-MM	<p>Aluminum threshold</p> 