

## Alu-Mat

### Indoor heating mats for installation without embedding - 80 or 140 W/m<sup>2</sup>

Environmentally adapted heating mat designed specifically for wooden, parquet and laminate flooring. AluMat is only 2 mm high and can be laid on existing stable surfaces and directly under the new floor. However, we recommend that you install a 3 mm reflector plate or the like to absorb any unevennesses of the subfloor. The reflector plate also provides additional insulation, dampens the sound of footsteps and protects the heating mat from pressure from the floor. The fiberglass-reinforced aluminum foil distributes the heat evenly across the entire floor and serves as grounding, as well.

The heating mat is fitted with a heating cable with a diameter of just 1.2 mm, and the complete installation therefore only takes up approx. 10 mm of space when AluMat is equipped with a 3 mm reflector plate.

AluMat is ideal for renovation projects requiring low construction height and is by far the easiest way to install floor heating under the “soft” types of flooring. There is a choice of two power outputs depending on the overall level of insulation and the current heating requirement in the room.

We recommend that you choose a thermostat with a built-in temperature limiter to control your AluMat floor-heating mat, and floor manufacturers recommend that you set the thermostat at max. 27° C. By following these recommendations, you eliminate any risk of damaging your floor by too rapid heating and high temperature.



## Technical Data



Voltage	230 V ~ 50 Hz
Cable Diameter	Ø1,2 mm
Insulation inner Sheath	Teflon
Cold cable	3 m
Authorisation	CE, SEMKO
Cable Buildup	2 conductors + ground shield
Ground shield	Alu-folie
Outer Sheath	Environmentally PVC
Max. temp. on Cable	90 °C
Building Height	min. 5 mm
Warranty	10 years
Standard	EN60335-2-96
Resistance Tolerance	-5 %/+10 %

## Alu-Mat 80 W

Item no.	Type	Description	Power	Current	Resistance
40840010	PVAM-80W-010	Alu-Mat 80 W/m <sup>2</sup> - 1.0 m <sup>2</sup> (0.5 x 2.0 m)	80 W	0.3 A	661 Ω
40840015	PVAM-80W-015	Alu-Mat 80 W/m <sup>2</sup> - 1.5 m <sup>2</sup> (0.5 x 3.0 m)	120 W	0.5 A	441 Ω
40840020	PVAM-80W-020	Alu-Mat 80 W/m <sup>2</sup> - 2.0 m <sup>2</sup> (0.5 x 4.0 m)	160 W	0.7 A	331 Ω
40840025	PVAM-80W-025	Alu-Mat 80 W/m <sup>2</sup> - 2.5 m <sup>2</sup> (0.5 x 5.0 m)	200 W	0.9 A	265 Ω
40840030	PVAM-80W-030	Alu-Mat 80 W/m <sup>2</sup> - 3.0 m <sup>2</sup> (0.5 x 6.0 m)	240 W	1.0 A	220 Ω
40840035	PVAM-80W-035	Alu-Mat 80 W/m <sup>2</sup> - 3.5 m <sup>2</sup> (0.5 x 7.0 m)	280 W	1.2 A	189 Ω
40840040	PVAM-80W-040	Alu-Mat 80 W/m <sup>2</sup> - 4.0 m <sup>2</sup> (0.5 x 8.0 m)	320 W	1.4 A	165 Ω
40840045	PVAM-80W-045	Alu-Mat 80 W/m <sup>2</sup> - 4.5 m <sup>2</sup> (0.5 x 9.0 m)	360 W	1.6 A	147 Ω
40840050	PVAM-80W-050	Alu-Mat 80 W/m <sup>2</sup> - 5.0 m <sup>2</sup> (0.5 x 10.0 m)	400 W	1.7 A	132 Ω
40840060	PVAM-80W-060	Alu-Mat 80 W/m <sup>2</sup> - 6.0 m <sup>2</sup> (0.5 x 12.0 m)	480 W	2.1 A	110 Ω
40840070	PVAM-80W-070	Alu-Mat 80 W/m <sup>2</sup> - 7.0 m <sup>2</sup> (0.5 x 14.0 m)	560 W	2.4 A	94 Ω
40840080	PVAM-80W-080	Alu-Mat 80 W/m <sup>2</sup> - 8.0 m <sup>2</sup> (0.5 x 16.0 m)	640 W	2.8 A	83 Ω
40840090	PVAM-80W-090	Alu-Mat 80 W/m <sup>2</sup> - 9.0 m <sup>2</sup> (0.5 x 18.0 m)	720 W	3.1 A	73 Ω
40840100	PVAM-80W-100	Alu-Mat 80 W/m <sup>2</sup> - 10.0 m <sup>2</sup> (0.5 x 20.0 m)	800 W	3.5 A	66 Ω
40840120	PVAM-80W-120	Alu-Mat 80 W/m <sup>2</sup> - 12.0 m <sup>2</sup> (0.5 x 24.0 m)	960 W	4.2 A	55 Ω
40840150	PVAM-80W-150	Alu-Mat 80 W/m <sup>2</sup> - 15.0 m <sup>2</sup> (0.5 x 30.0 m)	1200 W	5.2 A	44 Ω

## Alu-Mat 140 W

Item no.	Type	Description	Power	Current	Resistance
40850010	PVAM-140W-010	Alu-Mat 140 W/m <sup>2</sup> - 1,0 m <sup>2</sup> (0,5 x 2,0 m)	140 W	0,6 A	378 Ω
40850015	PVAM-140W-015	Alu-Mat 140 W/m <sup>2</sup> - 1,5 m <sup>2</sup> (0,5 x 3,0 m)	210 W	0,9 A	252 Ω
40850020	PVAM-140W-020	Alu-Mat 140 W/m <sup>2</sup> - 2,0 m <sup>2</sup> (0,5 x 4,0 m)	280 W	1,2 A	189 Ω
40850025	PVAM-140W-025	Alu-Mat 140 W/m <sup>2</sup> - 2,5 m <sup>2</sup> (0,5 x 5,0 m)	350 W	1,5 A	151 Ω
40850030	PVAM-140W-030	Alu-Mat 140 W/m <sup>2</sup> - 3,0 m <sup>2</sup> (0,5 x 6,0 m)	420 W	1,8 A	126 Ω
40850035	PVAM-140W-035	Alu-Mat 140 W/m <sup>2</sup> - 3,5 m <sup>2</sup> (0,5 x 7,0 m)	490 W	2,1 A	108 Ω
40850040	PVAM-140W-040	Alu-Mat 140 W/m <sup>2</sup> - 4,0 m <sup>2</sup> (0,5 x 8,0 m)	560 W	2,4 A	94 Ω
40850045	PVAM-140W-045	Alu-Mat 140 W/m <sup>2</sup> - 4,5 m <sup>2</sup> (0,5 x 9,0 m)	630 W	2,7 A	84 Ω
40850050	PVAM-140W-050	Alu-Mat 140 W/m <sup>2</sup> - 5,0 m <sup>2</sup> (0,5 x 10,0 m)	700 W	3,0 A	76 Ω
40850060	PVAM-140W-060	Alu-Mat 140 W/m <sup>2</sup> - 6,0 m <sup>2</sup> (0,5 x 12,0 m)	840 W	3,7 A	63 Ω
40850070	PVAM-140W-070	Alu-Mat 140 W/m <sup>2</sup> - 7,0 m <sup>2</sup> (0,5 x 14,0 m)	980 W	4,3 A	54 Ω
40850080	PVAM-140W-080	Alu-Mat 140 W/m <sup>2</sup> - 8,0 m <sup>2</sup> (0,5 x 16,0 m)	1120 W	4,9 A	47 Ω
40850090	PVAM-140W-090	Alu-Mat 140 W/m <sup>2</sup> - 9,0 m <sup>2</sup> (0,5 x 18,0 m)	1260 W	5,5 A	42 Ω
40850100	PVAM-140W-100	Alu-Mat 140 W/m <sup>2</sup> - 10,0 m <sup>2</sup> (0,5 x 20,0 m)	1400 W	6,1 A	38 Ω
40850120	PVAM-140W-120	Alu-Mat 140 W/m <sup>2</sup> - 12,0 m <sup>2</sup> (0,5 x 24,0 m)	1680 W	7,3 A	31 Ω
40850150	PVAM-140W-150	Alu-Mat 140 W/m <sup>2</sup> - 15,0 m <sup>2</sup> (0,5 x 30,0 m)	2099 W	9,1 A	25 Ω