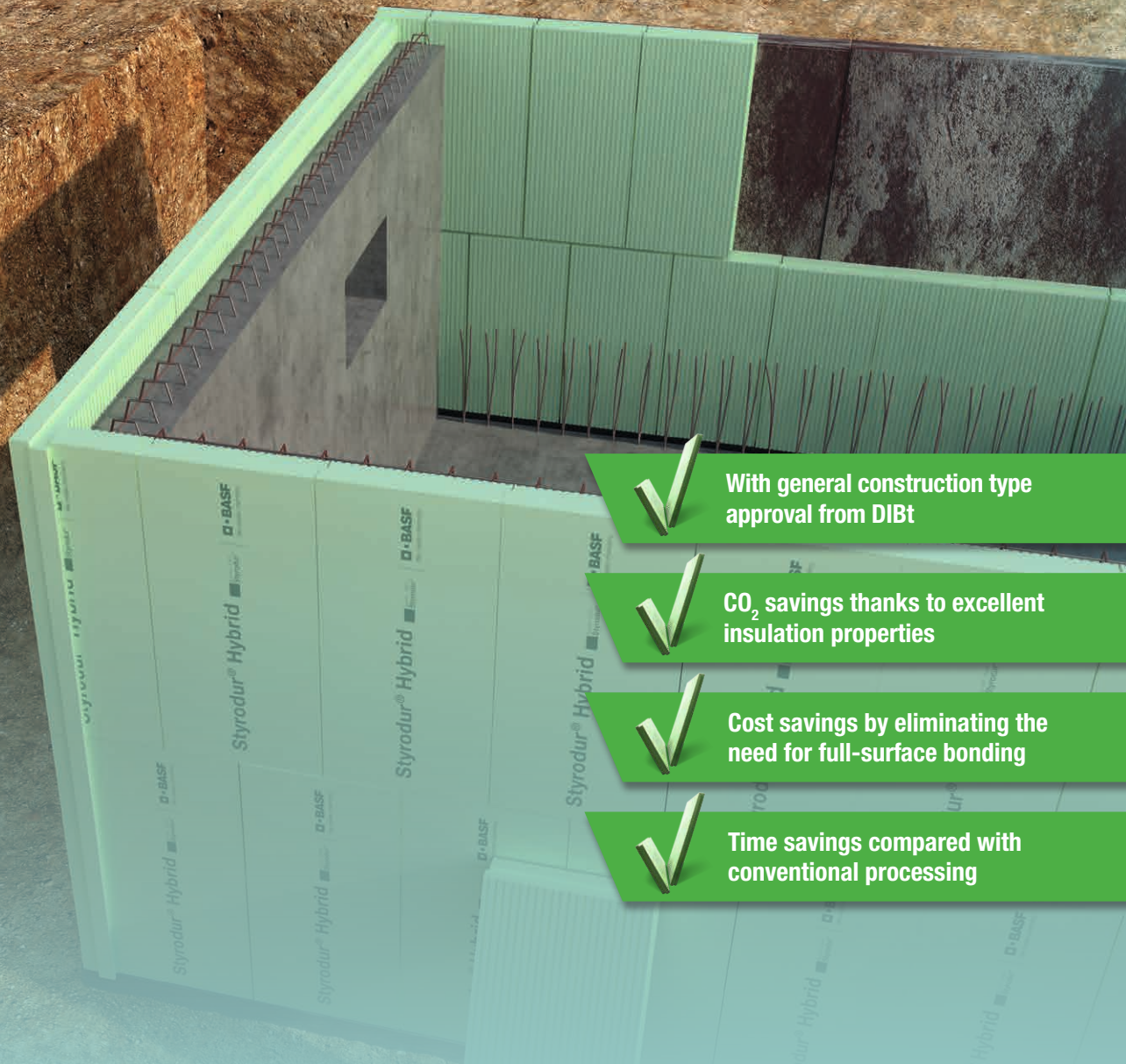


Styrodur® Hybrid

The thermal insulation board with longitudinal grooves on one side and shiplap for simple and clean processing



With general construction type approval from DIBt



CO₂ savings thanks to excellent insulation properties



Cost savings by eliminating the need for full-surface bonding



Time savings compared with conventional processing

Styrodur® Hybrid is the first XPS board with general construction type approval as a perimeter insulation system for concrete pouring in combination with waterproof concrete exterior basement walls. Styrodur® Hybrid is an advanced version of the green insulation material made of extruded polystyrene foam.



Basement with Styrodur® Hybrid insulation boards
 40 m + 10 m × 2.5 m basement height = 125 m² wall area
 approx. 35 man-hours for installation = approx. 3.5 m² per man-hour



Basement with conventional XPS insulation boards
 30 m + 10 m × 2.5 m basement height = 100 m² wall area
 approx. 33 man-hours for installation = approx. 3 m² per man-hour

✓ Conclusion:

The use of Styrodur® Hybrid allows time savings of **approx. 15%** and **adhesive savings of more than 90%** compared with the use of conventional XPS insulation boards!*

Tested and approved by the German Institute for Building Technology (DIBt)



*Calculation is based on a sample building site. The time savings obtained may differ for other building sites. Styrodur® is a registered trademark of BASF SE.

Properties	Unit	Designation code according to DIN EN 13164300	Hybrid SL	Hybrid S
Edge profile				
Surface			smooth, grooved	smooth, grooved
Dimensions	mm		2,500 x 615	1,265 x 615
Thickness	mm		120	100, 120, 140
Compressive strength at 10% deformation ²⁾	kPa	CS (10Y)	300	300
Adhesive strength on concrete	kPa	TR 200	-	-
Dimensional stability 70°C; 90% r.h.	%	DS (70,90)	≤5%	≤5%
Deformation behaviour: load 40 kPa; 70°C	%	DLT (2)5	≤5%	≤5%
Linear coefficient of thermal expansion	mm/(m·K)			
Longitudinal			0.06	0.06
Transverse			0.06	0.06
Fire behaviour	Euroclass		E	E
Water absorption with long-term immersion	% by vol.	WL (T)	0.7	0.7
Water absorption in diffusion test	% by vol.	WL (V)	3	3
Water vapour diffusion resistance factor		MU	150–50	150–50
Water absorption after freeze-thaw cycle	% by vol.	FTCD	1	1
Application temperature limit	°C		75	75