



Basalt
paving

Basalt paving

The molten stone, raw material from the Slapany basalt quarry, is cast into metal moulds and then the melt, already in the shape of final products, is slowly cooled in a tunnel cooling kiln. After inspection, even the failed castings get a new chance—we use them again as raw material. Melting takes place at temperatures of around 1300°C and cooling takes up to 18 hours.

This is our production process in very simplified terms. If you are interested, you can visit us and we will be happy to show you and explain the whole process in detail. You can see our molten-basalt volcano with your own eyes.

The paving that is created in this way is extremely durable and long-lasting, and very attractive as well.

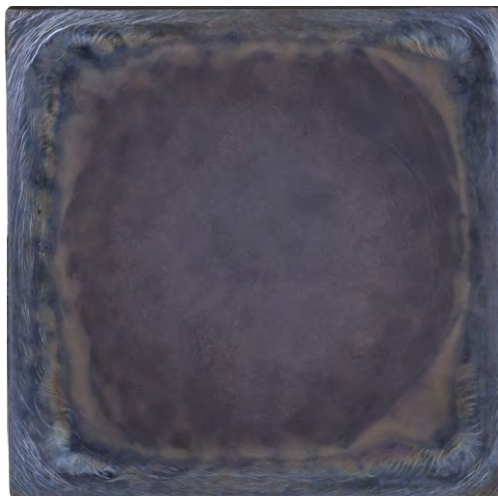
The so-called **industrial tiles** make use of properties such as durability, strength, hardness, chemical resistance and abrasion resistance.

Interior or **variable tiles** have a characteristic and attractive appearance. Customers look mainly for aesthetics when using them and do not prioritize the properties found in industrial paving, even though they are preserved.

Our products, with their excellent chemical resistance and other outstanding properties, find application in both traditional and completely unconventional solutions.

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INTERIOR PAVING



square interior tiles

tile size 200x200 and 250x250 mm
tile thickness 22 or 25 mm

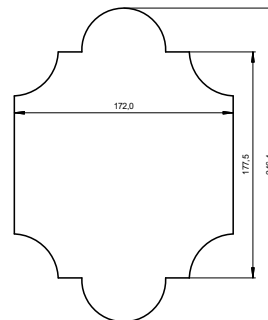
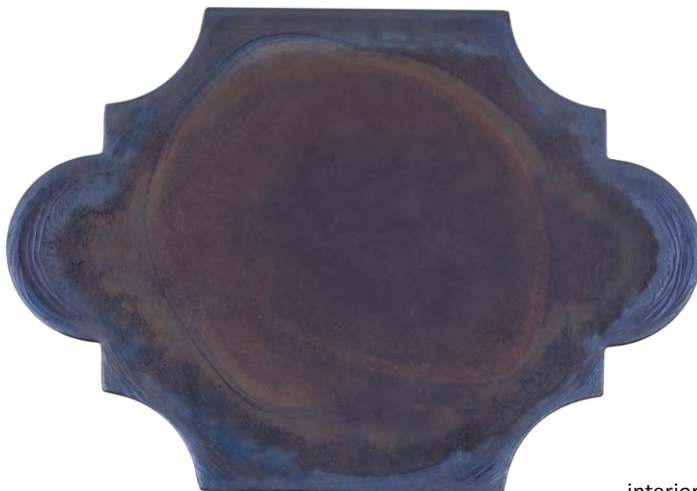
number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0000034	200/200/22JRI	200x200	22	JR	25	24.00	600	2.4	60.0	1460.0
0008256	200/200/25JRI	200x200	25	JR	25	22.08	552	2.8	70.0	1565.6
0000064	250/250/22JRI	250x250	22	JR	16	23.44	375	3.7	59.2	1407.5
0025830	250/250/25JRI	250x250	25	JR	16	22.50	360	4.4	70.4	1604.0

(JR – designation of grooves on the back side of the tile, more on p. 43)

INTERIOR PAVING



INTERIOR PAVING



interior tile **FLORENTINA**

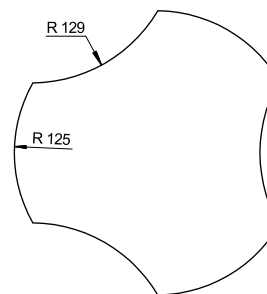
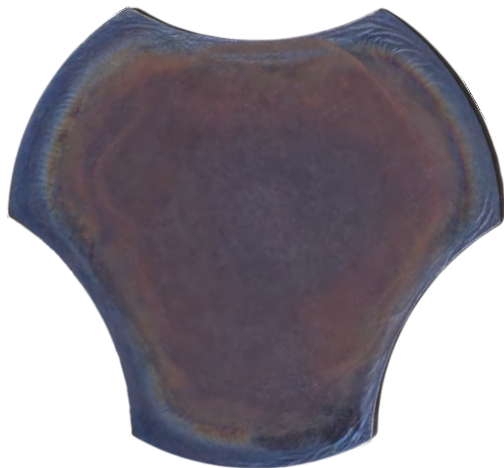
number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0000100	FLORENTINA/25H	247x172	25	H	30	21.7	650	2.2	66	1450

(H – designation of treatment on the back side of the tile, more on p. 43)

INTERIOR PAVING



INTERIOR PAVING

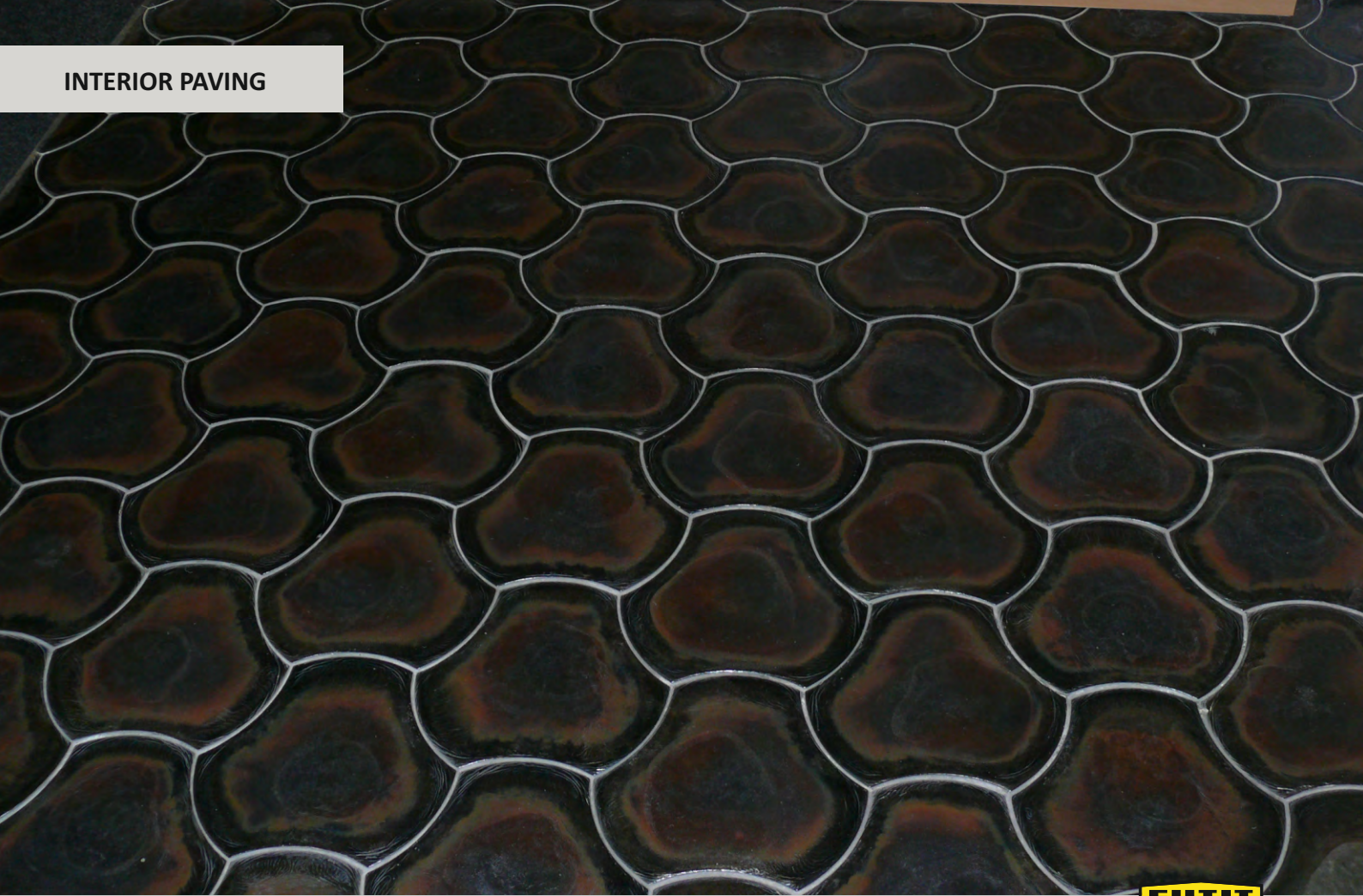


interior tile **CHARLOTTA**

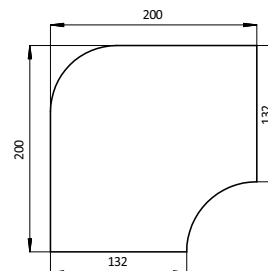
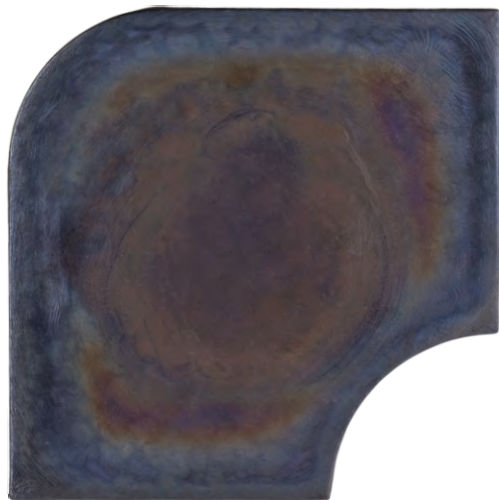
number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0000101	CHARLOTTA/25H	∅ 250	25	H	25	20	500	3	75	1520

(H – designation of treatment on the back side of the tile, more on p. 43)

INTERIOR PAVING



INTERIOR PAVING



interior tile **MAVA 1**

number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0000102	MAVA 1	200x200	22	JR	28	21.43	600	2.2	61.6	1340

(JR – designation of grooves on the back side of the tile, more on p. 43)

INTERIOR PAVING

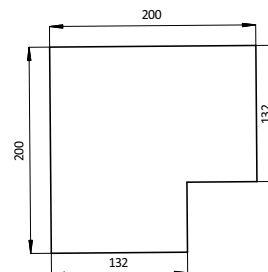


layout A



layout B

INTERIOR PAVING



interior tile **MAVA 2**

number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0000103	MAVA 2	200x200	22	JR	28	21.43	600	2.3	64.4	1400

(JR – designation of grooves on the back side of the tile, more on p. 43)

INTERIOR PAVING



layout A



layout B



layout C

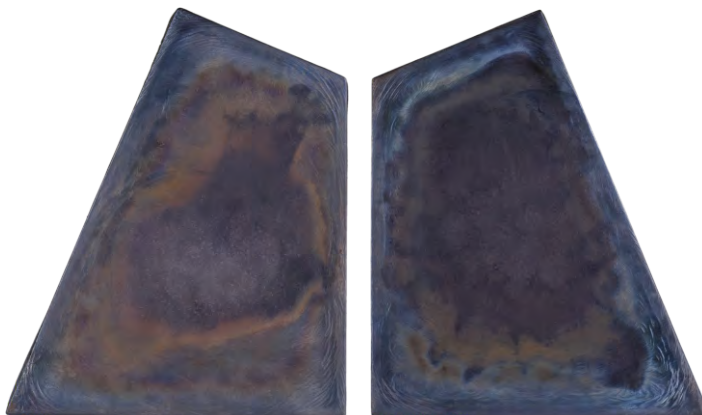


layout D



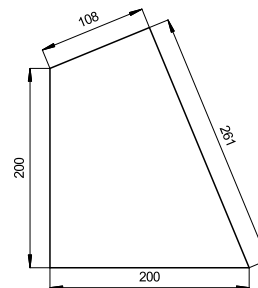
layout E

INTERIOR VARIABLE PAVING



LEFT (L)

RIGHT (P)



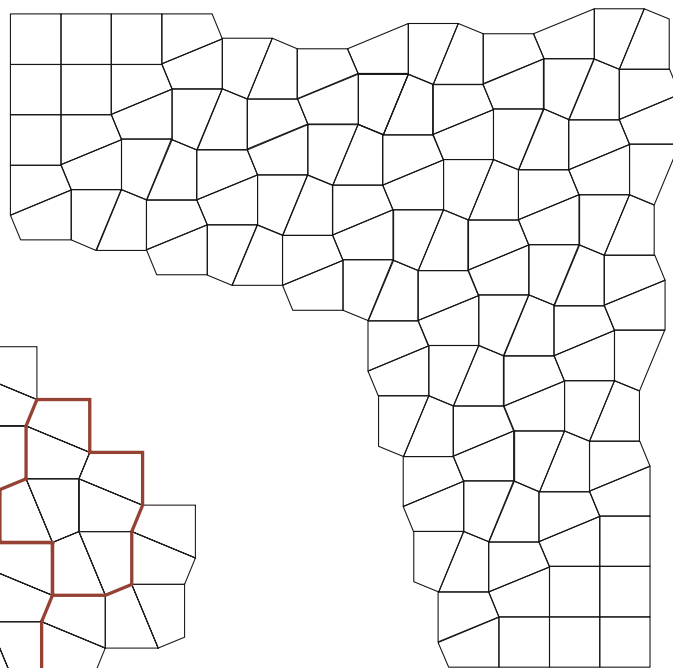
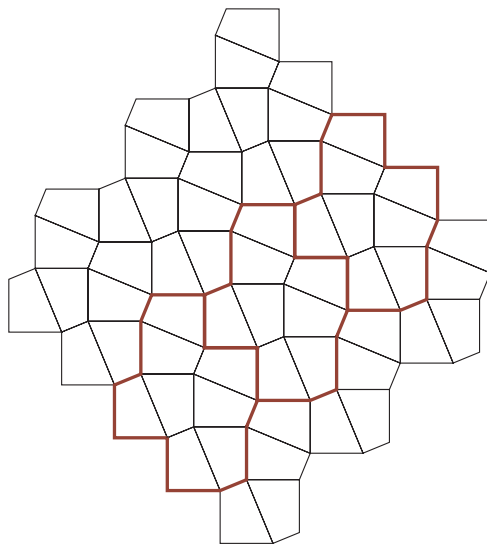
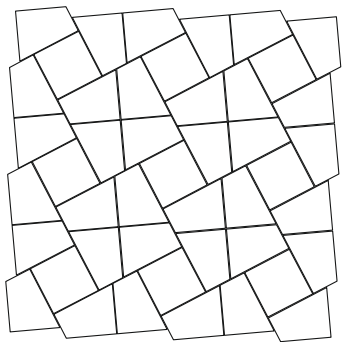
P – right version
(left version mirrored)

variable tile **THALES ALFA**
tile thickness 25 mm

number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0001795	THALES ALFA L	261x200	25	JR	29	13.24	384	2.5	72.5	980
0001796	THALES ALFA P	261x200	25	JR	29	13.24	384	2.5	72.5	980

(JR – designation of grooves on the back side of the tile, more on p. 43)

INTERIOR VARIABLE PAVING



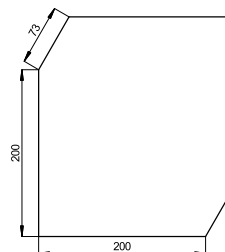
INTERIOR VARIABLE PAVING



LEFT (L)



RIGHT (P)



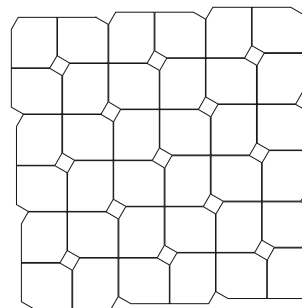
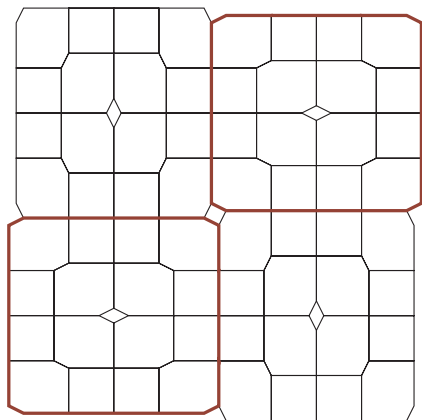
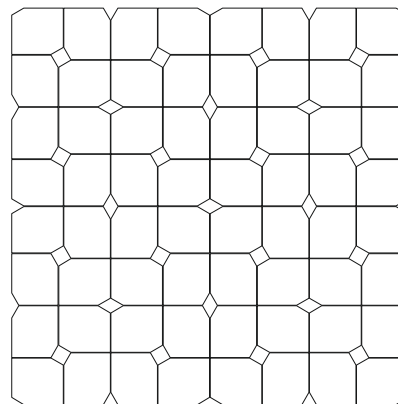
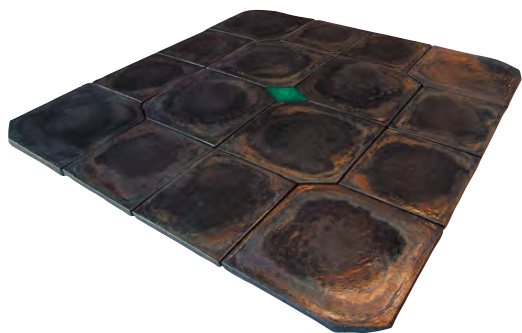
P – right version
(left version mirrored)

variable tile **THALES BETA**
tile thickness 22 mm

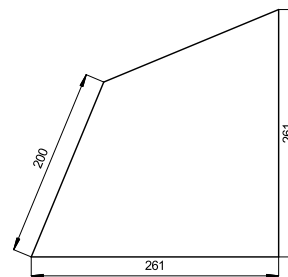
number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0001134	THALES BETA L	260x235	22	JR	17	15.88	270	3.8	64.6	1046
0001135	THALES BETA P	260x235	22	JR	17	15.88	270	3.8	64.6	1046

(JR – designation of grooves on the back side of the tile, more on p. 43)

INTERIOR VARIABLE PAVING



INTERIOR VARIABLE PAVING

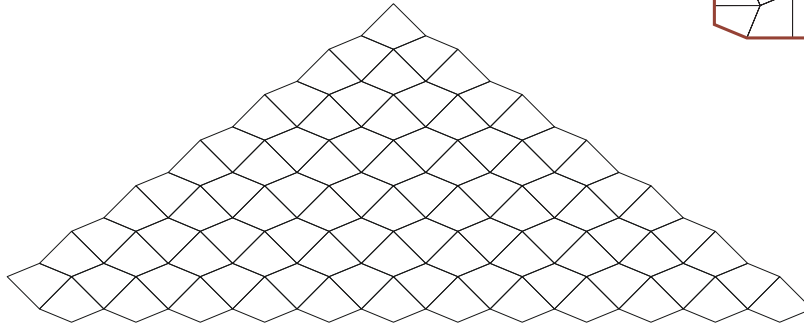
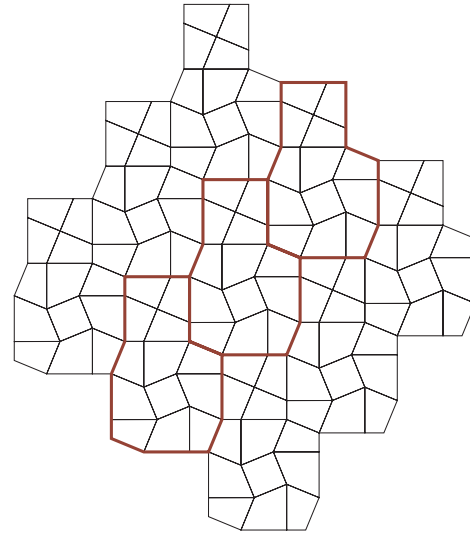
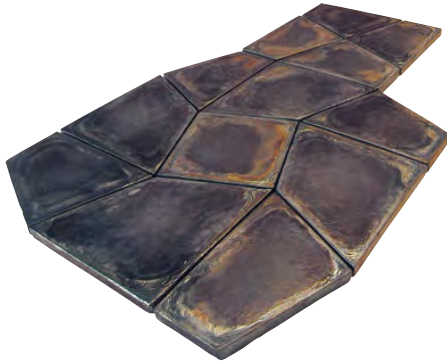


variable tile **THALES GAMMA**
tile thickness 25 mm

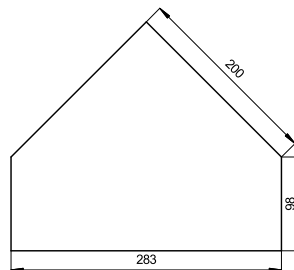
number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0001792	THALES GAMMA	261x200	25	JR	21	14.28	300	3.6	75.6	1100.0

(JR – designation of grooves on the back side of the tile, more on p. 43)

INTERIOR VARIABLE PAVING



INTERIOR VARIABLE PAVING

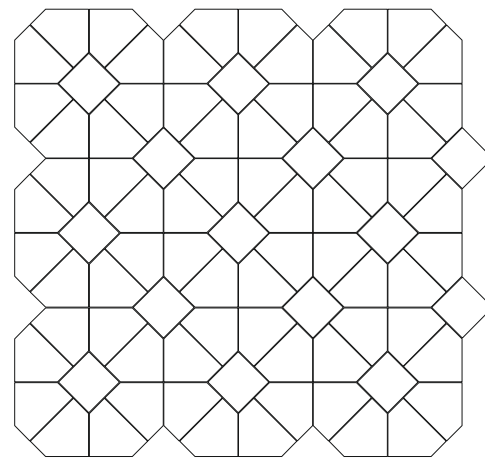
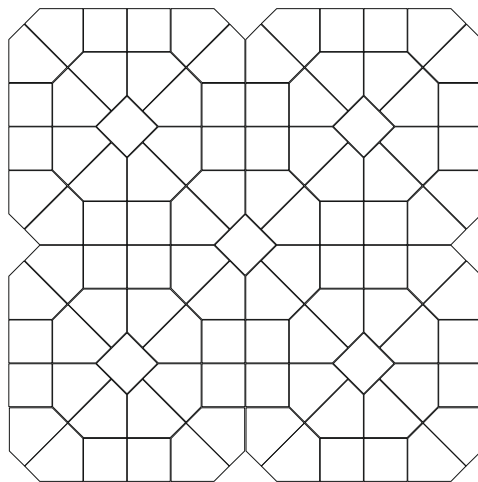
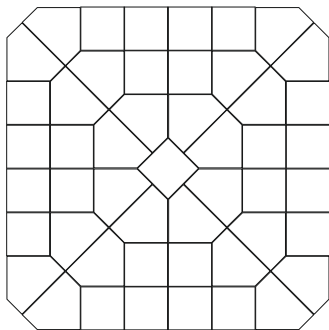


variable tile **THALES DELTA**
tile thickness 25 mm

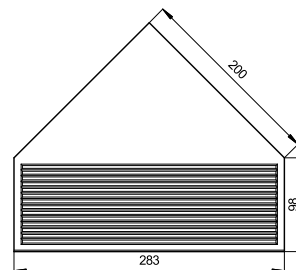
number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0001794	THALES DELTA	283x98	25	JR	21	14.57	306	3.5	73.5	1091.0

(JR – designation of grooves on the back side of the tile, more on p. 43)

INTERIOR VARIABLE PAVING



INTERIOR VARIABLE PAVING



variable tile **THALES DELTA SCHODNICE** (STEP EDGE)
tile thickness 25 mm

number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0010306	THALES DELTA SCHOD.	283x98	25	JR	21	14.57	306	3.5	73.5	1091.0

(JR – designation of grooves on the back side of the tile, more on p. 43)

INTERIOR VARIABLE PAVING



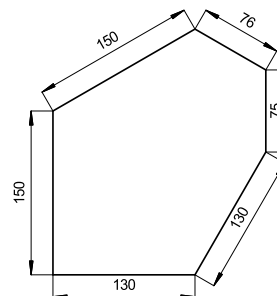
INTERIOR VARIABLE PAVING



LEFT (L)



RIGHT (P)



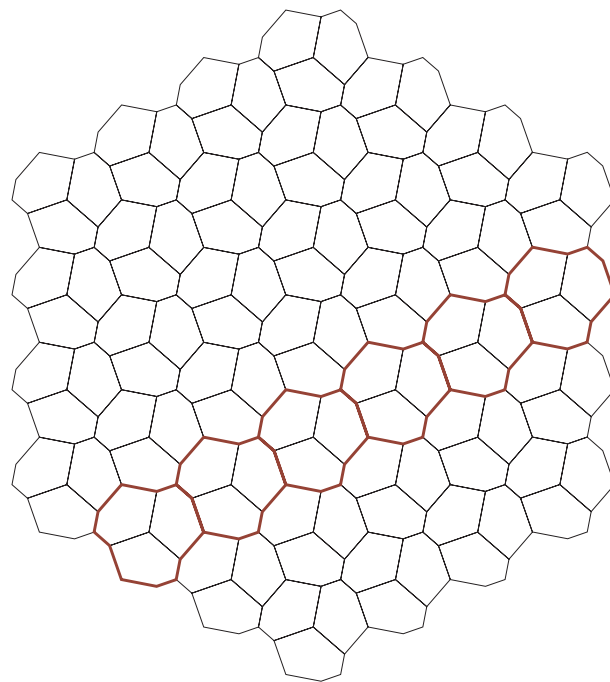
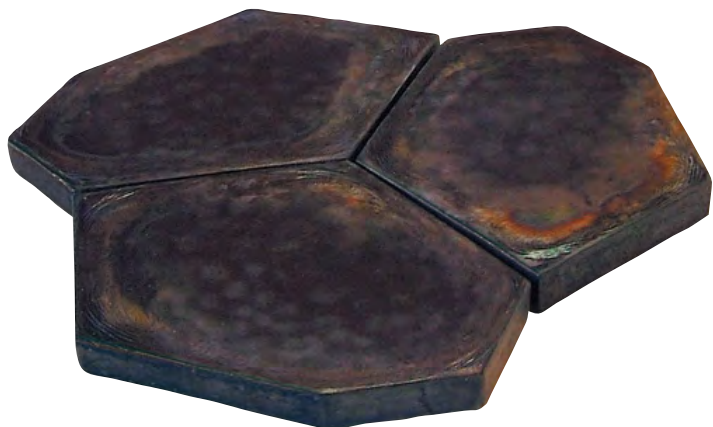
L – left version
(right version mirrored)

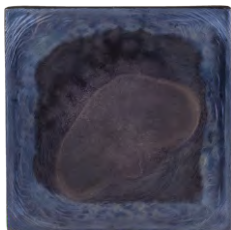
variable tile **THALES OMEGA**
tile thickness 25 mm

number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0011829	THALES OMEGA L	150x130	25	JR	30	16.00	480	2.5	75.0	1220.0
0011828	THALES OMEGA P	150x130	25	JR	30	16.00	480	2.5	75.0	1220.0

(JR – designation of grooves on the back side of the tile, more on p. 43)

INTERIOR VARIABLE PAVING



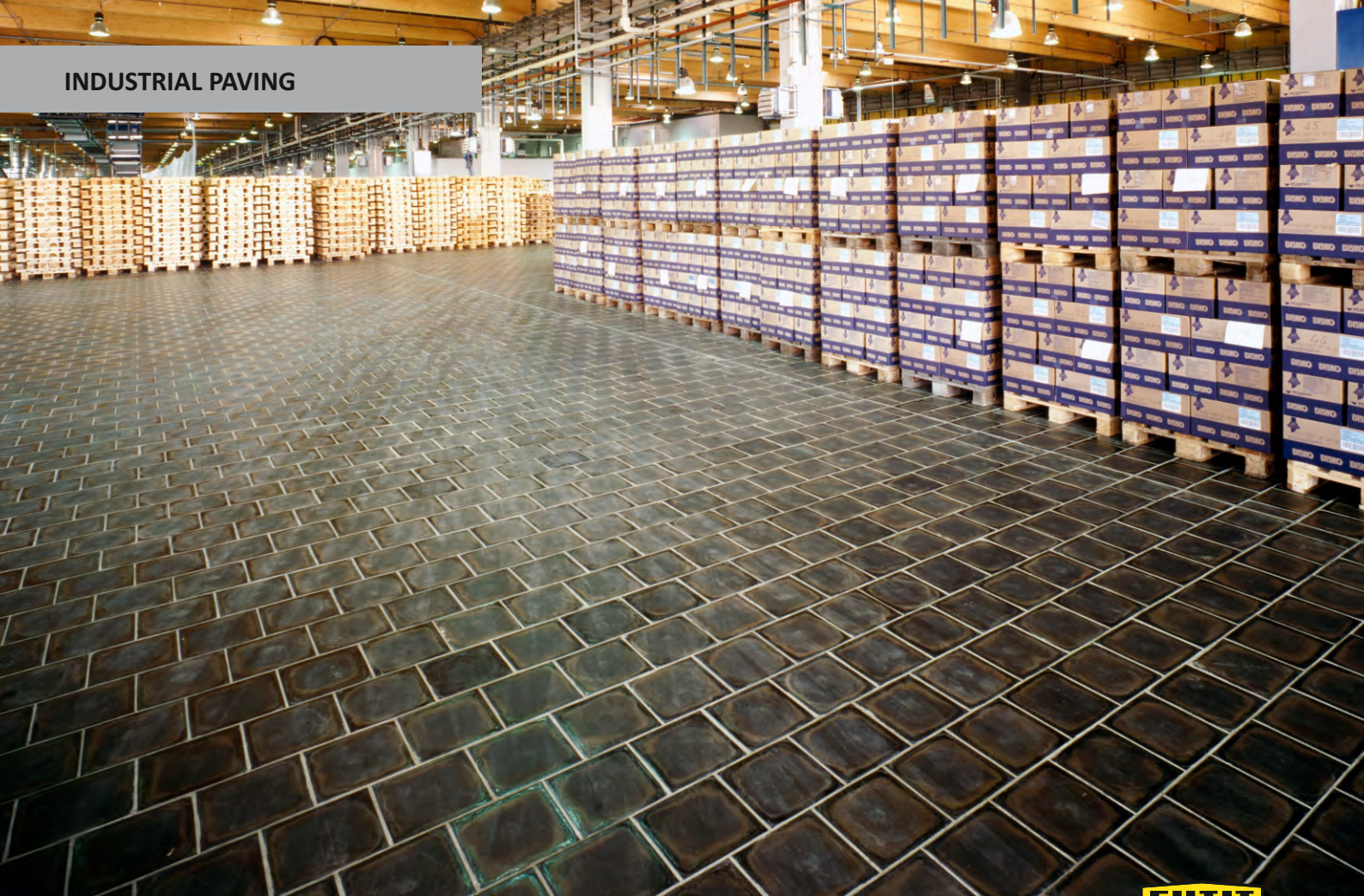


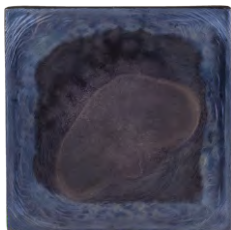
square/rectangular industrial tile

number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0002850	180/115/20JR	180x115	20	JR	49	30.10	1472	1.00	49.0	1492.0
0000033	200/200/22JR	200x200	22	JR	25	24.00	600	2.40	60.0	1460.0
0001638	200/200/25JR	200x200	25	JR	25	22.08	552	2.80	70.0	1565.6
0000038	200/200/30R	200x200	30	R	25	19.20	480	3.10	77.5	1508.0
0000036	200/200/30JR	200x200	30	JR	25	19.20	480	3.40	85.0	1652.0
0000039	200/200/30 OTV M16	200x200	30	H	25	19.20	480	3.30	82.5	1604.0
0000042	200/200/40R	200x200	40	R	25	13.44	336	4.30	107.5	1464.8
0000003	200/70/30R	200x70	30	R	72	15.11	1088	1.20	86.4	1305.6
0003717	200/100/22JR	200x100	22	JR	50	19.20	960	1.20	60.0	1172.0
0000011	200/100/30R	200x100	30	R	50	15.36	768	1.60	80.0	1248.0
0000014	200/100/40R	200x100	40	R	50	10.56	528	2.10	105.0	1128.8
0000063	250/250/22JR	250x250	30	JR	16	23.44	375	3.70	59.2	1407.5
0001627	250/250/25JR	250x250	25	JR	16	22.50	360	4.40	70.4	1604.0
0000069	250/250/30R	250x250	30	R	16	18.75	300	5.00	80.0	1520.0
0000067	250/250/30JR	250x250	30	JR	16	18.75	300	5.30	84.8	1610.0
0000065	250/250/30 OTV M16	250x250	30	H	16	18.75	300	5.50	88.0	1340.0
0004872	250/125/22JR	250x125	22	JR	32	21.09	675	1.80	57.6	1235.0
0000056	250/125/30R	250x125	30	R	32	15.19	486	2.50	80.0	1235.0

(JR/R/H – designation of treatment on the back side of the tile, more on p. 43)

INDUSTRIAL PAVING





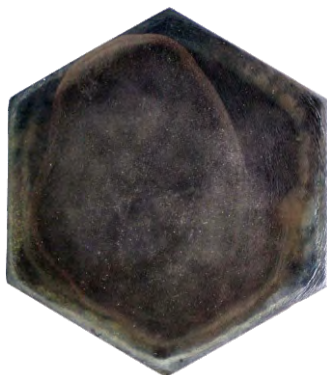
square/rectangular industrial tile

number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0011483	300/150/30R	300x150	30	R	23	17.74	408	3.60	82.8	1488.0
0000077	300/200/30R	300x200	30	R	17	18.80	320	4.80	81.6	1556.0
0002734	300/250/30R	300x250	30	R	14	18.57	260	6.00	84.0	1106.0
0010382	300/250/30JR	300x250	30	JR	14	18.57	260	6.30	88.2	1658.0
0001954	300/300/30R	300x300	30	R	12	16.00	192	7.20	86.4	1402.0
0010446	400/300/30JR	400x300	30	JR	9	17.77	160	10.10	90.9	1616.0
0010237	400/300/40JR	400x300	40	JR	9	13.33	120	13.50	121.5	1620.0

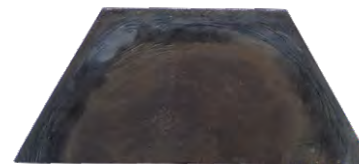
(R/JR – designation of treatment on the back side of the tile, more on p. 43)

INDUSTRIAL PAVING





1/2 A



1/2 B

hexagonal industrial tile

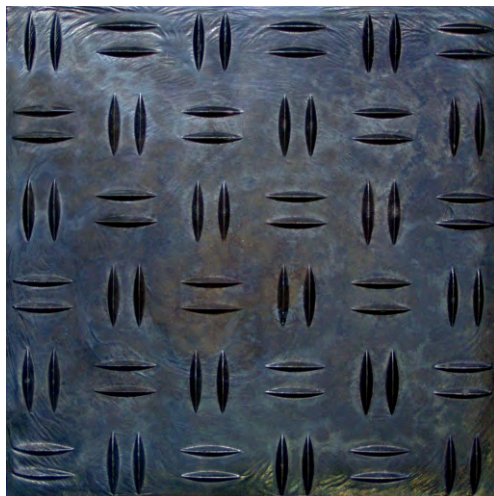
number	designation	incircle diameter	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0011483	6HR/25R	200	25	R	29	15.17	440	2.30	66.7	1032.0
0000123	6HR/30R	200	30	R	29	15.17	440	2.80	81.2	1252.0
0000144	1/26HR/30R - A	200	30	R	58	13.65	792	1.40	81.2	1128.8
0000145	1/26HR/30R - B	200	30	R	58	13.65	792	1.40	81.2	1128.5
0000119	6HR/250/30R	250	30	R	19	14.73	280	4.3	81.7	1224.0

(R – designation of treatment on the back side of the tile, more on p. 43)

INDUSTRIAL PAVING



ANTI-SLIP PAVING

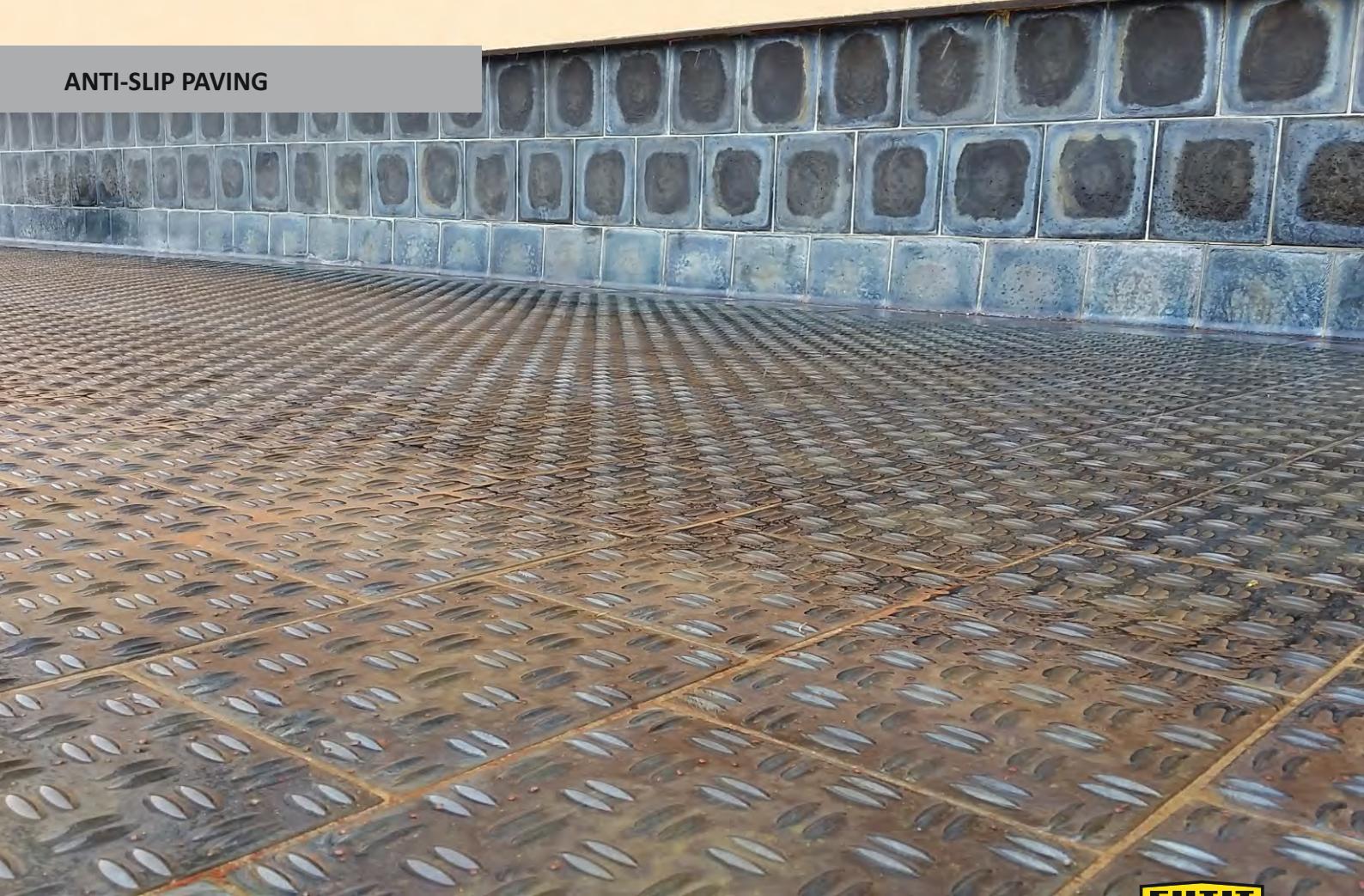


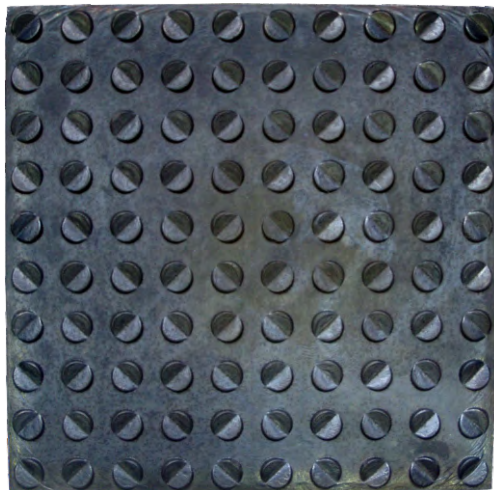
anti-slip tile type B
slip resistance of pattern B according to DIN 51130: group R 11

number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0015140	200/200/25JR - B	200x200	25	JR	25	22.08	552	2.50	62.5	1400.0
0013533	200/200/30JR - B	200x200	30	JR	25	19.20	480	3.00	75.0	1460.0
0013536	250/250/30JR - B	250x250	30	JR	16	18.75	300	4.80	76.8	1460.0

(JR – designation of grooves on the back side of the tile, more on p. 43)

ANTI-SLIP PAVING





anti-slip tile type C
slip resistance of pattern C according to DIN 51130: group R 11

number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0013534	200/200/30JR - C	200x200	30	JR	25	19.20	480	2.90	72.5	1412.0
0013537	250/250/30JR - C	250x250	30	JR	16	18.75	300	4.90	78.4	1490.0
0022264	400/300/30JR - C	400x300	30	JR	9	13.33	120	10.00	90.0	1220.0

(JR – designation of grooves on the back side of the tile, more on p. 43)

ANTI-SLIP PAVING



ANTI-SLIP PAVING



anti-slip tile type D
slip resistance of pattern D according to DIN 51130: group R 10

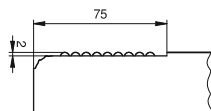
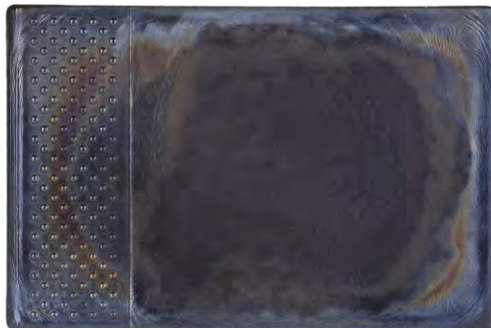
number	designation	a x b (mm)	thickness (mm)	grooving	tiles/m ²	m ² /pallet	tiles/pallet	kg/tile	kg/m ²	gross kg/pallet
0013535	200/200/30JR - D	200x200	30	JR	25	19.20	480	3.20	80.0	1556.0
0013538	250/250/30JR - D	250x250	30	JR	16	18.75	300	5.00	80.0	1520.0

(JR – designation of grooves on the back side of the tile, more on p. 43)

ANTI-SLIP PAVING



STAIR TILES



STAIR TILE
size 300x200x30 and 325x250x35

number	designation	a x b (mm)	thickness (mm)	grooving	pcs/linear m	pcs/pallet	kg/pc	kg/linear m	BTTO kg/pallet
0000106	Stair tile 300/200/30	300x200	30	JR	5	256	4,6	23,0	1197,6
0027414	Stair tile 325/250/35	325x250	35	JR	4	165	8,3	33,2	1389,5

(JR – designation of grooves on the back side of the tile, more on p. 43)

STAIR TILES



STAIR TILE
size 250x250 C

number	designation	a x b (mm)	thickness (mm)	grooving	pcs/linear m	pcs/pallet	kg/pc	kg/linear m	BTTO kg/pallet
0014843	Stair tile 250/250/30 C	250x250	30	JR	4	300	5,5	22,0	1670,0

(JR – designation of grooves on the back side of the tile, more on p. 43)

STAIR TILES

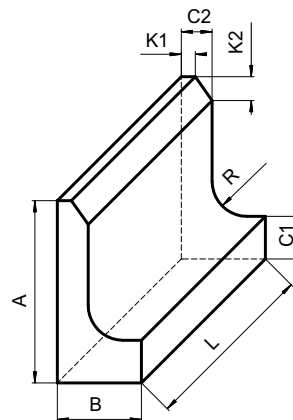
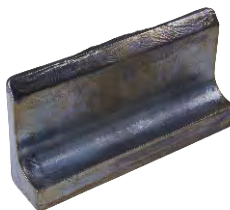
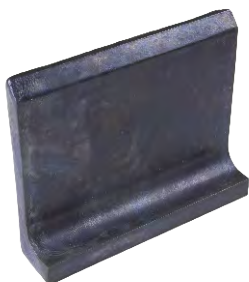


STAIR TILE
size 325x250

number	designation	a x b (mm)	thickness (mm)	grooving	pcs/linear m	pcs/pallet	kg/pc	kg/linear m	BTTO kg/pallet
0026998	Stair tile 325/250/35 C	325x250	35	JR	4	165	8,4	33,6	1406,0

(JR – designation of grooves on the back side of the tile, more on p. 43)

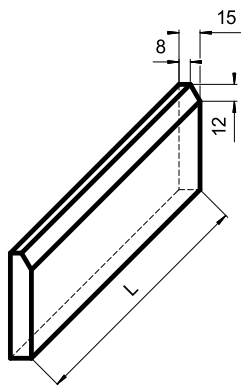
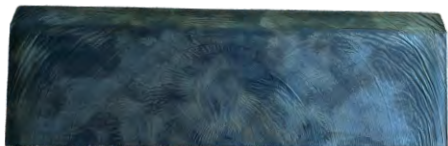
L-PIECES / BASE TILES



floor-wall transition tiles

number	designation	A	B	C1	C2	L	R	K1	K2	tiles/pallet	kg/tile	tiles/linear m	gross kg/pallet
0003993	104/60/22/200JR	104	60	22	22	200	25	10	17	528	1.8	5	970.40
0022817	104/60/30/200JR	104	60	30	22	200	25	10	15	528	2.0	5	1076.0
0000156	200/60/22/200JR	200	60	22	22	200	25	-	-	288	3.1	5	912.8
0025414	130/60/22/250JR	130	60	22	22	250	25	10	17	270	2.8	4	776.0
0002757	130/30/30/250JR	130	60	30	22	250	25	10	17	270	2.7	4	751.7
0000157	200/60/22/250JR	200	60	22	22	250	25	10	15	216	3.6	4	797.6
0000158	200/60/30/250JR	200	60	30	22	250	25	10	15	216	3.9	4	862.4
0005014	90/125/22/250JR	90	125	22	22	250	10	10	12	270	3.1	4	857.0

COVERED STRIPS



floor-wall transition tiles

number	designation	L	tiles/pallet	kg/tile	tiles/linear m	gross kg/pallet
0025587	200/80/22 řez	200	as needed	1.1	5	based on quantity
0025541	250/80/22 řez	250	as needed	1.3	4	based on quantity

Laying basalt tiles

Lay basalt tiles in the standard construction method. However, allow for a greater thickness of tile adhesive/mortar due to the **tolerance of ± 2 mm for basalt tile thickness**. Apply the adhesive with a notched trowel (recommended tooth height 10–12 mm). When laying, ensure that no voids are created under the tiles – the tiles must be bonded throughout. The temperature during laying (including the substrate) and grouting must not fall below $+5$ °C. The recommended temperature range is $+10$ ° to $+30$ °C.

Because of the thickness tolerance and because of the slight deflection, which is most pronounced in 22 mm thick tiles, we recommend that the tiles are laid with a continuous joint, not a staggered joint.

Clean the tiles of dust and dirt before laying. After cleaning and preparing the base structure, place the tiles in a mortar bed or bond with an adhesive like ceramic tiles.

Due to the virtually zero water absorption of our tiles and some other special features, we recommend using **adhesives and mortars from the EUFIX range** for bonding and grouting basalt tiles.

To improve the adhesion of the tiles, we enlarge the surface on the back side of the tiles either with fine grooving (JR) or rough grooving (R). This grooving is additionally covered with silica sand, which further increases the adhesion of the tiles to the substrate. Currently, JR tiles are more commonly used. Some tiles with complex shapes are not grooved on the back side. They are only covered with silica sand. Such tiles are indicated as H.



PAVING PROCESS

Grouting

The recommended joint width between the tiles is approximately 3–7 mm. ATTENTION – due to the special surface of basalt tiles, we recommend washing off the grout residue immediately after the joints have partially set. The hardened grout can be very difficult to remove from the tile surface.

Cutting basalt tiles

We recommend cutting basalt tiles on site with a diamond saw under intensive water cooling. Basalt is a very hard material (according to Mohs scale, its hardness is classified under point 8, while diamond is point 10), so it is necessary to **cut it with a diamond blade** designed for cutting hard materials (e.g. a blade designed for cutting granite). The cut must be intensively cooled with water. It must not heat up / melt / glow – simply supply a lot of water to the cut.

If requested, we can supply cut basalt tiles based on the customer's drawing or sketch. However, we do not recommend this option – if the intended joint width is not adhered to, these cut tiles will be unusable.

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