

BEMO-SOFT

HEAT PROTECTION

relative halter height in mm:	80	100	120	140	160	180	200	220	240
Thick insulation layer in mm:	20	40	60	80	100	120	140	160	180
Total thickness roof construction in mm:	115	135	155	175	195	215	235	255	275
U-value without considering punctiform thermal bridges:	1.209	0.689	0.481	0.370	0.370	0.253	0.218	0.192	0.172

U-value considering punctiform thermal bridges

Aluminium Halter height:	80+TK5	100+TK5	120+TK5	140+TK5	160+TK5	180+TK5	200+TK5	220+TK5	
U-value:	1.386	0.860	0.646	0.529	0.453	0.399	0.358	0.326	
GFK Halter height:	85	105	125	145	165	185	205	225	245
U-value:	1.249	0.692	0.484	0.373	0.303	0.255	0.220	0.194	0.174

SOUND PROTECTION

Weight per m ² in kg:	12.45	12.85	13.25	13.65	14.05	14.45	14.85	15.25	15.65
predictable sound reduction index R in dB:	33.88	34.16	34.42	34.68	34.93	35.18	35.41	35.64	35.87

Measures to improve sound insulation: Use of insulating materials with 70kg/m³

Weight per m ² in kg:	16.43	17.83	19.23	20.63	22.03	23.43	24.83	26.23	27.63
predictable sound reduction index R in dB:	36.29	37.00	37.66	38.27	38.84	39.37	39.88	40.36	40.81

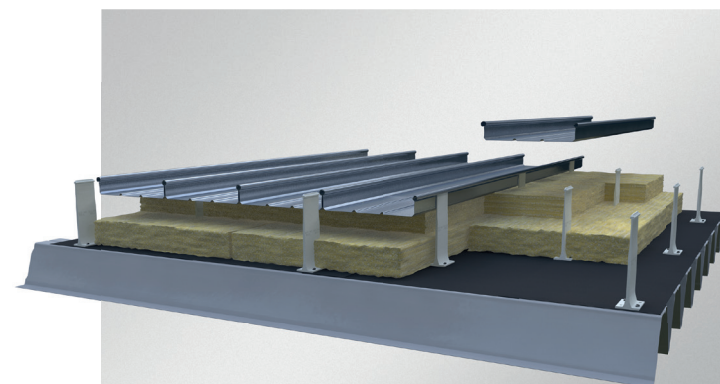
Installation of a layer of gipsum board with 8.5 kg/m²:

Weight per m ² in kg:	20.95	21.35	21.75	22.15	22.55	22.95	23.35	23.75	24.15
predictable sound reduction index R in dB:	38.40	38.57	38.73	38.89	39.04	39.20	39.35	39.49	39.64

Installation of a soundproofing panel with 17.5kg/m²

Weight per m ² in kg:	29.95	30.35	30.75	31.15	31.55	31.95	32.35	32.75	33.15
predictable sound reduction index R in dB:	41.51	41.62	41.74	41.85	41.96	42.07	42.18	42.28	42.39

The values mentioned are reference values.



- ❖ BEMO standing seam profile 65-400, 1.0 mm aluminium
- ❖ Aluminium-Halter incl. 5 mm Thermal Spacer
- ❖ GFK Halter 1.5 pcs/m²
- ❖ Mineral wool insulation 035, 20 kg/m³
- ❖ Vapour barrier
- ❖ Decking 0.75 mm steel

Main uses

- ❖ Structures of steel, timber or concrete
- ❖ Buildings with high thermal insulation and soundproofing requirements

Benefits

- ❖ Low dead weight
- ❖ Heat bridges caused by the system can be avoided
- ❖ Fast and easy construction