



warmset[®]
LAMINATED HEATING TECHNOLOGY

CATALOGUE



warmset®

LAMINATED HEATING TECHNOLOGY

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warmset®

LAMINATED HEATING TECHNOLOGY

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TECHNICAL DATA SHEET **GOLD FIBERGLASS**

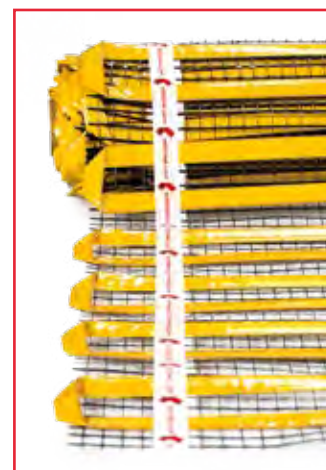


GOLD FIBERGLASS



Warmset's **Gold** technology is the flagship among the Warmset products for underfloor electric heating. It has a gold-colored **polyimide film coating**, a material with high heating properties and very resistant to chemical agents. These remarkable characteristics make it possible for Warmset to offer this product with an exclusive **lifetime guarantee**.

Thanks to the **fiberglass mesh** that the Warmset multilayer laminated earth plate is set on, this underfloor electric heating system is suitable to be embedded in **cement or self-leveling screed**, even outside homes. Since it is **not very thick** (3 mm) it can be installed directly in tile glue with **ceramic, natural stone or wood** floors glued on.



GUARANTEES AND CERTIFICATIONS



LIFETIME
WARRANTY



RIBBON SAFE
GUARANTEE



DIMENSIONS AND CHARACTERISTICS

GOLD FIBERGLASS

COVERED AREA (m ²)	DIMENSION (LINEAR METER)	65W/m ²		85W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)	MODEL	POWER(W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHG-0.5-65	32.5W 0.14A / 1627.7Ω	WHG-0.5-85	42.5W 0.18A / 1170Ω
1.0	0,5X2	WHG-1-65	65W 0.28A / 813.8Ω	WHG-1-85	85W 0.36A / 622Ω
1.5	0,5X3	WHG-1,5-6	97.5W 0.42A / 542.6Ω	WHG-1.5-85	127.5W 0.55A / 415Ω
2.0	0.5X4	WHG-2-65	130W 0.57A / 406.9Ω	WHG-2-85	170W 0.74A / 311Ω
2.5	0.5X5	WHG-2,5-65	162.5W 0.71A / 325.5Ω	WHG-2.5-85	213W 0.92A / 249Ω
3.0	0.5X6	WHG-3-65	195W 0.85A / 271.3Ω	WHG-3-85	255W 1.11A / 207Ω
3.5	0.5X7	WHG-3,5-65	227.5W 0.99A / 232.5Ω	WHG-3.5-85	298W 1.29A / 178Ω
4.0	0.5X8	WHG-4-65	260W 1.13A / 203.5Ω	WHG-4-85	340W 1.66A / 1170Ω
4.5	0.5X9	WHG-4,5-65	292.5W 1,278A / 180.9Ω	WHG-4.5-85	383W 0,18A / 1170Ω
5.0	0.5X10	WHG-5-65	325W 1.41A / 162.8Ω	WHG-5-85	425W 1.85A / 125Ω
6.0	0.5X12	WHG-6-65	390W 1.70A / 135.6Ω	WHG-6-85	510W 2.21A / 104Ω
7.0	0.5X14	WHG-7-65	455W 1.98A / 116.3Ω	WHG-7-85	595W 2.58A / 88.9Ω
8.0	0.5X16	WHG-8-65	520W 2.26A / 101.7Ω	WHG-8-85	680W 2.95A / 77.8Ω
9.0	0.5X18	WHG-9-65	585W 2.54A / 90.4Ω	WHG-9-85	765W 3.33A / 69.2Ω
10.0	0.5X20	WHG-10-65	650W 2.83A / 81.4Ω	WHG-10-85	850W 3.70A / 62.2Ω
12.0	0.5X24	WHG-12-65	780W 3.39A / 67.8Ω	WHG-12-85	1020W 4.43A / 51.8Ω
14.0	0.5X28	WHG-14-65	910W 3.96A / 58.1Ω	WHG-14-85	1190W 5.17A / 44.5Ω

DIMENSIONS AND CHARACTERISTICS

GOLD FIBERGLASS

COVERED AREA (m ²)	DIMENSION (LINEAR METER)	100W/m ²		120W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)	MODEL	POWER (W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHG-0.5-100	50W 0.21A / 1058Ω	WHG-0.5-120	60W 0.26A / 882Ω
1.0	0,5X2	WHG-1-100	100W 0.43A / 529Ω	WHG-1-120	120W 0.52A / 441Ω
1.5	0,5X3	WHG-1.5-100	150W 0.65A / 353Ω	WHG-1.5-120	180W 0.78A / 294Ω
2.0	0.5X4	WHG-2-100	200W 0.86A / 265Ω	WHG-2-120	240W 1.04A / 220Ω
2.5	0.5X5	WHG-2.5-100	250W 1.08A / 212Ω	WHG-2.5-120	300W 1.30A / 177Ω
3.0	0.5X6	WHG-3-100	300W 1.30A / 177Ω	WHG-3-120	360W 1.56A / 147Ω
3.5	0.5X7	WHG-3.5-100	350W 1.52A / 151Ω	WHG-3.5-120	420W 1.83A / 126Ω
4.0	0.5X8	WHG-4-100	400W 1.73A / 133Ω	WHG-4-120	480W 2.08A / 110Ω
4.5	0.5X9	WHG-4.5-100	450W 1.95A / 118Ω	WHG-4.5-120	540W 2.34A / 98.0Ω
5.0	0.5X10	WHG-5-100	500W 2.17A / 106Ω	WHG-5-120	600W 2.60A / 88.7Ω
6.0	0.5X12	WHG-6-100	600W 2.60A / 88.7Ω	WHG-6-120	720W 3.13A / 73.5Ω
7.0	0.5X14	WHG-7-100	700W 3.04A / 75.6Ω	WHG-7-120	840W 3.65A / 63.0Ω
8.0	0.5X16	WHG-8-100	800W 3.47A / 66.2Ω	WHG-8-120	960W 4.17A / 55.1Ω
9.0	0.5X18	WHG-9-100	900W 3.91A / 58.8Ω	WHG-9-120	1080W 4.69A / 53.8Ω
10.0	0.5X20	WHG-10-100	1000W 4.34A / 52.9Ω	WHG-10-120	1200W 5.00A / 48.0Ω
12.0	0.5X24	WHG-12-100	1200W 5.21A / 44.1Ω	WHG-12-120	1440W 6.26A / 36.7Ω
14.0	0.5X28	WHG-14-100	1400W 6.08A / 37.8Ω	WHG-14-120	1680W 7.3A / 31.4Ω

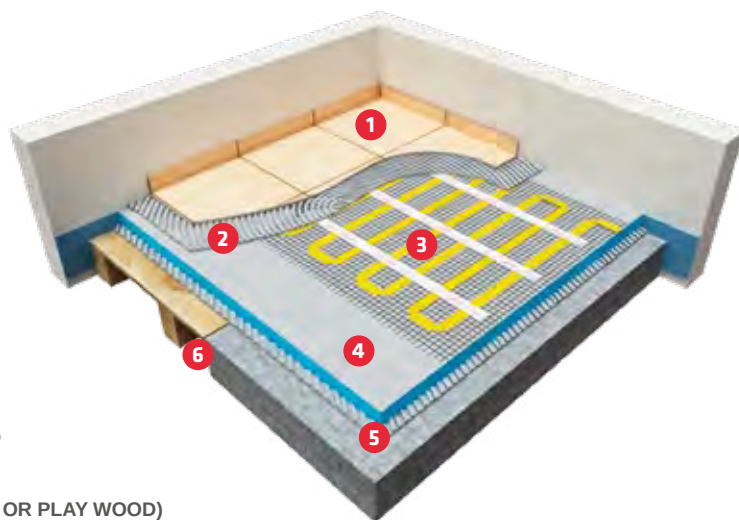
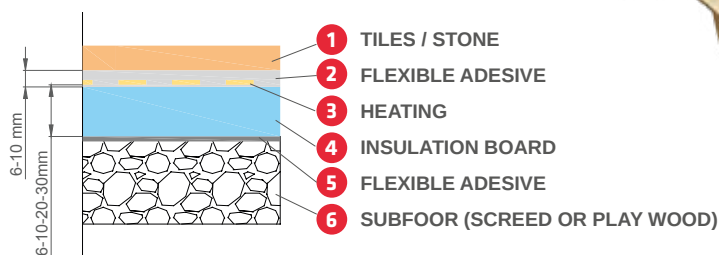
DIMENSIONS AND CHARACTERISTICS

GOLD FIBERGLASS

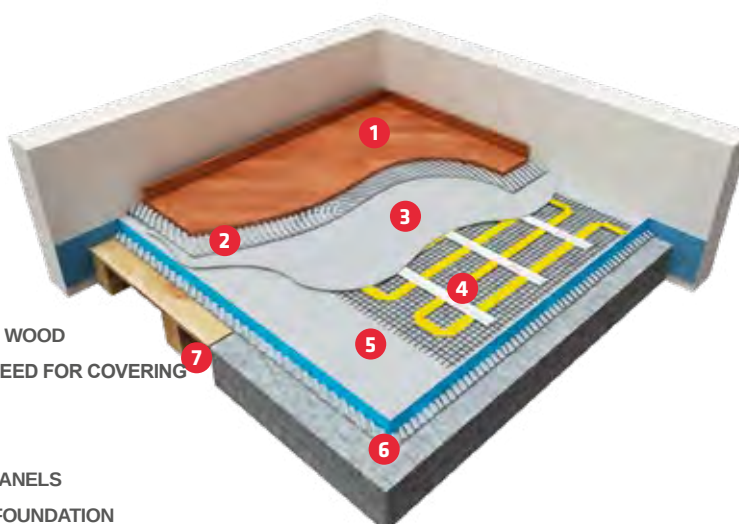
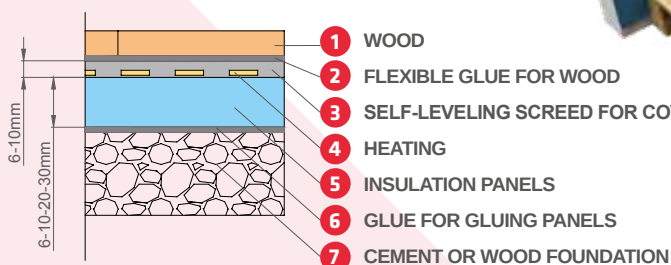
COVERED AREA (m ²)	DIMENSION (LINEAR METER)	150W/m ²		200W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)	MODEL	POWER (W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHG-0.5-150	75W 0.32A / 705Ω	WHG-0.5-200	100W 0.43A / 529Ω
1.0	0,5X2	WHG-1-150	150W 0.65A / 353Ω	WHG-1-200	200W 0.86A / 265Ω
1.5	0,5X3	WHG-1.5-150	225W 0.98A / 235Ω	WHG-1.5-200	300W 1.30A / 177Ω
2.0	0.5X4	WHG-2-150	300W 1.30A / 177Ω	WHG-2-200	400W 1.73A / 133Ω
2.5	0.5X5	WHG-2.5-150	375W 1.63A / 141Ω	WHG-2.5-200	500W 2.17A / 106Ω
3.0	0.5X6	WHG-3-150	450W 1.95A / 118Ω	WHG-3-200	600W 2.60A / 88.7Ω
3.5	0.5X7	WHG-3.5-150	525W 2.28A / 101Ω	WHG-3.5-200	700W 3.04A / 75.6Ω
4.0	0.5X8	WHG-4-150	600W 2.60A / 88.7Ω	WHG-4-200	800W 3.47A / 66.2Ω
4.5	0.5X9	WHG-4.5-150	675W 2.93A / 78.4Ω	WHG-4.5-200	900W 3.91A / 58.8Ω
5.0	0.5X10	WHG-5-150	750W 3.26A / 70.5Ω	WHG-5-200	1000W 4.34A / 52.9Ω
6.0	0.5X12	WHG-6-150	900W 3.91A / 58.8Ω	WHG-6-200	1200W 5.21A / 44.1Ω
7.0	0.5X14	WHG-7-150	1050W 4.56A / 50.4Ω	WHG-7-200	1400W 6.08A / 37.8Ω
8.0	0.5X16	WHG-8-150	1200W 5.21A / 44.1Ω	WHG-8-200	1600W 6.95A / 33.1Ω
9.0	0.5X18	WHG-9-150	1350W 5.87A / 39.2Ω	WHG-9-200	1800W 7.82A / 29.4Ω
10.0	0.5X20	WHG-10-150	1500W 6.52A / 35.3Ω	WHG-10-200	2000W 8.69A / 26.5Ω
12.0	0.5X24	WHG-12-150	1800W 7.82A / 29.4Ω	WHG-12-200	2400W 10.4A / 22.1Ω
14.0	0.5X28	WHG-14-150	2100W 9.13A / 25.2Ω	WHG-14-200	2800W 12.2A / 18.9Ω

TYPE OF INSTALLATION INDOOR *GOLD FIBERGLASS*

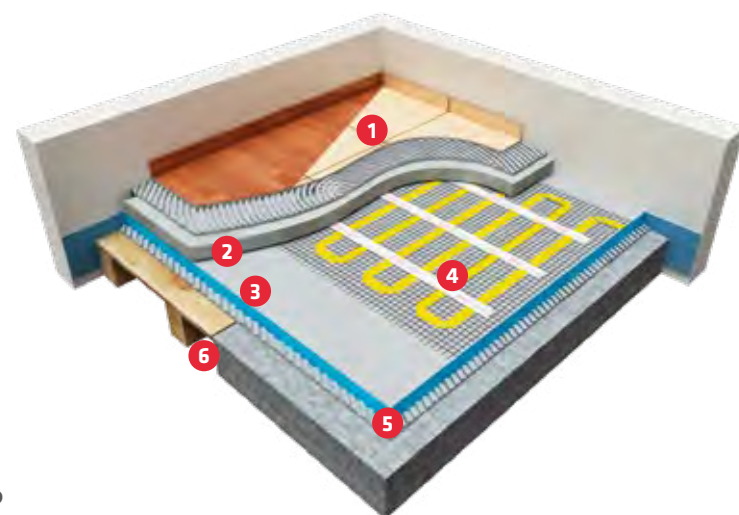
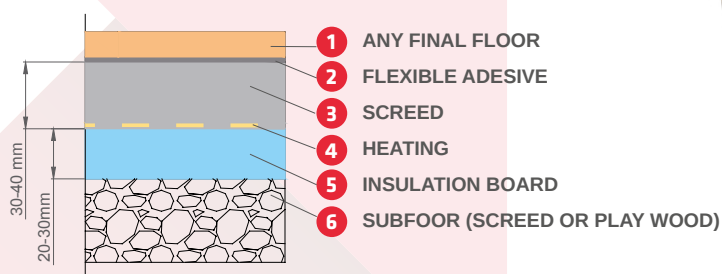
INSTALLATION UNDER TILES FROM ONLY 12MM THINCKNESS



GLUED WOOD FLOORS

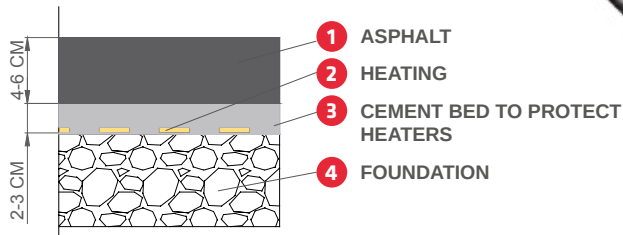


INSCREED FOR ALL COVERIGNS

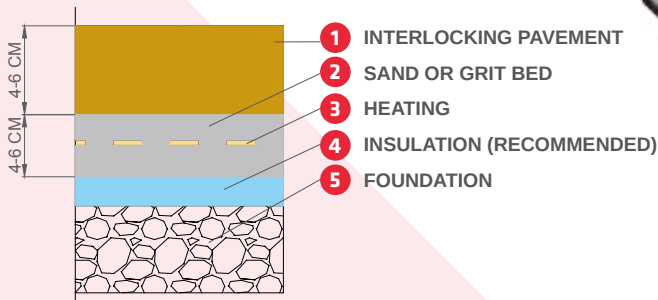


TYPE OF INSTALLATION OUTDOOR *GOLD FIBERGLASS*

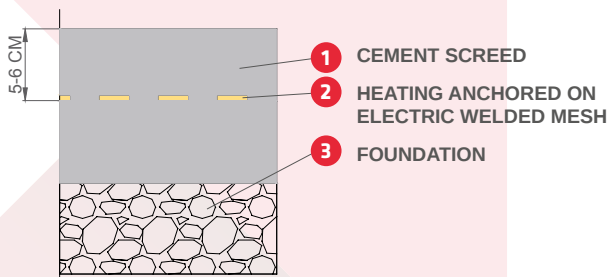
UNDERNEATH ASPHALT



UNDERNEATH INTERLOCKING ELEMENTS

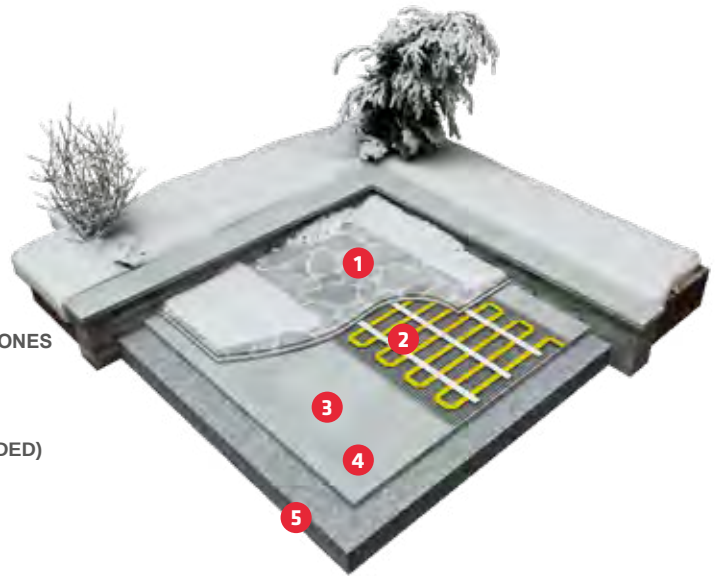
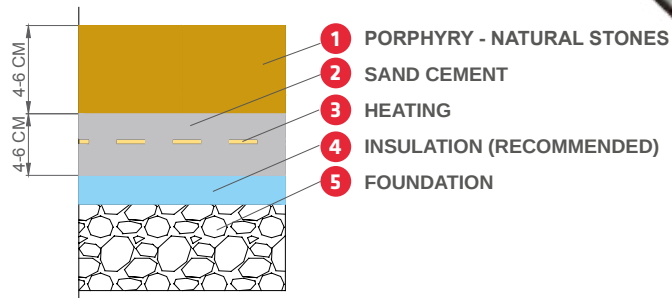


UNDERNEATH CEMENT



TYPE OF INSTALLATION OUTDOOR GOLD FIBERGLASS

UNDERNEATH PORPHYRY OR NATURAL STONES



PROJECTS



Tepidarium of the **Ship Costa Fascinosa**



Home in Sarmego - **Vicenza**





TECHNICAL DATA SHEET **GOLD ALUMINUM**



GOLD ALUMINUM



Warmset's **Gold Aluminum** hank comes covered with a gold-colored **polyimide film** coating, a material with high heating properties and very resistant to chemical agents, and an **aluminum covering** specially designed to heat **floors installed by dry-laying**. These characteristics make it possible for Warmset to offer this product with an exclusive **lifetime guarantee**.

This **underfloor heating** product cannot be installed in cement screeds or covered with glue, but yields its best with **parquet** and laminated wood floors installed by dry-laying or with floating floors, **vinyl floors** or **carpet**. These materials can be installed in direct contact with Warmset technology, thus guaranteeing that the system is fully up and running fast and a **uniform spread of heat**.



GUARANTEES AND CERTIFICATIONS



LIFETIME
WARRANTY



RIBBON SAFE
GUARANTEE



DIMENSIONS AND CHARACTERISTICS

GOLD ALUMINUM

COVERED AREA (m ²)	DIMENSION (LINEAR METER)	65W/m ²		85W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)	MODEL	POWER(W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHA-0.5-65	32.5W 0.14A / 1627.7Ω	WHA-0.5-85	42.5W 0.18A / 1170Ω
1.0	0,5X2	WHA-1-65	65W 0.28A / 813.8Ω	WHA-1-85	85W 0.36A / 622Ω
1.5	0,5X3	WHA-1,5-6	97.5W 0.42A / 542.6Ω	WHA-1.5-85	127.5W 0.55A / 415Ω
2.0	0.5X4	WHA-2-65	130W 0.57A / 406.9Ω	WHA-2-85	170W 0.74A / 311Ω
2.5	0.5X5	WHA-2,5-65	162.5W 0.71A / 325.5Ω	WHA-2.5-85	213W 0.92A / 249Ω
3.0	0.5X6	WHA-3-65	195W 0.85A / 271.3Ω	WHA-3-85	255W 1.11A / 207Ω
3.5	0.5X7	WHA-3,5-65	227.5W 0.99A / 232.5Ω	WHA-3.5-85	298W 1.29A / 178Ω
4.0	0.5X8	WHA-4-65	260W 1.13A / 203.5Ω	WHA-4-85	340W 1.66A / 1170Ω
4.5	0.5X9	WHA-4,5-65	292.5W 1,278A / 180.9Ω	WHA-4.5-85	383W 0,18A / 1170Ω
5.0	0.5X10	WHA-5-65	325W 1.41A / 162.8Ω	WHA-5-85	425W 1.85A / 125Ω
6.0	0.5X12	WHA-6-65	390W 1.70A / 135.6Ω	WHA-6-85	510W 2.21A / 104Ω
7.0	0.5X14	WHA-7-65	455W 1.98A / 116.3Ω	WHA-7-85	595W 2.58A / 88.9Ω
8.0	0.5X16	WHA-8-65	520W 2.26A / 101.7Ω	WHA-8-85	680W 2.95A / 77.8Ω
9.0	0.5X18	WHA-9-65	585W 2.54A / 90.4Ω	WHA-9-85	765W 3.33A / 69.2Ω
10.0	0.5X20	WHA-10-65	650W 2.83A / 81.4Ω	WHA-10-85	850W 3.70A / 62.2Ω
12.0	0.5X24	WHA-12-65	780W 3.39A / 67.8Ω	WHA-12-85	1020W 4.43A / 51.8Ω
14.0	0.5X28	WHA-14-65	910W 3.96A / 58.1Ω	WHA-14-85	1190W 5.17A / 44.5Ω

DIMENSIONS AND CHARACTERISTICS

GOLD ALUMINUM

COVERED AREA (m ²)	DIMENSION (LINEAR METER)	100W/m ²		120W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)	MODEL	POWER (W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHA-0.5-100	50W 0.21A / 1058Ω	WHA-0.5-120	60W 0.26A / 882Ω
1.0	0,5X2	WHA-1-100	100W 0.43A / 529Ω	WHA-1-120	120W 0.52A / 441Ω
1.5	0,5X3	WHA-1.5-100	150W 0.65A / 353Ω	WHA-1.5-120	180W 0.78A / 294Ω
2.0	0.5X4	WHA-2-100	200W 0.86A / 265Ω	WHA-2-120	240W 1.04A / 220Ω
2.5	0.5X5	WHA-2.5-100	250W 1.08A / 212Ω	WHA-2.5-120	300W 1.30A / 177Ω
3.0	0.5X6	WHA-3-100	300W 1.30A / 177Ω	WHA-3-120	360W 1.56A / 147Ω
3.5	0.5X7	WHA-3.5-100	350W 1.52A / 151Ω	WHA-3.5-120	420W 1.83A / 126Ω
4.0	0.5X8	WHA-4-100	400W 1.73A / 133Ω	WHA-4-120	480W 2.08A / 110Ω
4.5	0.5X9	WHA-4.5-100	450W 1.95A / 118Ω	WHA-4.5-120	540W 2.34A / 98.0Ω
5.0	0.5X10	WHA-5-100	500W 2.17A / 106Ω	WHA-5-120	600W 2.60A / 88.7Ω
6.0	0.5X12	WHA-6-100	600W 2.60A / 88.7Ω	WHA-6-120	720W 3.13A / 73.5Ω
7.0	0.5X14	WHA-7-100	700W 3.04A / 75.6Ω	WHA-7-120	840W 3.65A / 63.0Ω
8.0	0.5X16	WHA-8-100	800W 3.47A / 66.2Ω	WHA-8-120	960W 4.17A / 55.1Ω
9.0	0.5X18	WHA-9-100	900W 3.91A / 58.8Ω	WHA-9-120	1080W 4.69A / 53.8Ω
10.0	0.5X20	WHA-10-100	1000W 4.34A / 52.9Ω	WHA-10-120	1200W 5.21A / 44.1Ω
12.0	0.5X24	WHA-12-100	1200W 5.21A / 44.1Ω	WHA-12-120	1440W 6.26A / 36.7Ω
14.0	0.5X28	WHA-14-100	1400W 6.08A / 37.8Ω	WHA-14-120	1680W 7.3A / 31.4Ω

DIMENSIONS AND CHARACTERISTICS

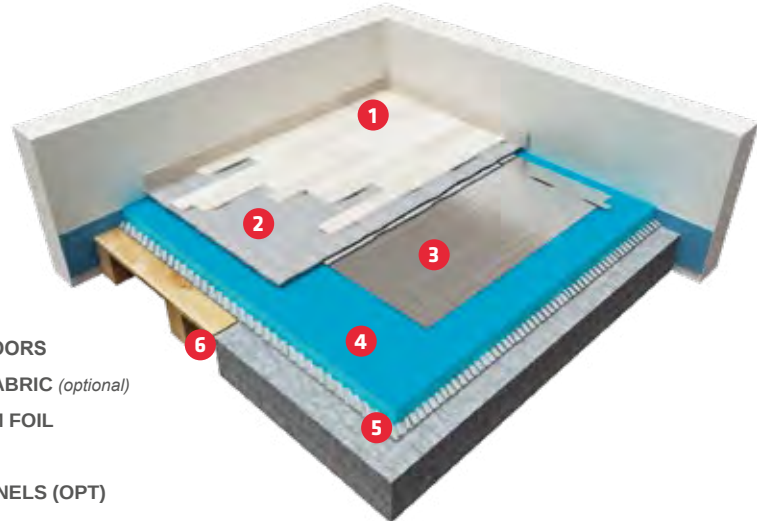
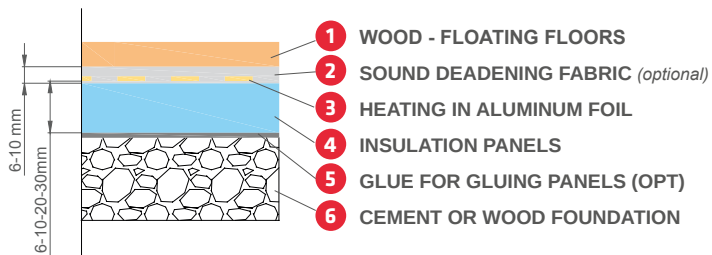
GOLD ALUMINUM

COVERED AREA (m ²)	DIMENSION (LINEAR METER)	140W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHA-0.5-140	70W 0.30A / 756Ω
1.0	0,5X2	WHA-1-140	140W 0.61A / 378Ω
1.5	0,5X3	WHA-1.5-140	210W 0.91A / 252Ω
2.0	0.5X4	WHA-2-140	280W 1.22A / 189Ω
2.5	0.5X5	WHA-2.5-140	350W 1.52A / 151Ω
3.0	0.5X6	WHA-3-140	420W 1.83A / 126Ω
3.5	0.5X7	WHA-3.5-140	490W 2.13A / 108Ω
4.0	0.5X8	WHA-4-140	560W 2.43A / 94.5Ω
4.5	0.5X9	WHA-4.5-140	630W 2.74A / 84.0Ω
5.0	0.5X10	WHA-5-140	700W 3.04A / 75.6Ω
6.0	0.5X12	WHA-6-140	840W 3.65A / 63.0Ω
7.0	0.5X14	WHA-7-140	980W 4.26A / 54.0Ω
8.0	0.5X16	WHA-8-140	1120W 4.87A / 47.2Ω
9.0	0.5X18	WHA-9-140	1260W 5.48A / 42.0Ω
10.0	0.5X20	WHA-10-140	1400W 6.08A / 37.8Ω
12.0	0.5X24	WHA-12-140	1680W 7.30A / 31.5Ω
14.0	0.5X28	WHA-14-140	1960W 8.52A / 27.0Ω

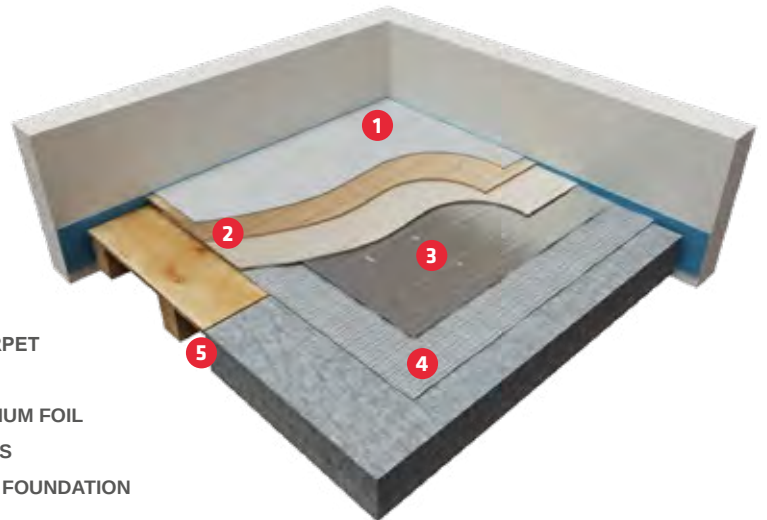
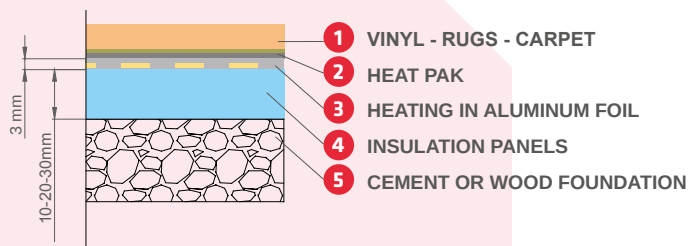
TYPE OF INSTALLATION

GOLD ALUMINUM

WOOD - FLOATING FLOORS

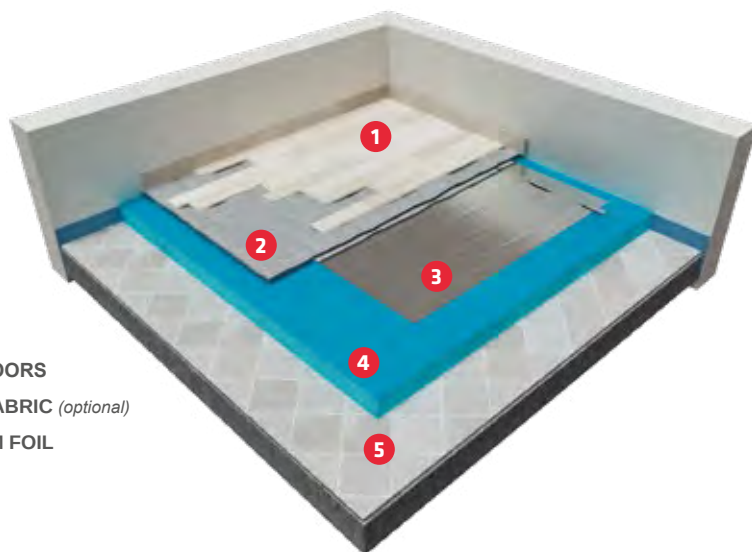
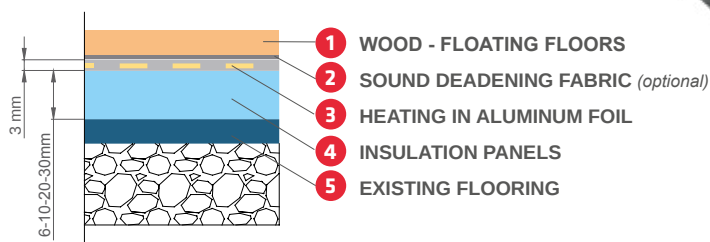


VINYL FLOORS, RUGS, CARPET

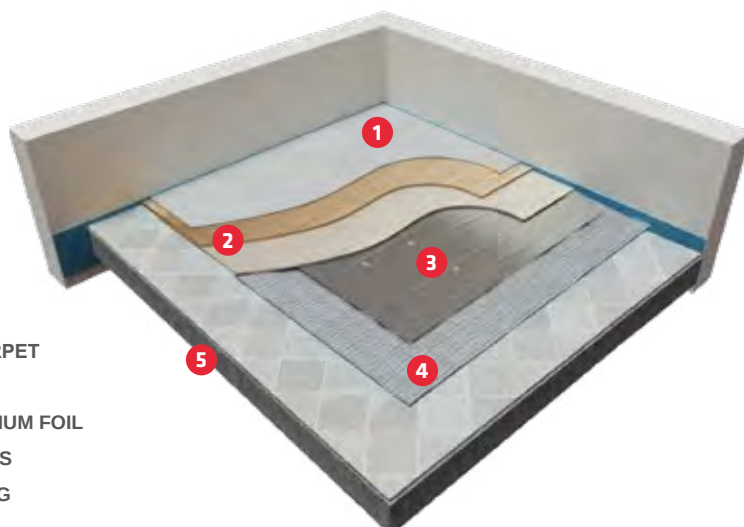
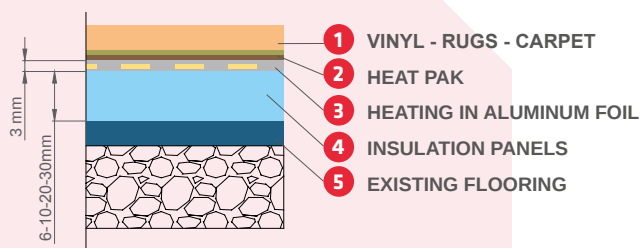


TYPE OF INSTALLATION FOR RENOVATION GOLD ALUMINUM

WOOD - FLOATING FLOORS



VINYL FLOORS, RUGS, CARPET

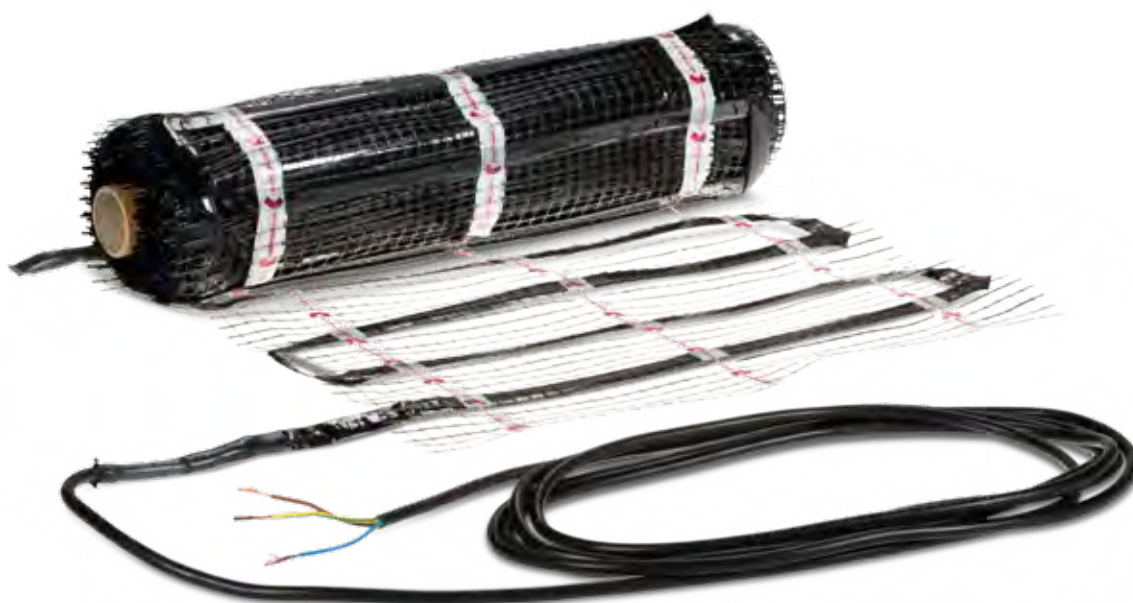




TECHNICAL DATA SHEET **BLACK FIBERGLASS**

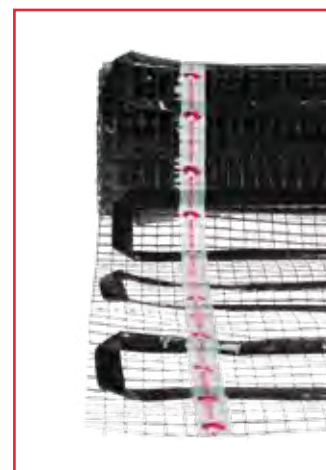


BLACK FIBERGLASS



Warmset's **Black** technology has an outer covering in the form of a **polypropylene sheath**. This property allows the underfloor heating system that you will put together to cover even **large surfaces** and makes it suitable both for home heating and for heating industrial warehouses, greenhouses, crops and sports fields.

The fiberglass mesh on which is fixed the Warmset multilayer laminated ribbon, is gathered in mats for convenient laying; the mesh is also used to be embedded in screed and glue, **preventing breaks and cracks**. The hank is designed to be installed in **both indoor and outdoor floors** of homes and industrial warehouses, but even underneath grass lawns.



GUARANTEES AND CERTIFICATIONS



DIMENSIONS AND CHARACTERISTICS

BLACK FIBERGLASS

COVERED AREA (m ²)	DIMENSION (LINEAR METER)	65W/m ²		85W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)	MODEL	POWER(W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHB-0.5-65	32.5W 0.14A / 1627.7Ω	WHB-0.5-85	42.5W 0.18A / 1170Ω
1.0	0,5X2	WHB-1-65	65W 0.28A / 813.8Ω	WHB-1-85	85W 0.36A / 622Ω
1.5	0,5X3	WHB-1,5-6	97.5W 0.42A / 542.6Ω	WHB-1.5-85	127.5W 0.55A / 415Ω
2.0	0.5X4	WHB-2-65	130W 0.57A / 406.9Ω	WHB-2-85	170W 0.74A / 311Ω
2.5	0.5X5	WHB-2,5-65	162.5W 0.71A / 325.5Ω	WHB-2.5-85	213W 0.92A / 249Ω
3.0	0.5X6	WHB-3-65	195W 0.85A / 271.3Ω	WHB-3-85	255W 1.11A / 207Ω
3.5	0.5X7	WHB-3,5-65	227.5W 0.99A / 232.5Ω	WHB-3.5-85	298W 1.29A / 178Ω
4.0	0.5X8	WHB-4-65	260W 1.13A / 203.5Ω	WHB-4-85	340W 1.66A / 1170Ω
4.5	0.5X9	WHB-4,5-65	292.5W 1,278A / 180.9Ω	WHB-4.5-85	383W 0,18A / 1170Ω
5.0	0.5X10	WHB-5-65	325W 1.41A / 162.8Ω	WHB-5-85	425W 1.85A / 125Ω
6.0	0.5X12	WHB-6-65	390W 1.70A / 135.6Ω	WHB-6-85	510W 2.21A / 104Ω
7.0	0.5X14	WHB-7-65	455W 1.98A / 116.3Ω	WHB-7-85	595W 2.58A / 88.9Ω
8.0	0.5X16	WHB-8-65	520W 2.26A / 101.7Ω	WHB-8-85	680W 2.95A / 77.8Ω
9.0	0.5X18	WHB-9-65	585W 2.54A / 90.4Ω	WHB-9-85	765W 3.33A / 69.2Ω
10.0	0.5X20	WHB-10-65	650W 2.83A / 81.4Ω	WHB-10-85	850W 3.70A / 62.2Ω
12.0	0.5X24	WHB-12-65	780W 3.39A / 67.8Ω	WHB-12-85	1020W 4.43A / 51.8Ω
14.0	0.5X28	WHB-14-65	910W 3.96A / 58.1Ω	WHB-14-85	1190W 5.17A / 44.5Ω

DIMENSIONS AND CHARACTERISTICS

BLACK FIBERGLASS

COVERED AREA (m ²)	DIMENSION (LINEAR METER)	100W/m ²		120W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)	MODEL	POWER (W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHB-0.5-100	50W 0.21A / 1058Ω	WHB-0.5-120	60W 0.26A / 882Ω
1.0	0,5X2	WHB-1-100	100W 0.43A / 529Ω	WHB-1-120	120W 0.52A / 441Ω
1.5	0,5X3	WHB-1.5-100	150W 0.65A / 353Ω	WHB-1.5-120	180W 0.78A / 294Ω
2.0	0.5X4	WHB-2-100	200W 0.86A / 265Ω	WHB-2-120	240W 1.04A / 220Ω
2.5	0.5X5	WHB-2.5-100	250W 1.08A / 212Ω	WHB-2.5-120	300W 1.30A / 177Ω
3.0	0.5X6	WHB-3-100	300W 1.30A / 177Ω	WHB-3-120	360W 1.56A / 147Ω
3.5	0.5X7	WHB-3.5-100	350W 1.52A / 151Ω	WHB-3.5-120	420W 1.83A / 126Ω
4.0	0.5X8	WHB-4-100	400W 1.73A / 133Ω	WHB-4-120	480W 2.08A / 110Ω
4.5	0.5X9	WHB-4.5-100	450W 1.95A / 118Ω	WHB-4.5-120	540W 2.34A / 98.0Ω
5.0	0.5X10	WHB-5-100	500W 2.17A / 106Ω	WHB-5-120	600W 2.60A / 88.7Ω
6.0	0.5X12	WHB-6-100	600W 2.60A / 88.7Ω	WHB-6-120	720W 3.13A / 73.5Ω
7.0	0.5X14	WHB-7-100	700W 3.04A / 75.6Ω	WHB-7-120	840W 3.65A / 63.0Ω
8.0	0.5X16	WHB-8-100	800W 3.47A / 66.2Ω	WHB-8-120	960W 4.17A / 55.1Ω
9.0	0.5X18	WHB-9-100	900W 3.91A / 58.8Ω	WHB-9-120	1080W 4.69A / 53.8Ω
10.0	0.5X20	WHB-10-100	1000W 4.34A / 52.9Ω	WHB-10-120	1200W 5.21A / 44.1Ω
12.0	0.5X24	WHB-12-100	1200W 5.21A / 44.1Ω	WHB-12-120	1440W 6.26A / 36.7Ω
14.0	0.5X28	WHB-14-100	1400W 6.08A / 37.8Ω	WHB-14-120	1680W 7.3A / 31.4Ω

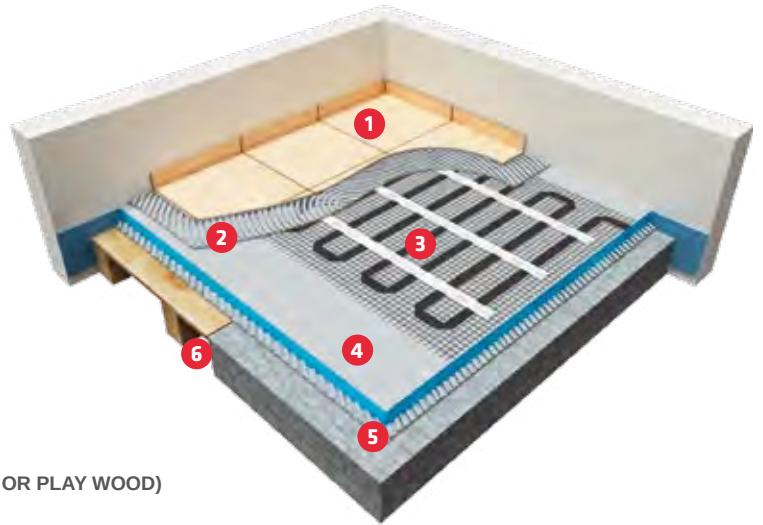
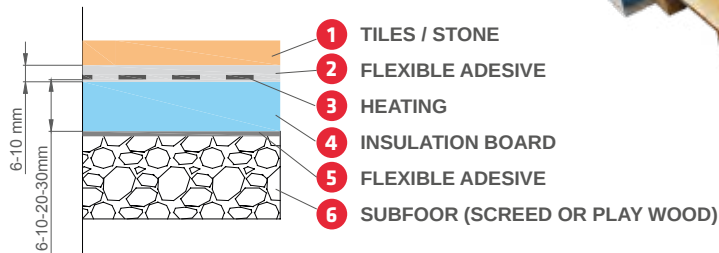
DIMENSIONS AND CHARACTERISTICS

BLACK FIBERGLASS

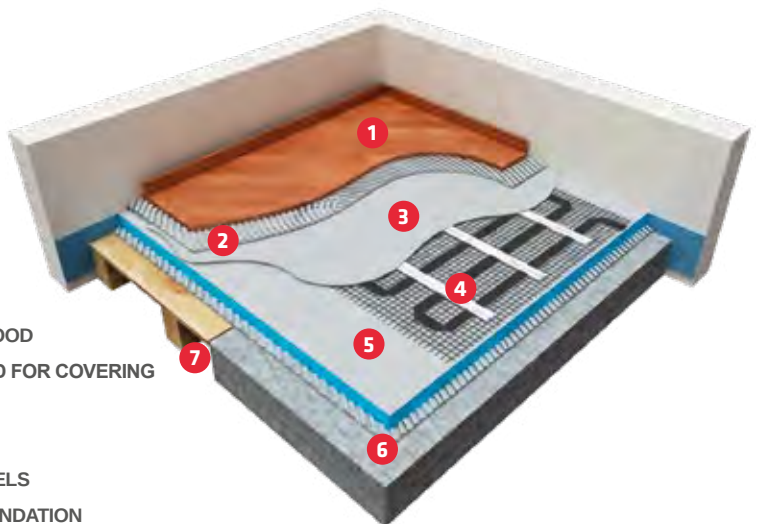
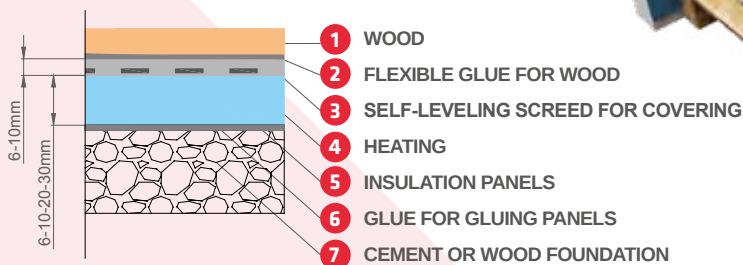
COVERED AREA (m ²)	DIMENSION (LINEAR METER)	150W/m ²		200W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)	MODEL	POWER (W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHB-0.5-150	75W 0.32A / 705Ω	WHB-0.5-200	100W 0.43A / 529Ω
1.0	0,5X2	WHB-1-150	150W 0.65A / 353Ω	WHB-1-200	200W 0.86A / 265Ω
1.5	0,5X3	WHB-1.5-150	225W 0.98A / 235Ω	WHB-1.5-200	300W 1.30A / 177Ω
2.0	0.5X4	WHB-2-150	300W 1.30A / 177Ω	WHB-2-200	400W 1.73A / 133Ω
2.5	0.5X5	WHB-2.5-150	375W 1.63A / 141Ω	WHB-2.5-200	500W 2.17A / 106Ω
3.0	0.5X6	WHB-3-150	450W 1.95A / 118Ω	WHB-3-200	600W 2.60A / 88.7Ω
3.5	0.5X7	WHB-3.5-150	525W 2.28A / 101Ω	WHB-3.5-200	700W 3.04A / 75.6Ω
4.0	0.5X8	WHB-4-150	600W 2.60A / 88.7Ω	WHB-4-200	800W 3.47A / 66.2Ω
4.5	0.5X9	WHB-4.5-150	675W 2.93A / 78.4Ω	WHB-4.5-200	900W 3.91A / 58.8Ω
5.0	0.5X10	WHB-5-150	750W 3.26A / 70.5Ω	WHB-5-200	1000W 4.34A / 52.9Ω
6.0	0.5X12	WHB-6-150	900W 3.91A / 58.8Ω	WHB-6-200	1200W 5.21A / 44.1Ω
7.0	0.5X14	WHB-7-150	1050W 4.56A / 50.4Ω	WHB-7-200	1400W 6.08A / 37.8Ω
8.0	0.5X16	WHB-8-150	1200W 5.21A / 44.1Ω	WHB-8-200	1600W 6.95A / 33.1Ω
9.0	0.5X18	WHB-9-150	1350W 5.87A / 39.2Ω	WHB-9-200	1800W 7.82A / 29.4Ω
10.0	0.5X20	WHB-10-150	1500W 6.52A / 35.3Ω	WHB-10-200	2000W 8.69A / 26.5Ω
12.0	0.5X24	WHB-12-150	1800W 7.82A / 29.4Ω	WHB-12-200	2400W 10.4A / 22.1Ω
14.0	0.5X28	WHB-14-150	2100W 9.13A / 25.2Ω	WHB-14-200	2800W 12.2A / 18.9Ω

TYPE OF INSTALLATION INDOOR BLACK FIBERGLASS

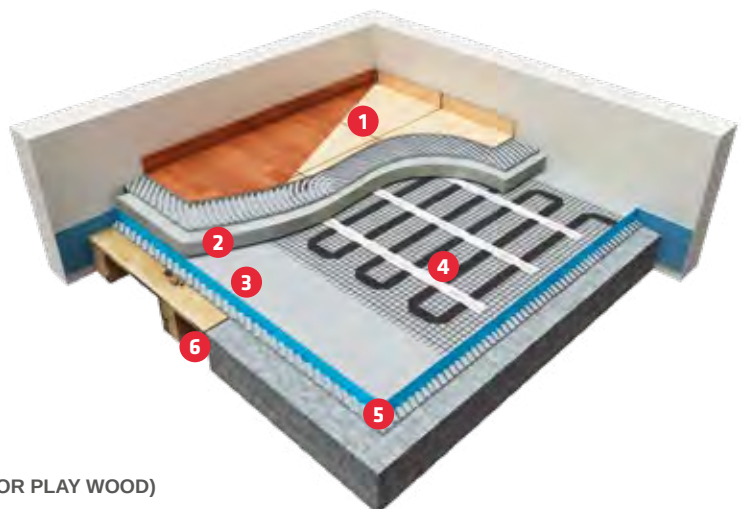
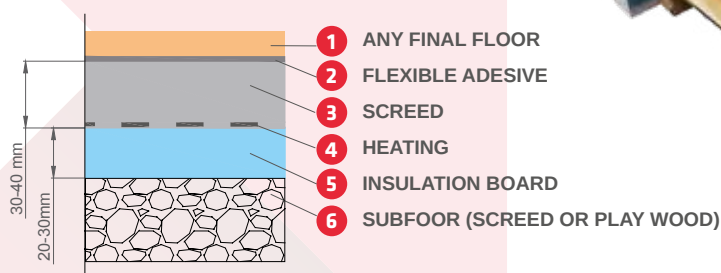
CERAMIC AND STONE FLOORS



GLUED WOOD FLOORS

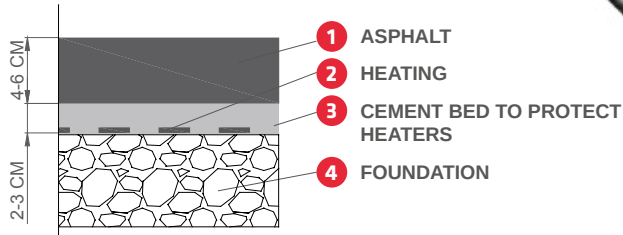


INSCREED FOR ALL COVERIGNS

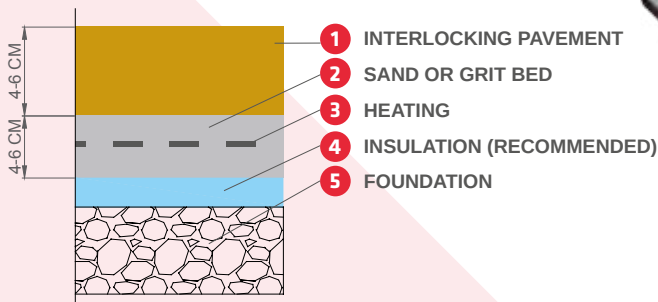


TYPE OF INSTALLATION OUTDOOR *BLACK FIBERGLASS*

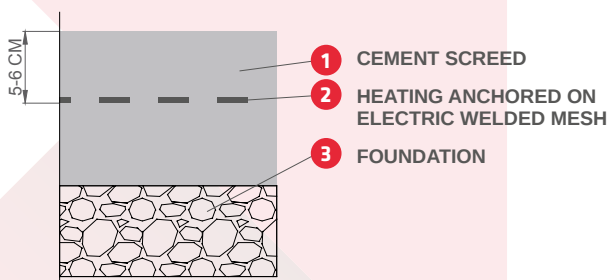
UNDERNEATH ASPHALT



UNDERNEATH INTERLOCKING ELEMENTS

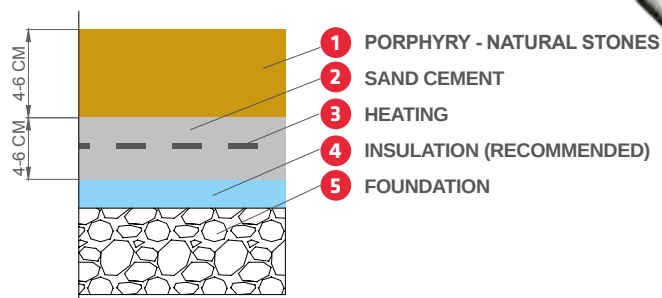


UNDERNEATH CEMENT



TYPE OF INSTALLATION OUTDOOR *BLACK FIBERGLASS*

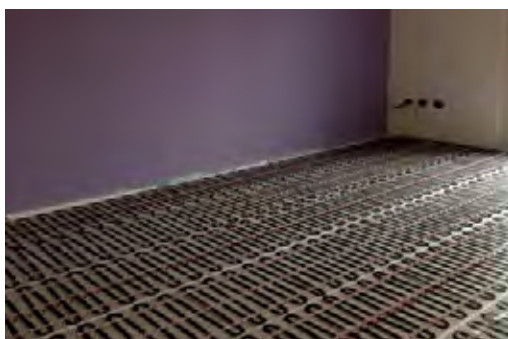
UNDERNEATH PORPHYRY OR NATURAL STONES



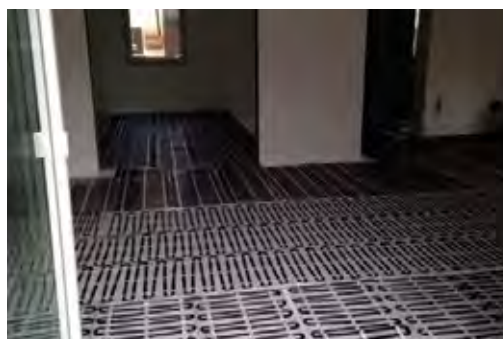
PROJECTS



Golf Course in the Czech Republic



Housing Complexes in Lodi





TECHNICAL DATA SHEET **BLACK ALUMINUM**



BLACK ALUMINUM



The innermost part of the **Black Aluminum** Warmset hank is composed of the company's patented technology plus **a polypropylene sheath** and an **aluminum covering** specially designed to heat **floors installed by dry-laying**.

This **underfloor heating** product cannot be installed in cement screeds or covered with glue, but yields its best with **parquet** and laminated wood floors installed by dry-laying or with floating floors, **vinyl floors** or **carpet**. These materials can be installed in direct contact with Warmset technology, thus guaranteeing that the system is fully up and running fast and a **uniform spread of heat**.



GUARANTEES AND CERTIFICATIONS



DIMENSIONS AND CHARACTERISTICS

BLACK ALUMINUM

COVERED AREA (m ²)	DIMENSION (LINEAR METER)	65W/m ²		85W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)	MODEL	POWER(W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHA-0.5-65	32.5W 0.14A / 1627.7Ω	WHA-0.5-85	42.5W 0.18A / 1170Ω
1.0	0,5X2	WHA-1-65	65W 0.28A / 813.8Ω	WHA-1-85	85W 0.36A / 622Ω
1.5	0,5X3	WHA-1,5-6	97.5W 0.42A / 542.6Ω	WHA-1.5-85	127.5W 0.55A / 415Ω
2.0	0.5X4	WHA-2-65	130W 0.57A / 406.9Ω	WHA-2-85	170W 0.74A / 311Ω
2.5	0.5X5	WHA-2,5-65	162.5W 0.71A / 325.5Ω	WHA-2.5-85	213W 0.92A / 249Ω
3.0	0.5X6	WHA-3-65	195W 0.85A / 271.3Ω	WHA-3-85	255W 1.11A / 207Ω
3.5	0.5X7	WHA-3,5-65	227.5W 0.99A / 232.5Ω	WHA-3.5-85	298W 1.29A / 178Ω
4.0	0.5X8	WHA-4-65	260W 1.13A / 203.5Ω	WHA-4-85	340W 1.66A / 1170Ω
4.5	0.5X9	WHA-4,5-65	292.5W 1,278A / 180.9Ω	WHA-4.5-85	383W 0,18A / 1170Ω
5.0	0.5X10	WHA-5-65	325W 1.41A / 162.8Ω	WHA-5-85	425W 1.85A / 125Ω
6.0	0.5X12	WHA-6-65	390W 1.70A / 135.6Ω	WHA-6-85	510W 2.21A / 104Ω
7.0	0.5X14	WHA-7-65	455W 1.98A / 116.3Ω	WHA-7-85	595W 2.58A / 88.9Ω
8.0	0.5X16	WHA-8-65	520W 2.26A / 101.7Ω	WHA-8-85	680W 2.95A / 77.8Ω
9.0	0.5X18	WHA-9-65	585W 2.54A / 90.4Ω	WHA-9-85	765W 3.33A / 69.2Ω
10.0	0.5X20	WHA-10-65	650W 2.83A / 81.4Ω	WHA-10-85	850W 3.70A / 62.2Ω
12.0	0.5X24	WHA-12-65	780W 3.39A / 67.8Ω	WHA-12-85	1020W 4.43A / 51.8Ω
14.0	0.5X28	WHA-14-65	910W 3.96A / 58.1Ω	WHA-14-85	1190W 5.17A / 44.5Ω

DIMENSIONS AND CHARACTERISTICS

BLACK ALUMINUM

COVERED AREA (m ²)	DIMENSION (LINEAR METER)	100W/m ²		120W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)	MODEL	POWER (W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHA-0.5-100	50W 0.21A / 1058Ω	WHA-0.5-120	60W 0.26A / 882Ω
1.0	0,5X2	WHA-1-100	100W 0.43A / 529Ω	WHA-1-120	120W 0.52A / 441Ω
1.5	0,5X3	WHA-1.5-100	150W 0.65A / 353Ω	WHA-1.5-120	180W 0.78A / 294Ω
2.0	0.5X4	WHA-2-100	200W 0.86A / 265Ω	WHA-2-120	240W 1.04A / 220Ω
2.5	0.5X5	WHA-2.5-100	250W 1.08A / 212Ω	WHA-2.5-120	300W 1.30A / 177Ω
3.0	0.5X6	WHA-3-100	300W 1.30A / 177Ω	WHA-3-120	360W 1.56A / 147Ω
3.5	0.5X7	WHA-3.5-100	350W 1.52A / 151Ω	WHA-3.5-120	420W 1.83A / 126Ω
4.0	0.5X8	WHA-4-100	400W 1.73A / 133Ω	WHA-4-120	480W 2.08A / 110Ω
4.5	0.5X9	WHA-4.5-100	450W 1.95A / 118Ω	WHA-4.5-120	540W 2.34A / 98.0Ω
5.0	0.5X10	WHA-5-100	500W 2.17A / 106Ω	WHA-5-120	600W 2.60A / 88.7Ω
6.0	0.5X12	WHA-6-100	600W 2.60A / 88.7Ω	WHA-6-120	720W 3.13A / 73.5Ω
7.0	0.5X14	WHA-7-100	700W 3.04A / 75.6Ω	WHA-7-120	840W 3.65A / 63.0Ω
8.0	0.5X16	WHA-8-100	800W 3.47A / 66.2Ω	WHA-8-120	960W 4.17A / 55.1Ω
9.0	0.5X18	WHA-9-100	900W 3.91A / 58.8Ω	WHA-9-120	1080W 4.69A / 53.8Ω
10.0	0.5X20	WHA-10-100	1000W 4.34A / 52.9Ω	WHA-10-120	1200W 5.21A / 44.1Ω
12.0	0.5X24	WHA-12-100	1200W 5.21A / 44.1Ω	WHA-12-120	1440W 6.26A / 36.7Ω
14.0	0.5X28	WHA-14-100	1400W 6.08A / 37.8Ω	WHA-14-120	1680W 7.3A / 31.4Ω

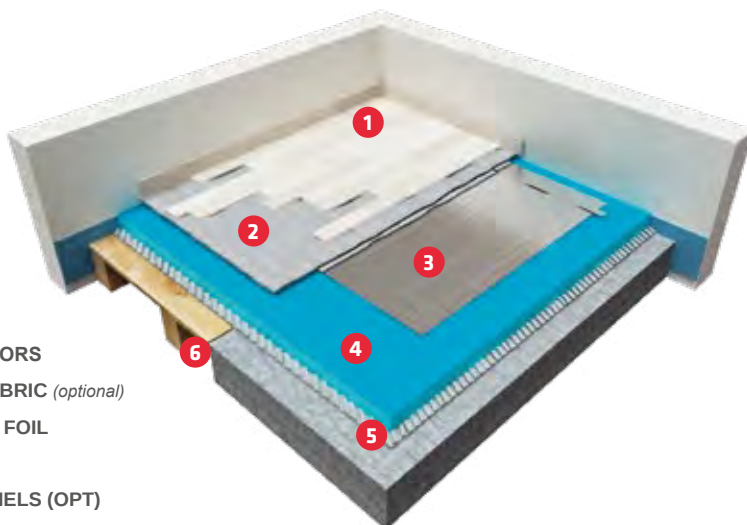
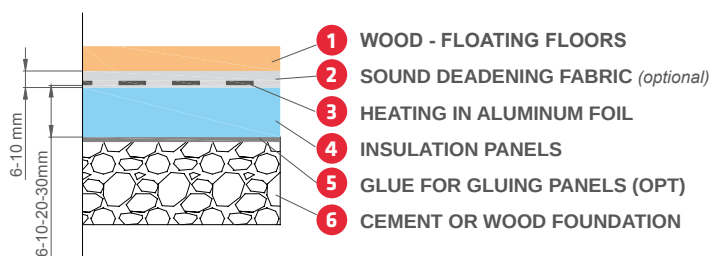
DIMENSIONS AND CHARACTERISTICS

BLACK ALUMINUM

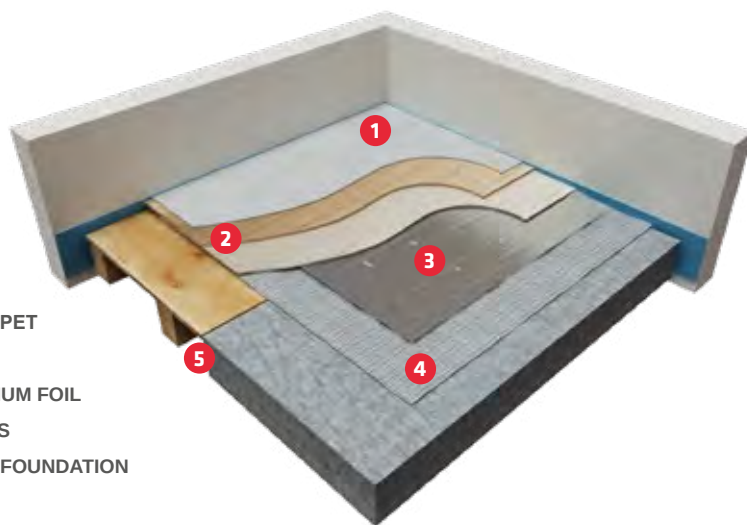
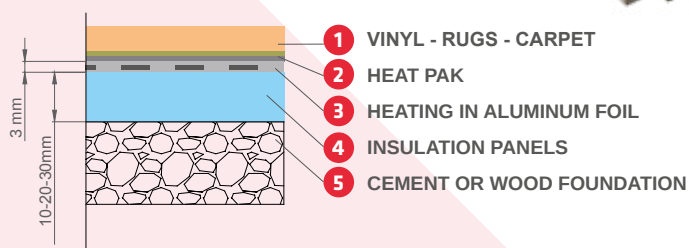
COVERED AREA (m ²)	DIMENSION (LINEAR METER)	140W/m ²	
		MODEL	POWER (W) AMP(A) / OHM(Ω)
0.5	0,5X1	WHA-0.5-140	70W 0.30A / 756Ω
1.0	0,5X2	WHA-1-140	140W 0.61A / 378Ω
1.5	0,5X3	WHA-1.5-140	210W 0.91A / 252Ω
2.0	0.5X4	WHA-2-140	280W 1.22A / 189Ω
2.5	0.5X5	WHA-2.5-140	350W 1.52A / 151Ω
3.0	0.5X6	WHA-3-140	420W 1.83A / 126Ω
3.5	0.5X7	WHA-3.5-140	490W 2.13A / 108Ω
4.0	0.5X8	WHA-4-140	560W 2.43A / 94.5Ω
4.5	0.5X9	WHA-4.5-140	630W 2.74A / 84.0Ω
5.0	0.5X10	WHA-5-140	700W 3.04A / 75.6Ω
6.0	0.5X12	WHA-6-140	840W 3.65A / 63.0Ω
7.0	0.5X14	WHA-7-140	980W 4.26A / 54.0Ω
8.0	0.5X16	WHA-8-140	1120W 4.87A / 47.2Ω
9.0	0.5X18	WHA-9-140	1260W 5.48A / 42.0Ω
10.0	0.5X20	WHA-10-140	1400W 6.08A / 37.8Ω
12.0	0.5X24	WHA-12-140	1680W 7.30A / 31.5Ω
14.0	0.5X28	WHA-14-140	1960W 8.52A / 27.0Ω

TYPE OF INSTALLATION BLACK ALUMINUM

WOOD - FLOATING FLOORS



VINYL FLOORS, RUGS, CARPET



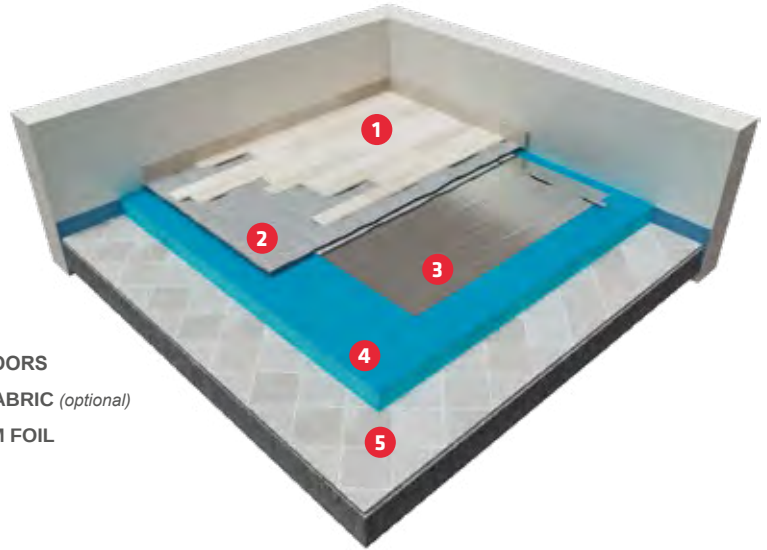
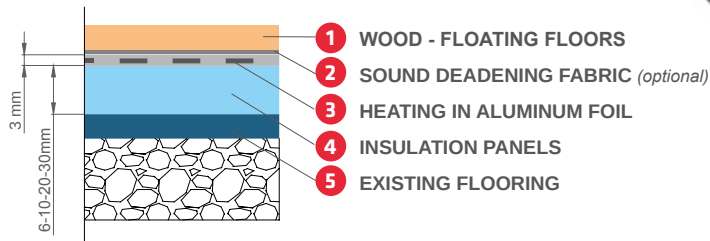
PROJECTS



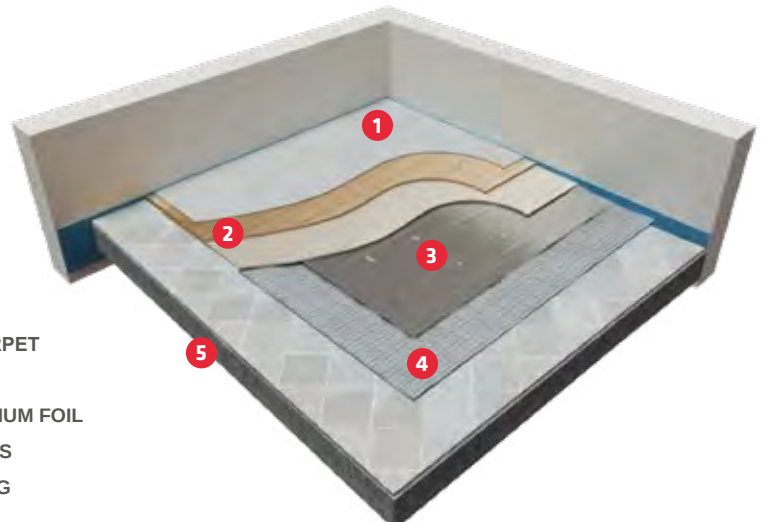
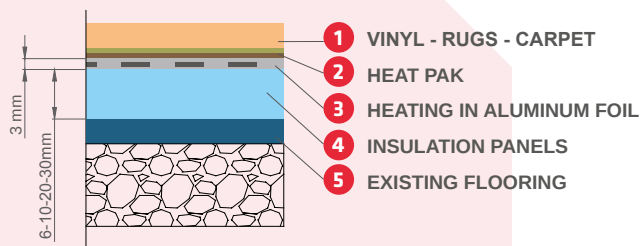
For the presentation of the *Pirelli Calendar* at the contemporary art museum, *Hangar Bicocca in Milan*, an underfloor electric heating system was installed over a total surface area of 4000 m².

TYPE OF INSTALLATION FOR RENOVATION BLACK ALUMINUM

WOOD - FLOATING FLOORS



VINYL FLOORS, RUGS, CARPET





Warmset srl

Via Ettore Majorana, 1

36075 Montecchio Maggiore (VI) – Italy

T. +39 0444 491328 – F. +39 0444 496757

info@warmset.com – www.warmset.com