



SOUND INSULATING ENCLOSURES



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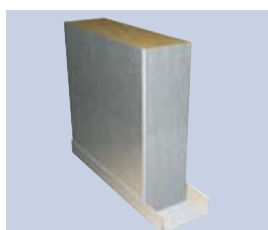
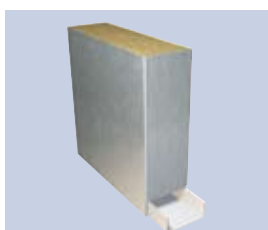
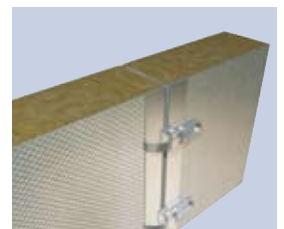
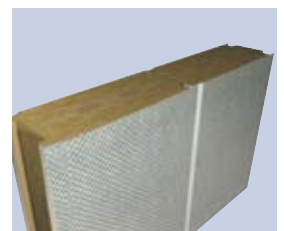
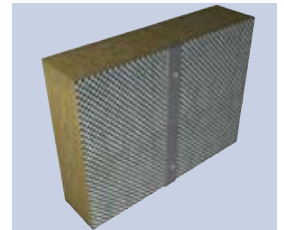
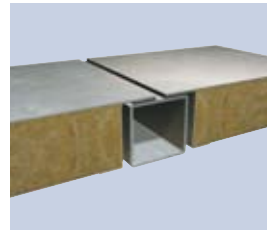
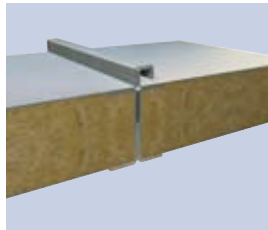
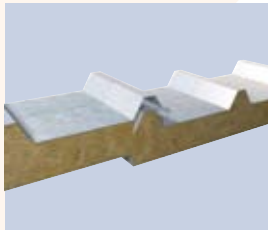
Sound insulating enclosures, walls, containers and cabins reduce the transfer of sound between the source of the noise and the recipient and provide a pleasant environment and a better work climate. This effect is based on the principle of isolation and absorption.

The selection of materials entirely depends on your project specifications, the intended sound reduction and other environmental factors. In addition to the design of an optimal panel, the correct choice of accessories, such as doors, windows, ventilation, apertures, etc., are of the utmost importance.

The carefully selected composition of materials will determine the ultimate result.

Custom-made within the standard concept

We deliver modular standard systems, type ACP, which are manufactured custom-made, based on your requirements. Sound reduction, user-friendliness, accessibility, ergonomics, safety and design are central aspects. The systems are delivered for interior and exterior applications, are self-supporting or provided with a frame construction and can also be manufactured with fire-resistant properties.



Properties

- Acoustic properties adapted to your specifications, reductions up to 50 dB(A)
- Flexible design with regard to style, dimensions, doors, windows and ventilation openings
- Modular systems for simple and rapid installation and disassembly
- Weather resistant types for exterior applications
- Fire-resistant designs (up to 90 minutes)
- Types of material, for instance galvanized iron, aluminium and stainless steel, with or without paint coating or powder coating
- Turnkey design including steel construction, vibration isolation, ventilation, air filtering, air conditioning, fire resistance, lighting, etc.
- Optimal price to quality ratio

Sound reduction

The intended sound reduction of enclosures, walls and cabins depends on a large number of factors such as composition of the sound spectrum (low, middle, high frequency), sound transfer of the construction, vibrations, dimensions of the openings, ratio between volume of the sound source versus volume of the enclosure/cabin, height and length of the wall and composition of the parts. As a rule of thumb, sound reductions up to 50dB(A) can be achieved. We use calculation programmes and laboratory measurements as well as field measurements in order to guarantee you the optimum result.

Isolation values and absorption coefficients

		63	125	250	500	1000	2000	4000	8000	Hz
ACP 50	R	18	21	24	28	39	42	44	46	dB
ACP 80	R	19	21	27	34	41	43	45	46	dB
ACP 80S	R	22	24	29	37	48	50	50	50	dB
Cyclefoam 125	R	16	20	27	26	42	48	50	50	dB
ACP 50	α_s	0,15	0,20	0,45	0,86	0,90	0,90	0,80	0,80	S/m ²
ACP 80/80S	α_s	0,20	0,40	0,80	0,90	1,05	1,00	0,95	0,95	S/m ²
Cyclefoam 125	α_s	0,10	0,30	0,74	0,96	0,91	0,78	0,63	0,61	S/m ²

Installation

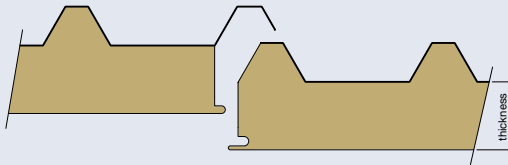
We are both ISO 9001:2000 and VCA certified ('Safety Checklist Contractors') and can perform national and international installations for you.

Applications

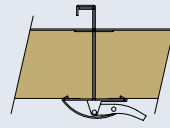
- Turbines, gear boxes
- Motors, generators, transformers
- Pump sets, compressors, blowers
- Ventilators
- Presses
- Shredders
- Production lines
- Control rooms, operating cabins
- Condenser units, cooling towers

Details

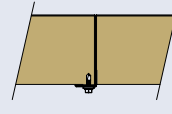
Roof panels



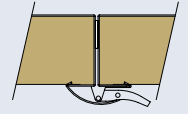
tongue and groove



upright eccentric latch

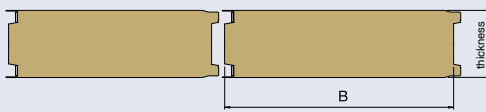


screwed connections

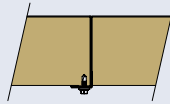


level eccentric latch

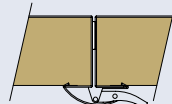
Wall panels



tongue and groove

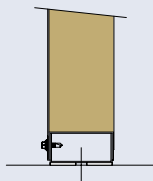


screwed connection

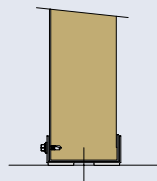


level eccentric latch

Floor connections

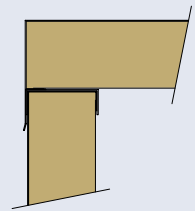
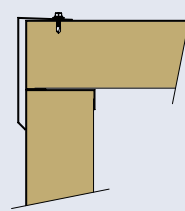


exterior

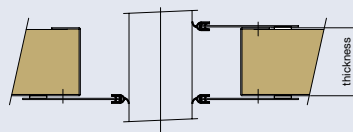


interior

Roof connections

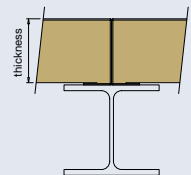


Apertures



single-/double sealing

Frame constructions





NOISE CONTROL

Part of the Schilt beheer groep

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