

Energy saving standards of your choice

With the WBS wall construction system and in collaboration with utilities management, industrial construction can be designed in any desired energy saving standard - up to passive house standard.. Due to the efficient thermal insulation of WBS walls, utilities management can become significantly smaller.

For well-being at work

Due to the high insulation performance a comfortable working climate can be guaranteed in summer and winter. Staff feel good and are more productive. To adhere to the German Workplaces Ordinance, no extra air conditioning is necessary. In the industrial and commercial construction industry the balanced room temperature ensure the quality of the production.



A safe and economical investment.

In connection with wooden frame construction, the high standard of quality of the WBS wall construction system reduces service costs. No maintenance costs occur. The insulation values remain constant as the insulation of the WBS walls is inherently stable over a long period of time and, contrary to other insulation materials, does not rot.

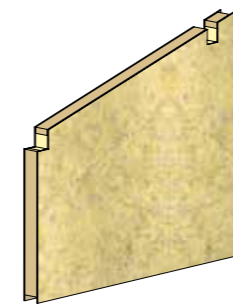
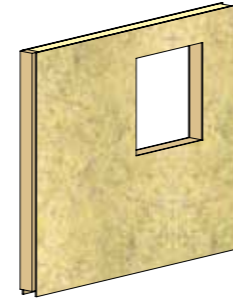


LITEC WBS Wall construction system

Insulation core: PUR/PIR rigid foam in accordance with DIN EN 13165, class E, density approx. 33 kg/m³, clad on both sides with mineral fleece

Face sheets: inside, plywood boards, 15 mm thick
outside, plywood boards, 15 mm thick

Please note: according to construction kit plan, individual factory-made parts including wooden construction elements



Panel thickness mm	Thickness mm PUR/PIR	Thickness mm plywood boards	TCL PUR/PIR [W/(mK)]
130	100	2x15	0,026
150	120	2x15	0,025
170	140	2x15	0,025
190	160	2x15	0,025

LITEC WBS H with wooden fibre baseboard, 60 mm thick, on the outside

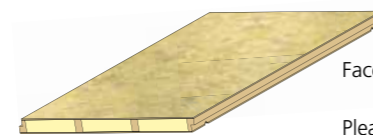
Panel thickness mm	Thickness mm PUR/PIR	Thickness mm plywood boards	TCL PUR/PIR [W/(mK)]
175	100	15	0,026
195	120	15	0,025
215	140	15	0,025
235	160	15	0,025

LITEC DBS roof construction system

Insulation core: PUR/PIR rigid foam in accordance with DIN EN 13165, class E, Density approx. 33 kg/m³, clad on both sides with mineral fleece

Face sheets: plywood boards inside and outside
15 mm thick

Please note: according to construction kit plan, individual factory-made parts including wooden construction elements



Panel thickness mm	Thickness mm PUR/PIR	Thickness mm plywood boards	TCL PUR/PIR [W/(mK)]
150	120	2x15	0,025
170	140	2x15	0,025
190	160	2x15	0,025
210	180	2x15	0,025
230	200	2x15	0,025

Further designs and face sheets available on request

Wall construction system
WBS



The WBS wall system for pathbreaking industrial, commercial and property construction

Planning safety and short construction times thanks to a high level of prefabrication · Energy saving standards of your choice · Comfortable working and production conditions thanks to a balanced room climate all year round



Customised, prefabricated wall elements

With an efficient thermal insulation core from PUR/PIR rigid foam

Space gained thanks to lean wall construction

Flexible building and hall design

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Individual planning and building for the future - with the WBS wall construction system

The walls of the WBS wall construction system are customised and arrive at the construction site prefabricated and with all openings for doors and windows. Any architecture is possible - from clear simplicity through to design featuring angles and recessed facades.

At the heart of the WBS walls is the insulation core made of PUR/PIR rigid foam. There is hardly any other insulation material as good as this high performance product. Additionally PUR/PIR is moisture and mould resistant and can be 100% recycled.

Gain space and save costs with lean walls

Due to the extremely high insulation effect of PUR/PIR rigid foam, a lean wall construction is achieved. A significantly bigger room is created in the same space than with conventional techniques. This saves money. For example with a basic area of 9 x 9.75 metres you gain a whole 13 square metres in usable space.

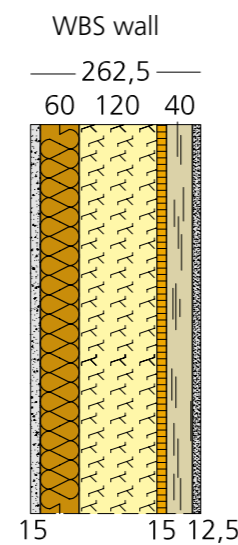
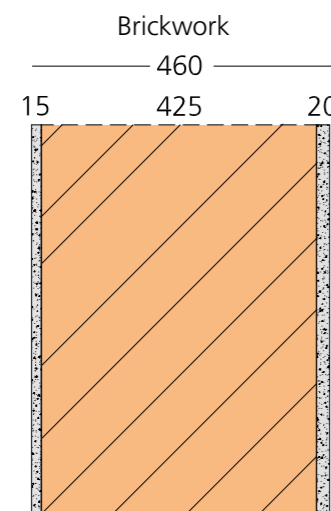
Wall construction for plaster facades

- Room-side gypsum boards - for individual design with plaster and wallpaper
- Lathing (30 mm) with an air layer for supply lines
- Plywood boards 15 mm thick
- Proven wooden frame construction
- High performance insulation material PUR/PIR rigid foam (TCL 026 / TCL 025)
- Sound insulation board with excellent sound protection properties
- Textured plastering, 3 mm thick, weather proof and wind proof



Wall construction for facade cladding

- Room-side gypsum boards - for individual design with plaster and wallpaper
- Lathing (30 mm) with an air layer for supply lines
- Plywood board 15 mm
- High performance insulation material PUR/PIR rigid foam (TCL 026 / TCL 025)
- Proven wooden frame construction
- Plywood boards 10 mm thick
- High performance insulation material PUR/PIR rigid foam TCL 026
- Façade membrane
- Lathing
- Façade cladding e.g. weather boarding, flagstones, metal, fibre cement, laminate and much more



Wall thickness comparison

To achieve an U-value of 0.19 W/(m²K), the brickwork must be 46 cm thick - a WBS wall, in comparison, only needs to be 26.3 cm thick.

Short construction time and quick installation process thanks to a high level of prefabrication

Even large buildings can be completed in just a few working days. The customised, prefabricated elements of the WBS wall construction system and the DBS roof construction system arrive directly at the construction site and can be assembled immediately.



Planning freedom inside and out

Through the planning freedom the building can be adjusted to the manufacturing processes and the production demands - flexible room and hall planning included

Install, adapt, extend

The WBS wall construction system goes well with every other building material and is ideal for modernising and extending existing commercial buildings and other properties.

Customised facade design

The facade can be designed however you want - for example with the company's corporate design: with plaster, metal, flagstones or wooden boarding. For this commercial construction laminate boards were chosen for the facade.



DBS roof construction system - the best protection against summer heat and winter cold

The DBS roof construction system is a complete, well thought out, energy saving concept. These elements also arrive on site pre-customised and are quickly assembled. The roofing is carried out according to your request and architecture with roofing tiles, metal boards, green roof...

