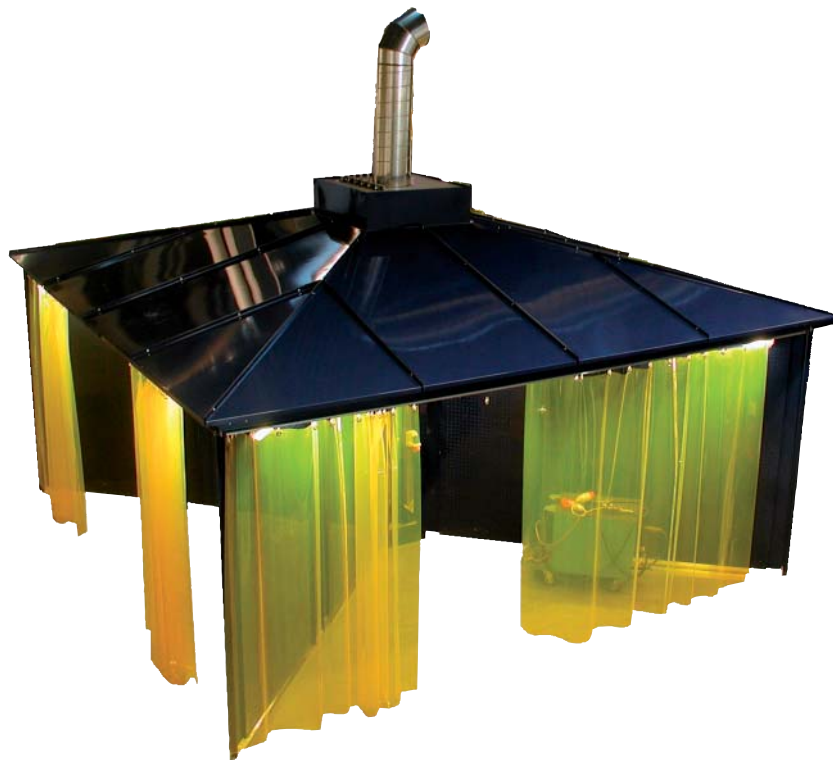




**GEOVENT**

## INSTRUCTION MANUAL



# WELDING CABINS

and sound panels

## 1.0 Application

Geovent noise reduction panels is a prefabricated sandwichpanel system, used for ex. incapsulation of noisy machines, firewalls, paintlockers office walls and for welding and grinding cabins in the industry or technical schools. The panels are standard elements, offered in different designs and sizes, and are custom made for the project.

The assmby drawings are to be seen as guides, and is for a typical assembly.

## 2.0 Examples - Geovent welding cabins



### 3.0 Technical data

Geovent Noise reduction panels is prefabricated sandwichpanels made of a core of mineral wool with a 0,6mm galvanized and polyester lacquered steelplate, glued to the core with polyuretane glue. The panels comes in thickness 50 og 100mm, with both plain (G) and perforated (P) plate.

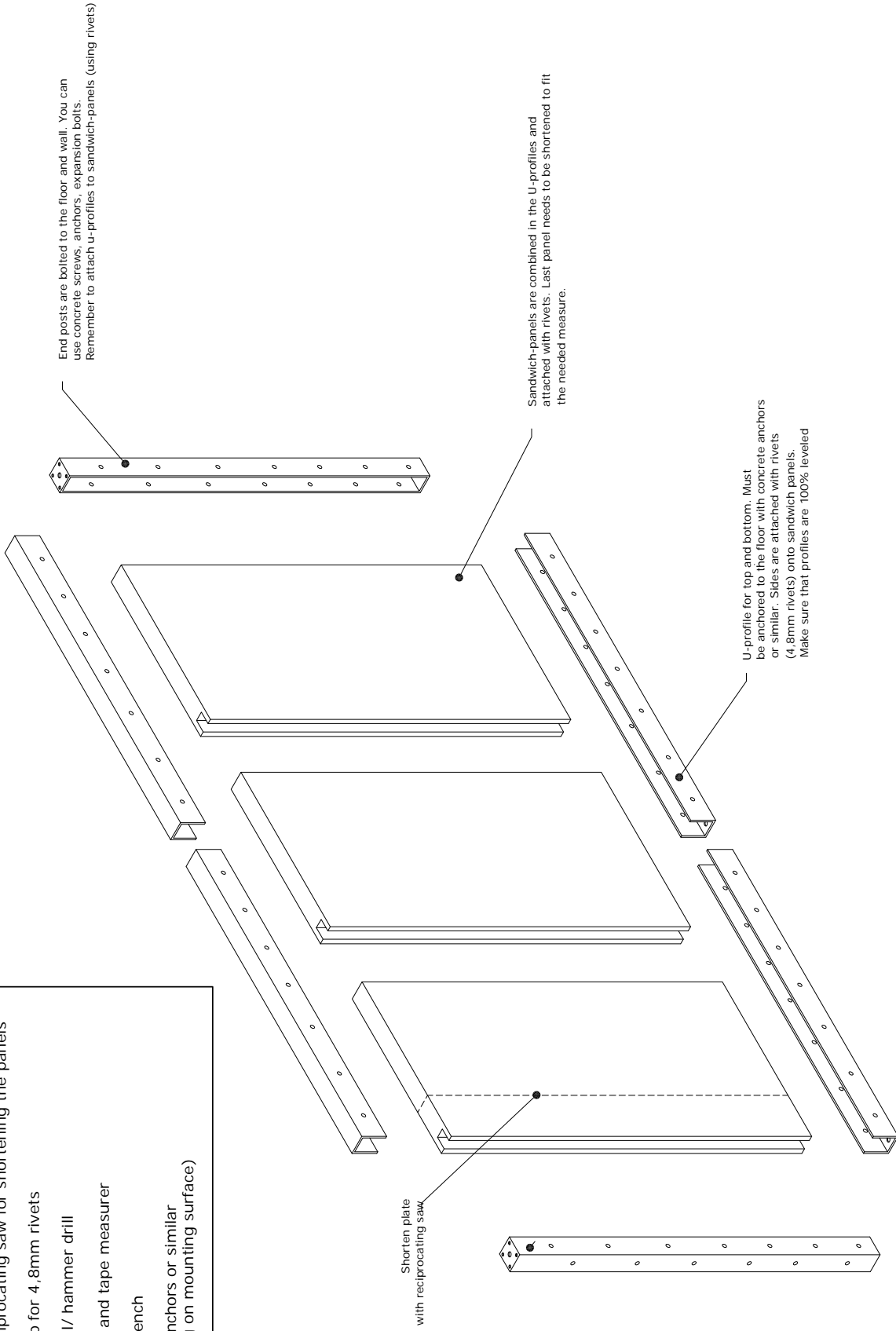
Assembly - use selfcarving screws.

#### **Noise reduction**

<b>Panel Outside/Inside</b>	<b>Hz</b>	<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>
50mm G/G	dB	21	25	29	32	36	38	42
100mm G/G	dB	28	30	32	36	39	44	49
50mm G/P	dB	17	20	20	24	25	27	32
100mm G/P	dB	23	22	22	29	29	32	39

## VERTICAL panels

Necessary tools/equipment to mount panels:  
Electric reciprocating saw for shortening the panels  
Rivet clamp for 4.8mm rivets  
Electric drill/ hammer drill  
Spirit level and tape measurer  
Crescent wrench  
Concrete anchors or similar  
(depending on mounting surface)



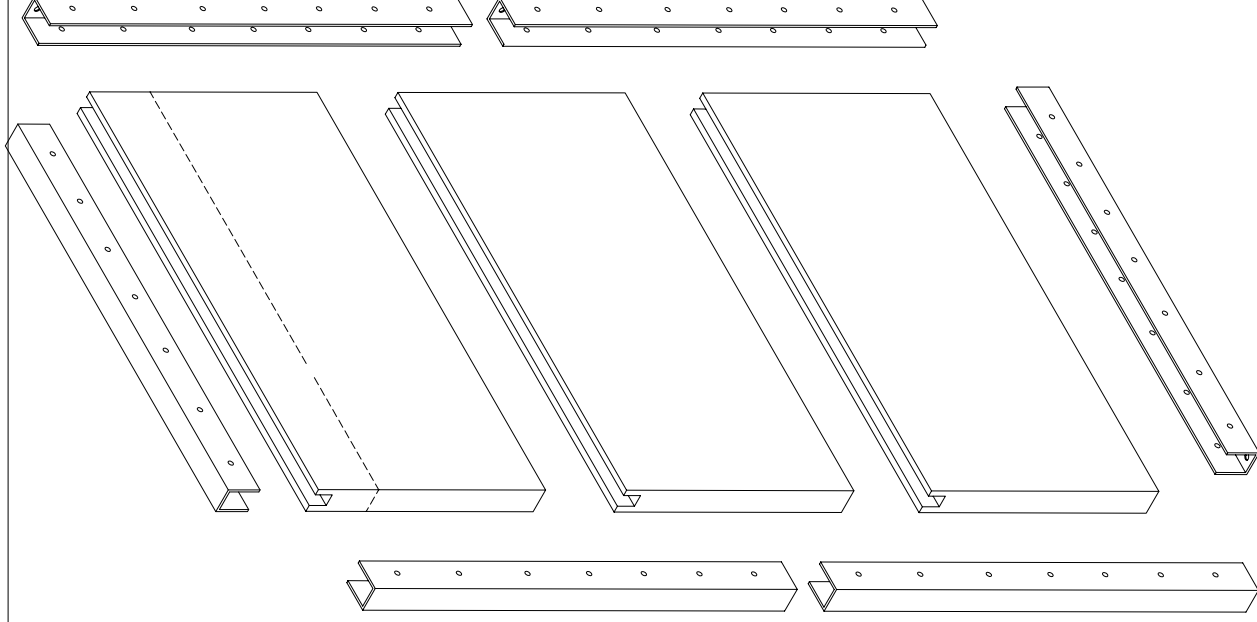
Necessary tools/equipment to mount panels:

- Elektric reciprocating saw for shortening the panels
- Rivet clamp for 4,8mm rivets
- Electric drill/ hammer drill
- Spirit level and tape measurer
- Crescent wrench
- Concrete anchors or similar (depending on mounting surface)

**Procedure:**

- If there's a base under the panels, these are mounted first.
- Bottom rail and wall rail is mounted next (on top of base, if any).
- Panels are placed horizontally, on top of each other.
- U profiles are mounted in front and top.
- C-profile for curtains are attached to the front U-profile.
- NB: Corner rails and doblerrails (u-profile), is primarily used for back wall and outer walls

## HORIZONTAL panels



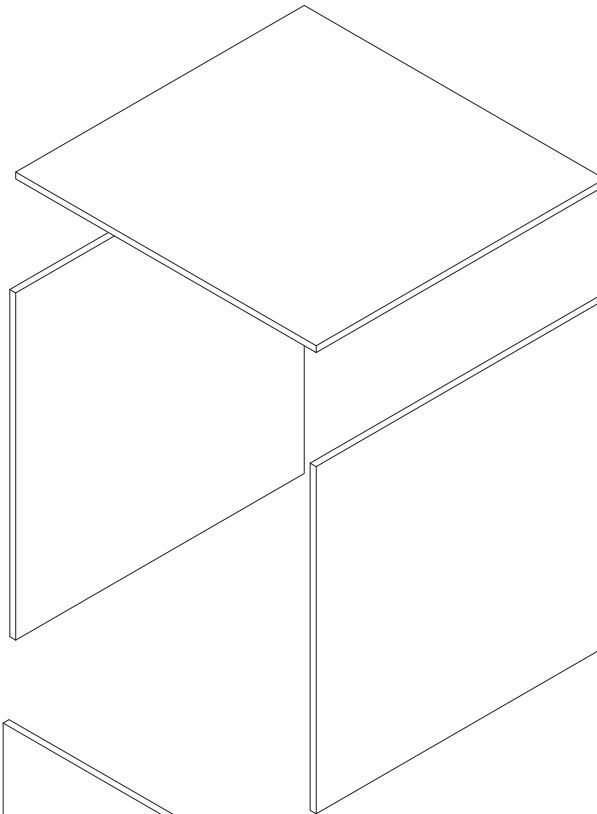
Panels are mounted with rivets, bolts or screws, depending on the surface you want.

NB: These are not included

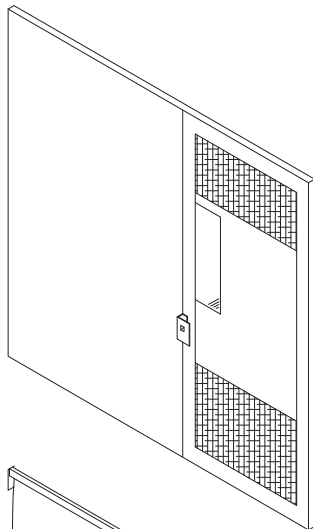
Typically, the inner walls in the cabin is made with perforated steel plate, and the outer walls is with plain plate.

## Examples

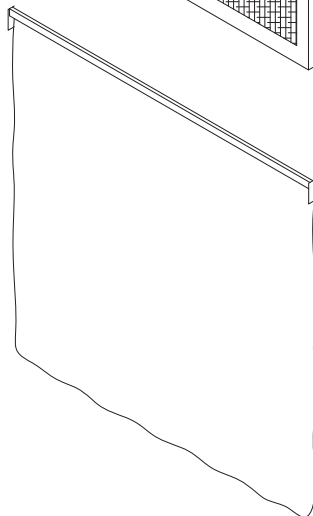
Geovent welding cabins/  
soundcabins is supplied as  
package kit for self assembly,  
and is always custom made for  
the specific project



Supplied with or  
without rooftop



Can be supplied  
with different types  
of front panels, ex.  
doors or french  
doors



Can also be  
supplied with  
different colors of  
welding curtains or  
vertical blinds