



BEMO-COMBI

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:	215	235	255	275	295	315	335	355	375	395
U-value without considering punctiform thermal bridges:	0.290	0.251	0.221	0.197	0.178	0.163	0.150	0.138	0.129	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	220+TK15	260 fictive
U-value:	0.488	0.440	0.401	0.368	0.341	0.316	0.295	0.276	0.258	0.242
GFK Halter height:	85	105	125	145	165	185	205	225	245	245+DK20
U-value:	0.306	0.266	0.234	0.209	0.188	0.172	0.157	0.143	0.133	0.123

SOUND PROTECTION

Weight per m ² in kg:	22.45	22.85	23.25	23.65	24.05	24.45	24.85	25.25	25.65	26.05
predictable sound reduction index R in dB:	39.00	39.16	39.31	39.46	39.60	39.74	39.89	40.02	40.16	40.30

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

Weight per m ² in kg:	24.43	27.83	31.23	34.63	38.03	41.43	44.83	48.23	51.63	55.03
predictable sound reduction index R in dB:	39.74	40.87	41.87	42.77	43.58	44.33	45.01	45.65	46.24	46.79

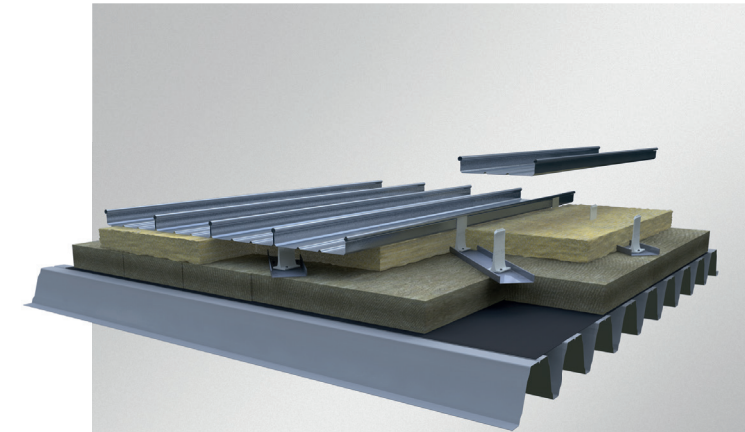
Installation of a layer of gipsum board with 8.5 kg/m²:

Weight per m ² in kg:	30.95	31.35	31.75	32.15	32.55	32.95	33.35	33.75	34.15	34.55
predictable sound reduction index R in dB:	41.79	41.90	42.01	42.12	42.23	42.34	42.44	42.54	42.65	42.75

Installation of a soundproofing panel with 17.5kg/m²

Weight per m ² in kg:	39.95	40.35	40.75	41.15	41.55	41.95	42.35	42.75	43.15	43.55
predictable sound reduction index R in dB:	44.01	44.10	44.18	44.27	44.35	44.43	44.52	44.60	44.68	44.76

The values mentioned are reference values.



- ❖ BEMO standing seam profile 65-400, 1.0 mm aluminium
- ❖ Aluminium-Halter incl. 5 mm TK Thermal Spacer
- ❖ GFK Halter 1.5 pcs/m²
- ❖ 1st layer of stone wool insulation 037, 100 kg/m³ 10 cm
- ❖ 2nd layer Mineral wool insulation 035, 20 kg/m³
- ❖ Vapour barrier
- ❖ Decking 0.75 mm steel

Main uses

- ❖ Structures of steel, timber or concrete
- ❖ Buildings with increased requirements for heat and sound protection

Benefits

- ❖ Reduction of thermal bridge
- ❖ High sound insulation
- ❖ Good summer heat protection