

BEMO-SOFT PLUS OVER A CONCRETE SUBSTRUCTURE

HEAT PROTECTION

relative halter height in mm:	80	100	120	140	160	180	200	220	240	260
Thick insulation layer in mm:	120	140	160	180	200	220	240	260	280	300
Total thickness roof construction in mm:	415	435	455	475	495	515	535	555	575	595
U-value without considering punctiform thermal bridges:	0.268	0.232	0.205	0.184	0.166	0.152	0.140	0.129	0.120	0.113

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	220+TK15	260 fictive
U-value:	0.472	0.427	0.391	0.362	0.335	0.312	0.292	0.273	0.255	0.240
GFK Halter height:	85	105	125	145	165	185	205	225	245	245+DK20
U-value:	0.293	0.255	0.225	0.202	0.181	0.165	0.150	0.136	0.126	0.118

SOUND PROTECTION

Weight per m ² in kg:	490.13	490.53	490.53	491.33	491.73	492.13	492.53	492.93	493.33	493.73
predictable sound reduction index R in dB:	65.79	65.79	65.79	65.81	65.81	65.82	65.83	65.84	65.84	65.85

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

Weight per m ² in kg:	496.13	497.53	498.93	500.33	501.73	503.13	504.53	505.93	507.33	508.73
predictable sound reduction index R in dB:	65.89	65.92	65.94	65.96	65.99	66.01	66.04	66.06	66.09	66.11

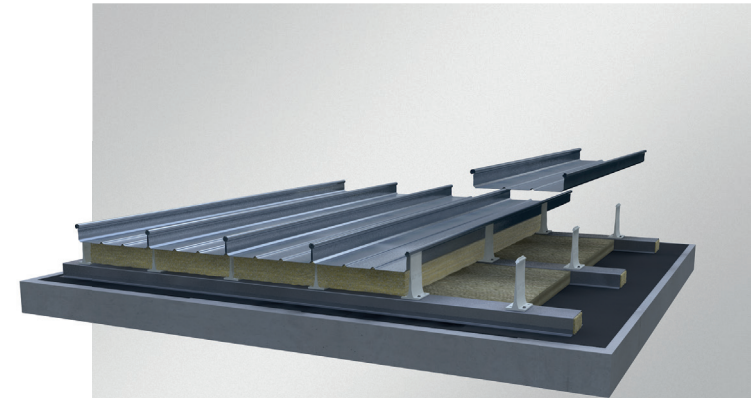
Installation of a layer of gypsum board with 8.5 kg/m²:

Weight per m ² in kg:	498.63	499.03	499.03	499.83	500.23	500.63	501.03	501.43	501.83	502.23
predictable sound reduction index R in dB:	65.93	65.94	65.94	65.96	65.96	65.97	65.98	65.98	65.99	66.00

Installation of a soundproofing panel with 17.5kg/m²

Weight per m ² in kg:	507.63	508.03	508.03	508.83	509.23	509.63	510.03	510.43	510.83	511.23
predictable sound reduction index R in dB:	66.09	66.10	66.10	66.11	66.12	66.12	66.13	66.14	66.14	66.15

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
- ❖ Top hat 100 mm, centres 1.5 m
- ❖ Mineral wool insulation 035, 20 kg/m³
- ❖ Vapour barrier
- ❖ 20 cm concrete deck

Main uses

- ❖ All kinds of concrete deck
- ❖ Buildings with high soundproofing demands

Benefits

- ❖ Reduction of thermal bridges
- ❖ High sound insulation
- ❖ Low u-values
- ❖ Very good summer heat protection