



WavePaveTM

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WavePaveTM

General

Product

The Wave Pave paving stone set, consisting of 15 individual stones, is produced in a single production mould. After laying, a wave-shaped joint line appears that is particularly distinct if the formations have different colours.

The individual stones have a shift protection on 4 sides, so that the formations are protected from relative movements.

Material

Concrete

Grid size

see sheet 5

Nominal sizes

see sheet 4

Weight

approx. 132 kg per formation (with a stone height of 80 mm)

Quantity required

approx. 1.39 formations per m² (including joint)

Commercial property rights

Patent registration in Germany 07.02.02 (no.: 102 05 160.7)

PCT registration for 82 countries

EU brand registration 15.05.02 (no.: 2 698 116)

Brand registration in the USA 10.06.02 (no.: 78/134,309)

Application

Public squares, promenades, pavements etc. up to construction class IV.

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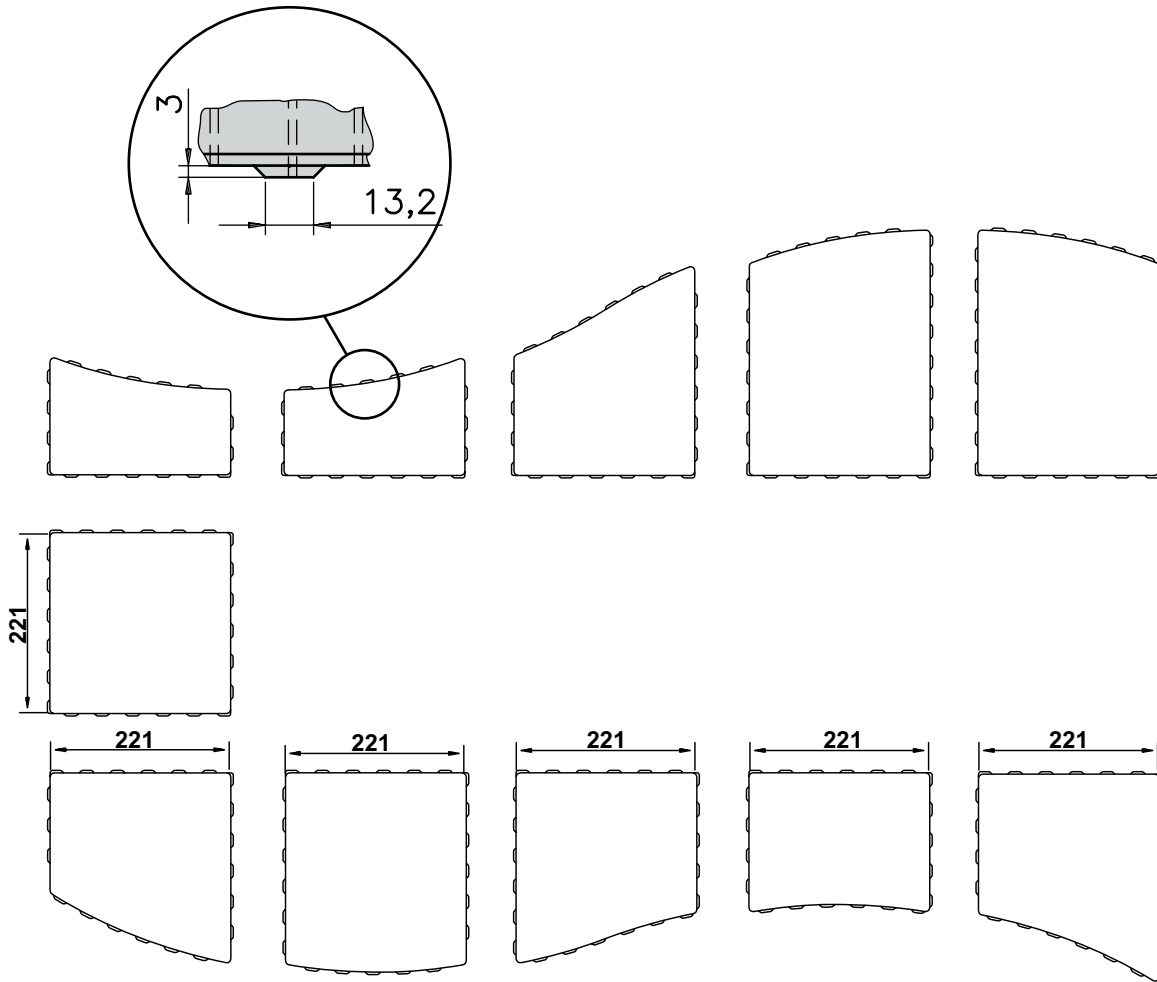


All dimensions in mm

WavePave™

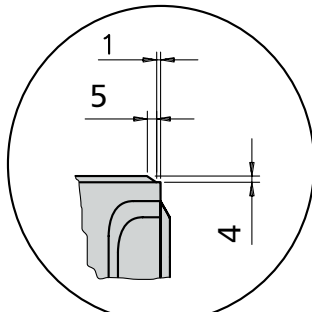
Individual stones

Nominal sizes



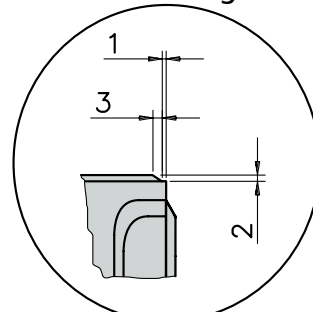
Sketch 3

Chamfer at the radii:



Sketch 4

Chamfer at the straight stone sides:



Sketch 5

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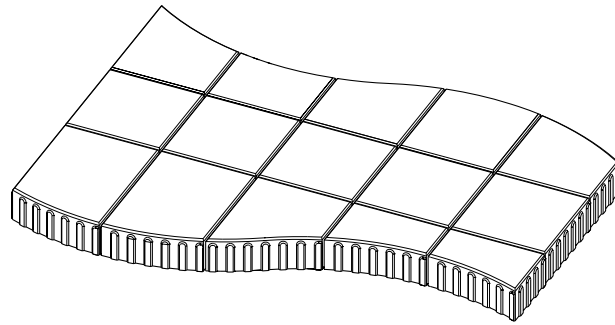
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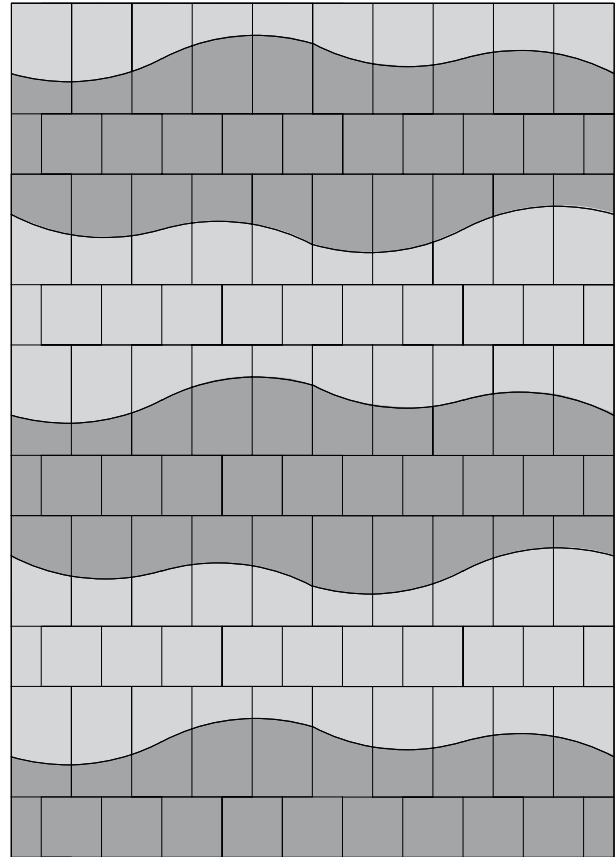
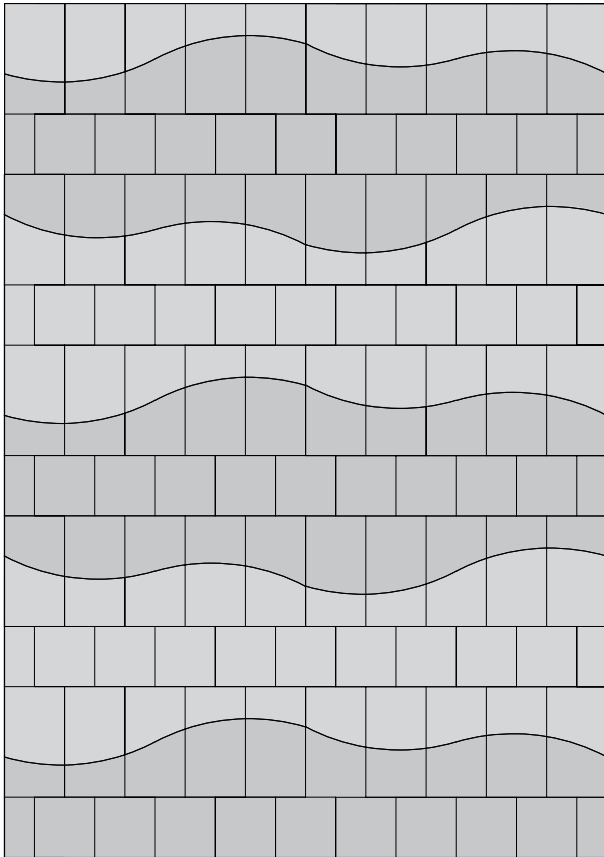
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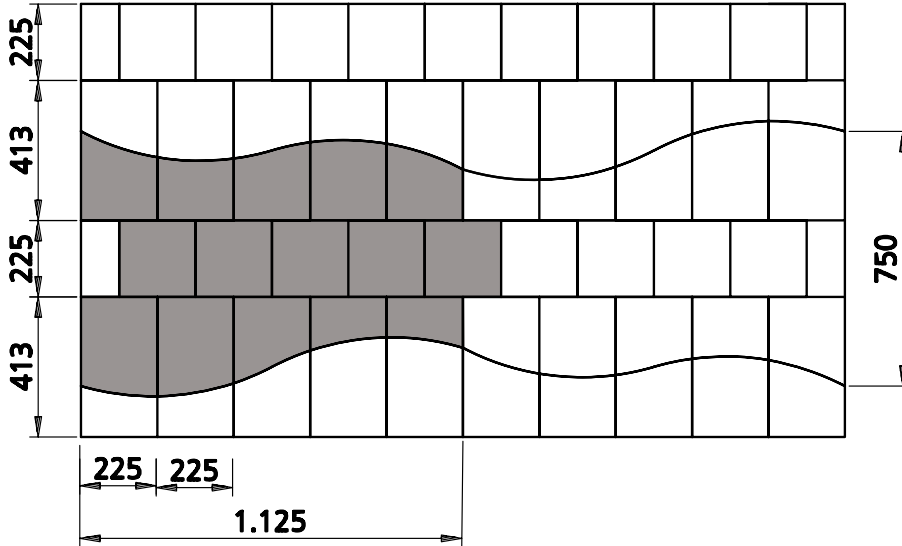


All dimensions in mm

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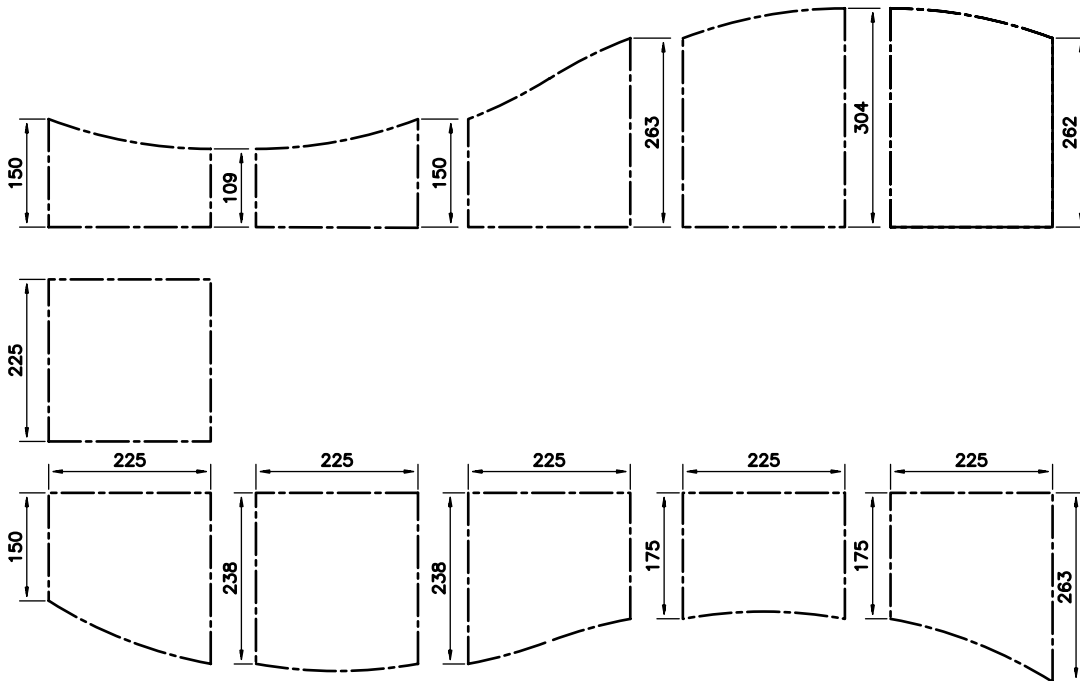
Grid

Grid sizes of the laid surface



Sketch 6

Grid size of the individual stones



Sketch 7

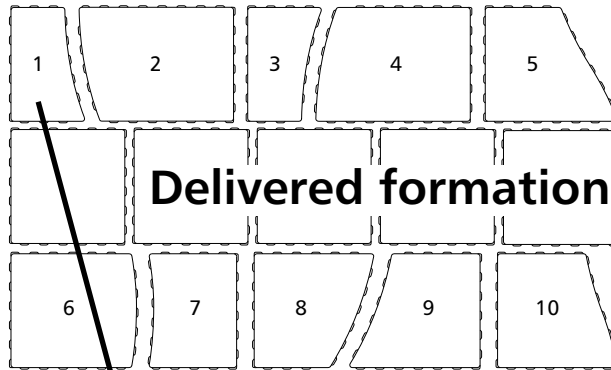
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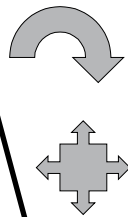
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Laying

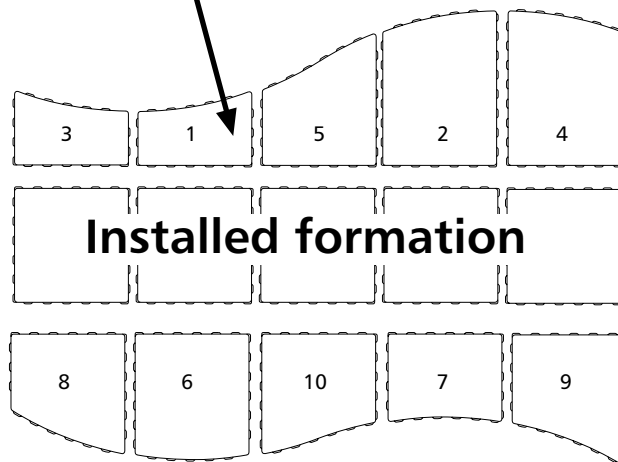
From the production formation to the installed formation



Delivered formation



The installed formation is created by turning and displacing the upper and lower stone rows



Installed formation

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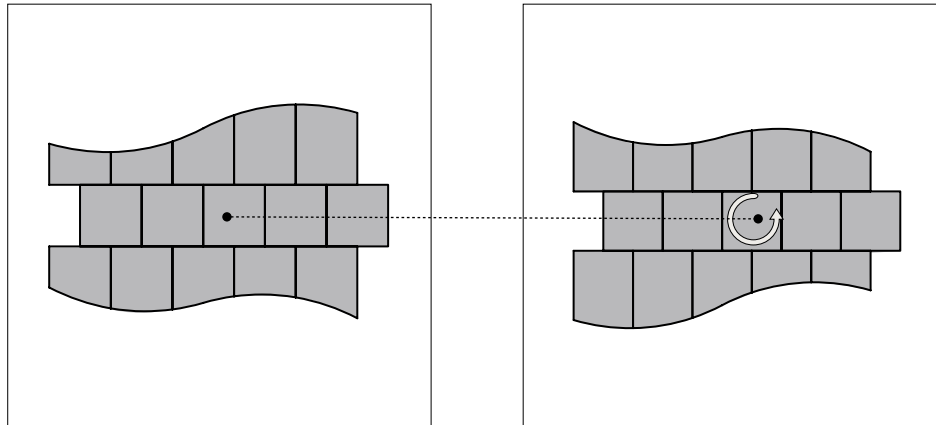


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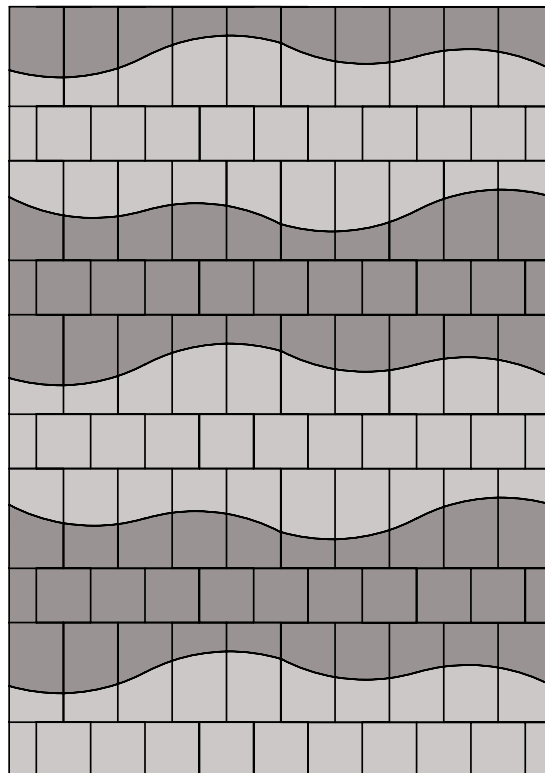
Turning of the formation

During laying, the individual formations are rotated through 180° against each other, so that the "long" or "short" front sides of the formations are always placed correctly.

In order to avoid cross joints, the stones of the central stone rows of the formations can be displaced by a half stone.



Sketch 9



Sketch 10

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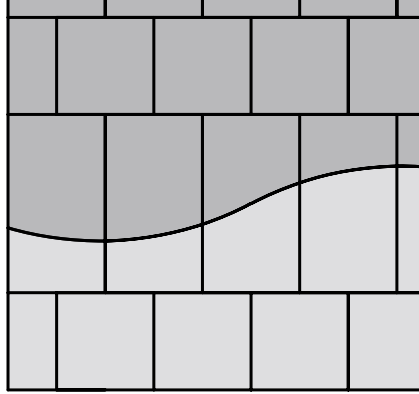
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The edge termination

In order to achieve a straight edge termination at the upper and lower boundary of a surface, the upper and lower row of stones of the formation are simply omitted.



Skizze 11

Chamfer

In order to highlight the wave character after laying, the individual stones have a greater chamfer in the area of the radii.

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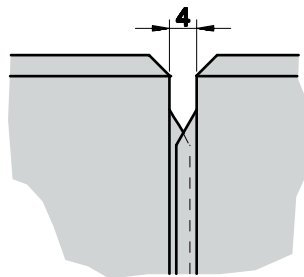
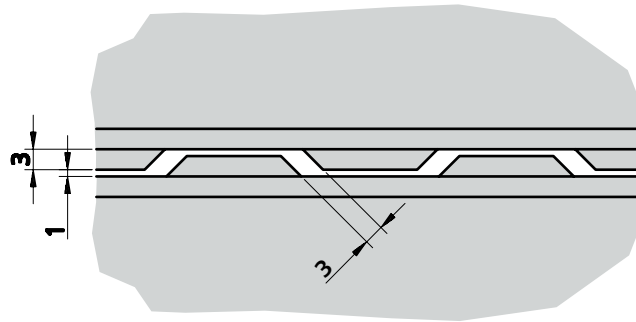
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Shift protection

Projections and recesses at the stone sides provide shift protection. The proportion of joint filling in the joint is approximately 38.5 %.



Sketch 12

The visible joint width is approximately 4 mm. The distance between the spacer and the adjacent stone should be approx. 1 mm. The joints in the Wave Pave product are filled with sand with a grain size of 0/2 mm. In order to ensure the filter function of the paving bed, the bed should be created using material with a grain size of 0/5 mm.

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Marketing

Marketing arguments

The unique design of the stones results in a "wave-like" joint line - without the need for cutting.

Different colours can create dynamic visual effects.

Straight edge termination at the start and end of the paved area without additional cutting of individual stones.

The 4 vertical stone sides are equipped with a shift protection for increased positional stability, which are placed in the joint area.

"Chamber joints" are created, providing increased resistance against emptying through suction and flushing out.

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Health and safety information

Information regarding health and safety

During laying of Wave Pave, the "Labour protection law" and the "Regulations about health and safety on building sites" must be complied with. This also includes the implementation of EC directive 90/269/EEC covering health and safety during manual handling of loads. An example for the 225 x 225 mm stone format of an "Assessment of load handling through key characteristics" according to the "Instructions for the assessment of the working conditions during lifting and carrying of loads, LV9, of the Federal Committee for occupational safety and safety technology" is shown below:

Time weighting	Regular repetition of short lifting and relocation actions	Output in m ²	Continuous carrying or holding
1	< 10 times per shift	up to 0.5 m ²	total duration < 30 min.
2	10 to < 40 times per shift	up to 2.0 m ²	total duration 30 min to < 1 h
4	40 to < 200 times per shift	up to 11 m ²	total duration 1 h to < 3 h
5	200 to < 500 times per shift	up to 25 m ²	total duration 3 to < 5 h
6	≥ 500 times per shift	over 25 m ²	total duration ≥ 5 h

Load weighting	Posture weighting	Exec. weighting	∑ 1 - 3	x time weighting	Points
2	4	0	6	6	36
2	4	0	6	5	30
2	4	0	6	4	24
2	4	0	6	2	12
2	4	0	6	1	6

Conclusions:

36 and 30 points:

Significantly increased strain, physical overstraining also possible for normally able persons. Remedial measures should be taken.

24 and 12 points:

Increased strain, overstraining is possible for less able persons. Remedial measures are advisable for this group of persons.

6 points:

Low strain, health risk through physical overloading is unlikely.

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