

DESIGN * MANUFACTURING * INSTALLATION
ABRASION RESISTANT CONVEYING AND MATERIALS HANDLING SYSTEMS
A subsidiary of The Greenbank Group, Inc.



Industrial Cast Basalt Tiles



GENERAL - INTRODUCTION

Basalt is one of the hardest natural materials known to man and is renowned worldwide for its longevity. Basalt as a neovolcanic rock is smelted in the gas furnace at a temperature of around 1280°C and then cast into metallic or sand moulds at a temperature of around 1200°C. Achieving uniform crystalline structure, the Basalt is annealed in a furnace for between 16 and 21 hours. With respect to Basalt's physical characteristics, it is ideally suited for Heavy Industry worldwide. Many customers in Europe, U.S.A, Canada, Mexico, India, Indonesia, South Korea, Australia use cast basalt products.

MAIN PHYSICAL CHARACTERISTICS

- High compression strength
- High abrasion resistance
- Chemical resistance
- Non-absorptivity
- Frost resistance
- Ecological and hygienic unexceptionability
- High durability

TECHNICAL DATA (MEAN VALUES)

Item	unit	value	DIN 28062
Mohs hardness	-	8	
Volume mass	kg.m ⁻³	2900 - 3000	2800 - 2900
Compressive strength	MPa	300 - 450	450 - 550
Abradability	cm ³ /50 cm ²	max. 5	4 - 6
Wear resistance	mm ³	110	
Absorptivity	% mass	0	0
Thermal conductivity	W.m ⁻¹ .K ⁻¹	1,9 - 2,2	1,0 - 1,2
Thermal shock resistance	°C	100	
Suphuric acid solubility	% mass	9	
Insulation resistant		10 ¹⁸	

Cast basalt is resistant to all organic solvents and acids, even alkaline solutions including inorganic solutions, with the exception of hydrofluoric acid.

APPLICATIONS

As an industrial flooring in metallurgical and steel works, rolling mills, heating plants, textile factories, car maintenance shops, warehouses, despatch bays, chemical and brewing industries, dairy works, bakeries, refrigerated stores, fishing industry, milking parlours, stables as well linings for technological equipment.

LAYING THE BASALT FLOOR TILES

Basalt tiles are layed on a thick cementation grout sufficient to compensate for the slight uneven thickness of the natural Basalt tile (±2 mm) and the uneven nature of the substrate floor or base concrete. On laying it is necessary to ensure no cavities are left under the tile. All joints must be even in width, in line and level. The mortar should be 1/3 of the tile thickness as maximum. With respect to the thermal expansivity of the cast basalt, we recommend that the joint width is twice that of a normal ceramic tile. Superfluous mortar or cement should be wiped off the tile surface before it dries.

MAINTENANCE

The basalt tiles surface is dust free. It is easy to keep clean by normal domestic and mechanical cleaning means. The same applies to anti-slip tiles where the anti slip pattern is designed for easy cleaning. The basalt flooring is strongly resistant to all chemical agents used for domestic and industrial cleaning.

DESIGNATION ACCORDING TO THE ANTISLIP RESISTANCE

Smooth surfaced tiles and JITKA tiles were tested for Antislip resistance in accordance with DIN 51130 and classed to category R 10.

Anti slip surfaced tiles of pattern RB and RC were tested for Antislip resistance in accordance with DIN 51130 and classed to category R 11.

1. Square tiles



Dimension	Weight	m ² /pallet	pcs/m ²
200/200/22 JR	2,60	16	25
200/200/30R	3,30	10 11,2	25
200/200/30JR	3,50	12,8	25
200/200/40R	4,30	10	25
200/200/50R	5,50		25
250/250/22JR	3,90	18,75	16
250/250/30JR	5,30	10 15	16
250/250/30R	5,40	10 13,1	16
250/250/40R	7,50		16
300/300/30H	7,70		12

2. Rectangle tiles - standard

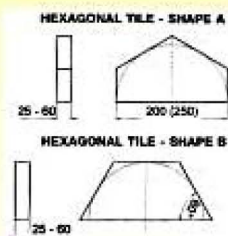


Dimension	Weight	m ² /pallet	pcs/m ²
200/100/22JR	1,35		50
200/100/30R	1,60	10	50
200/100/40R	2,30	10	50
250/100/30R	2,10		40
250/125/22JR	2,08		32
250/125/30R	2,50	10	32
250/125/40R	3,75		32

3. Hexagonal tiles



Dimension	Weight	m ² /pallet	pcs/m ²
HEX 200/25 R	2,40		29
HEX 200/30 R	2,80	10	29
HEX 200/35 R	3,30		29
HEX 200/40 R	3,70		29
HEX 200/60 R	5,70		29
HEX 250/30 R	4,30		19
HEX 1/2A-200/30 R	1,50	10	58
HEX 1/2B-200/30 R	1,50	10	58
HEX 1/2A-200/40 R	1,90		58
HEX 1/2B-200/40 R	1,80		58



4. Antislip tiles - B, C, D, JITKA



Dimension	Weight	m ² /pallet	pcs/m ²
200/200/30 R	3,00	10	25
250/250/30 R	4,80	10	16
**197/197/25 R	2,60	14,4	25

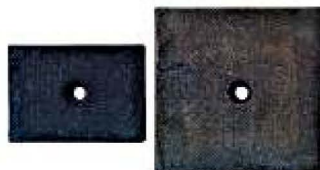


5. Skirting shaped tiles



Dimension	Weight	m ² /pallet	pcs/run.m
200/60/22/200 JR	3,10	240	5
200/60/22/250 JR	3,60	180	4
200/60/30/250 JR	3,90	180	4
200/60/22/250 JR	3,80	180	4
130/60/30/250 JR	2,80	270	4

1. Countersunk square and rectangle tiles



Dimension	Bolt	Weight	m ² /pallet	pcs/m ²
200/200/30	M 16	3,30		25
200/100/30	M 12	1,80		50
250/250/30	M 16	5,40		16
250/125/30	M 16	2,70		32

2. Special rectangle tiles



Dimension	Weight	m ² /pallet	pcs/m ²
200/70/30 R	1,20		72
200/80/30 R	1,40		63
200/90/30 R	1,50		56
200/120/30 R	2,00		42
200/125/30 R	2,10		40
200/140/30 R	2,50		36
200/150/30 R	2,50		34
200/150/40 R	3,60		34
200/155/30 R	2,60		33
200/160/30 R	2,85		32
200/170/30 R	2,80		30
200/170/40 R	4,10		30
200/230/30 R	4,15		22
250/150/30 R	2,80		27
250/200/30 R	4,20		20
250/200/40 R	6,00		20
300/150/30 H	4,05		23
300/200/30 R	4,90		17
300/250/30 H	6,75		14
350/200/30 H	6,25		15



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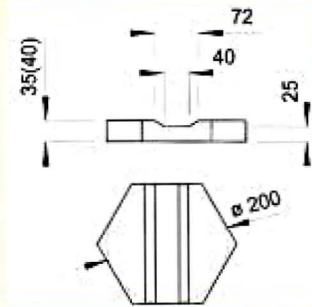
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3. Hexagonal sprue grooved tiles



4. Special tiles according to customer's sketch



casting or cutting manufactured
according to an ordered quantity

5. Basalt bricks



Dimension	Weight	m ² /pallet	pcs/m ²
200/100/50 R	2,90	500	50
200/100/60 R	3,40	400	50
200/100/75 H	4,30	250	50
250/125/65 H	6,10	200	32

6. Shaped products - „L“



Dimension A/B/C/D	Weight	m ² /pallet	pcs/m ²
100/150/30/200 R	3,95		
110/130/30/200 R	3,80		
150/95/30/200 R	3,85		
150/100/30/200 R	3,95		
200/100/30/200 R	4,90		
200/115/30/200 R	5,10		
200/125/30/200 R	5,35		
200/150/30/200 R	5,70		
227/95/30/200 R	5,15		

According to customer's
request

Basalt tiles are packed on the wooden pallets 800 x 1000 mm
and Europallets 800 x 1200 mm or in accordance with customers' requirements.

LEGEND:

- JRI - reverse side fine ribbing (interior tiles)
- JR - reverse side fine ribbing
- R - reverse side standard ribbing

