



# BEMO-SOFT PLUS

## HEAT PROTECTION

relative halter height in mm:	80	100	120	140	160	180	200	220
Thick insulation layer in mm:	120	140	160	180	200	220	240	260
Total thickness roof construction in mm:	215	235	255	275	295	315	335	355
U-value without considering punctiform thermal bridges:	0.253	0.218	0.192	0.172	0.155	0.141	0.130	0.120

### 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:	0.467	0.423	0.388	0.360	0.334	0.311	0.292	0.273
GFK Halter height:	85	105	125	145	165	185	205	225
U-value:	0.291	0.253	0.223	0.199	0.178	0.161	0.145	0.131

## SOUND PROTECTION

Weight per m <sup>2</sup> in kg:	17.43	17.83	18.23	18.63	19.03	19.43	19.83	20.23
predictable sound reduction index R in dB:	36.81	37.00	37.20	37.38	37.57	37.75	37.93	38.10

### Measures to improve sound insulation: Use of insulating materials with 70kg/m<sup>3</sup>

Weight per m <sup>2</sup> in kg:	23.43	24.83	26.23	27.63	29.03	30.43	31.83	33.23
predictable sound reduction index R in dB:	39.37	39.88	40.36	40.81	41.24	41.65	42.04	42.41

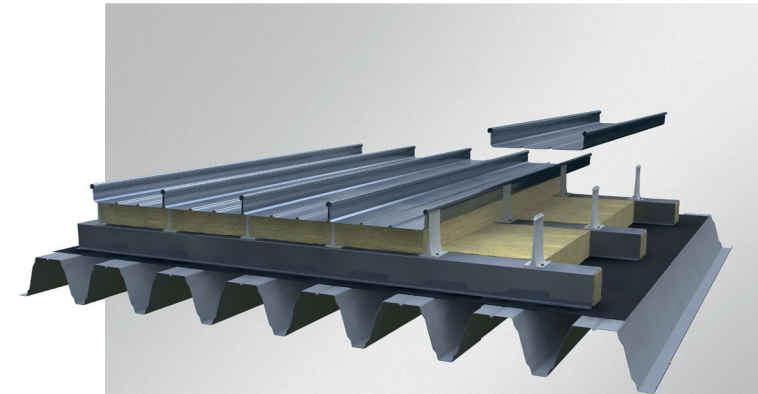
### Installation of a layer of gipsum board with 8.5 kg/m<sup>2</sup>:

Weight per m <sup>2</sup> in kg:	25.93	26.33	26.73	27.13	27.53	27.93	28.33	28.73
predictable sound reduction index R in dB:	40.26	40.39	40.52	40.65	40.78	40.90	41.02	41.15

### Installation of a soundproofing panel with 17.5kg/m<sup>2</sup>

Weight per m <sup>2</sup> in kg:	34.93	35.33	35.73	36.13	36.53	36.93	37.33	37.73
predictable sound reduction index R in dB:	42.84	42.94	43.04	43.14	43.23	43.33	43.42	43.51

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/m<sup>2</sup>
- ❖ Top hat 100 mm, centres 1.5 m
- ❖ Mineral wool insulation 032, 20 kg/m<sup>3</sup>
- ❖ Vapour barrier
- ❖ Decking 0.75 mm steel

### Main uses

- ❖ Purlin construction
- ❖ Structures of steel, timber or concrete

### Benefits

- ❖ Low dead weight
- ❖ Heat bridges caused by the system can be avoided
- ❖ Very low u-values
- ❖ Good summer heat protection