BEMO ROOF SYSTEMS – OPTIMUM BUILDING PHYSICS VALUES

BEMO ROOF SYSTEMS ARE DESIGNED INDIVIDUALLY TO MEET THE NEEDS OF THE BUILDING.

Depending on the type of insulation package, BEMO roof systems achieve thermal transmission values of ‹0.15 W/m²K.

In addition to the requirements of building physics, cost-effectiveness, sustainability and, of course, easy, fast and safe assembly of a roof structure, all play an important role. In the case of very high thermal insulation requirements, we recommend roof structures with the largest possible percentage of soft insulation without using thermally combined with thermal bridge-free BEMO halters.

BEMO-SOFT (PLUS): Insulation layers made of “soft” insulation with GFK halters mounted directly on the supporting surface. Highly cost-effective. Up to ‹0.173 W/m²K.

BEMO-COMBI: Combination of soft and rigid insulation for improved soundproofing and thermal performance, without compromising construction depth.

BEMO-COMPACT: Very compact structure with rigid insulation for up to 360 mm insulation thickness and very good soundproofing values.

You will find an overview of the building physics values of the individual roof structures in the table.

Roof structures

		TC 032		TC 040	
	Insulation thickness mm	OHTC not distorted [W / mK]	OHTC considering thermal bridges [W / mK]	OHTC not distorted [W / mK]	OHTC considering thermal bridges [W / mK]
245 / 80 GFK halter directly on the load-bearing layer	180	0.172	0.173	0.213	0.214
140 / 60 aluminium halter with TK5 on 100 mm cap profile	180	0.172	0.360	0.213	0.375
245 / 80 GFK halter with cap profile 80 mm	260	0.120	0.130	0.149	0.150
220 /60 aluminium halter with TK5 on 100 cap profile	260	0.120	0.273	0.149	–
160 / 60 aluminium halter with TK5 on 100 / 100 wood	200	0.171	0.323	0.202	0.353

Indicativ values without considering other components of the build up.