

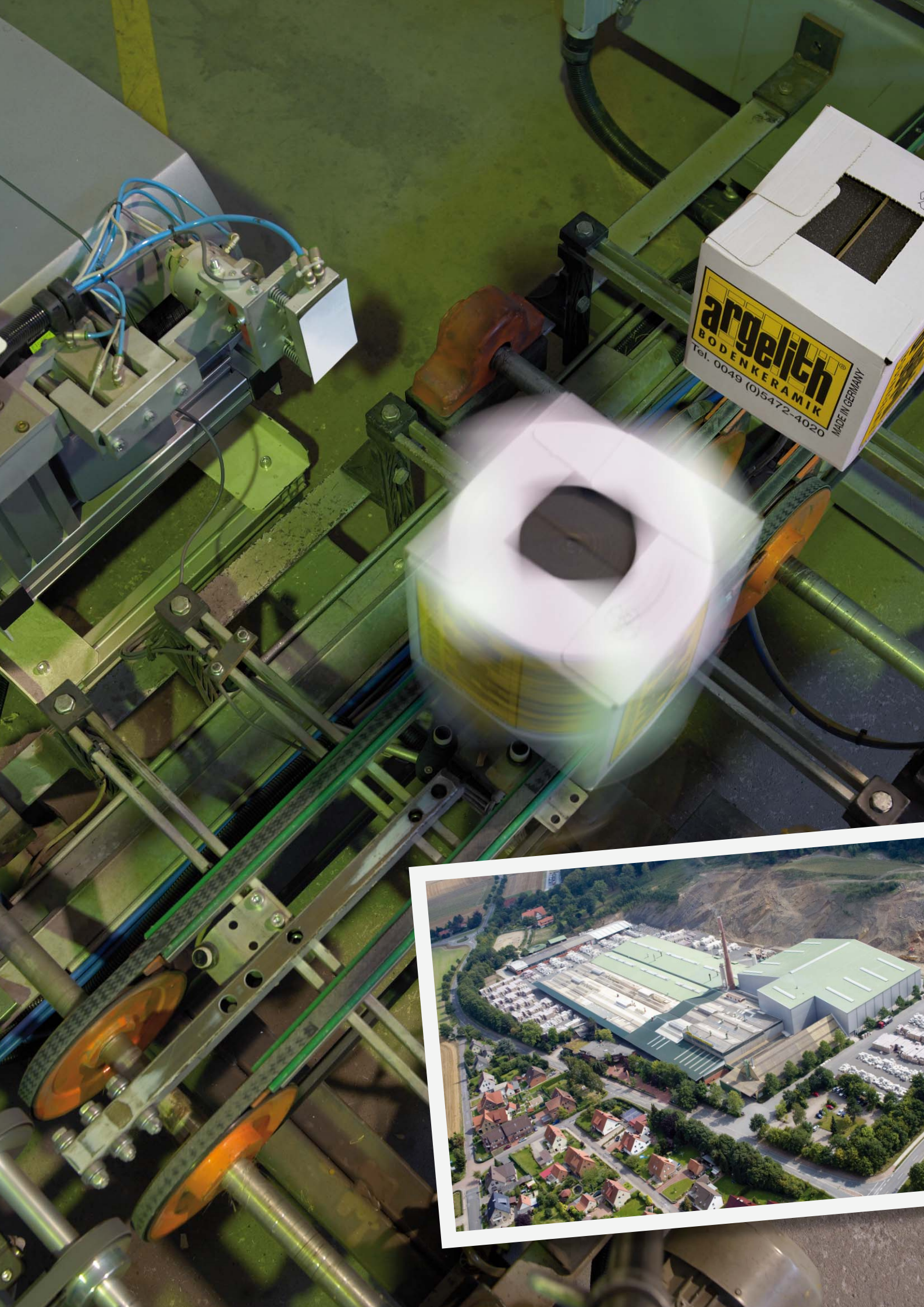


Product Range

STONEWARE **mvtec**
dekortec

CLINKER TILES





argelith
BODENKERAMIK
Tel. 0049 (0)5472-4020
MADE IN GERMANY



STONEWARE

04 / 05

STONEWARE – Colours and Surfaces

06 / 07

STONEWARE – Fine grained

08 / 09

STONEWARE – Fine grained

10 / 11

STONEWARE – Coarse grained / Dekortec

12 / 13

STONEWARE – Accessory tiles

14 / 15

CLINKER TILES

16 / 17

CLINKER TILES – Colours and Surfaces

18 / 19

CLINKER TILES – Accessory tiles

20 / 21

TECHNICAL INFORMATION

22 / 23

KERASIG / ARGENOL

24 / 25

SLIP RESISTANCE – BGR 181

26 - 29

PRODUCT FEATURES

30 / 31

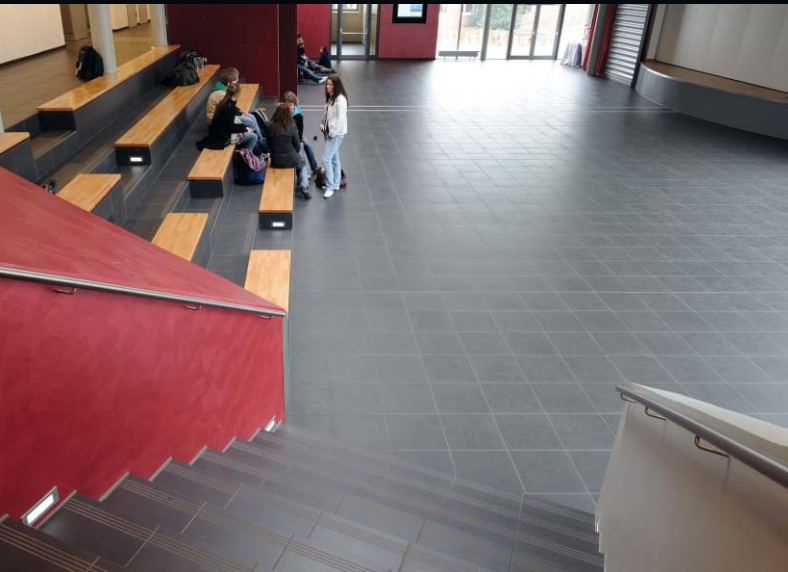


Quality is our priority – We will happily provide test certificates for your desired product.



Stoneware manufactured by Argelith conforms to CE regulations.








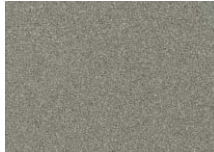






STONEWARE

mvtec®

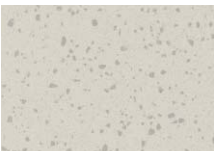



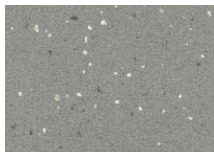


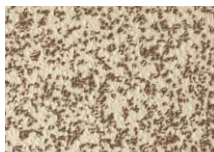


COLOURS and COLOURCODES

FINE GRAINED

		
Light grey 200	Dark grey 210	Titanium grey 220
		
Anthracite 230	Beige 300	Arkona white 310
		
Sand yellow 400	Cream yellow 410	

COARSE GRAINED

		
Cora 600	Inga 602	Gitta 610
		
Tina 611	Freia 612	Tessa 613
		
Atlanta 250	Grey porphyr 251	

DEKORTEC

		
Galaxyit 730	Sandstorm 751	Jade green 760

SURFACES

Smooth
R 9/R 10/R 11

Security
R 12

Nopped profile
R 12/V 04
R 12/V 06

Star profile
R 13/V 08



		Thick-ness	Smooth	Security	Nopped profile
Square 198 x 198	Arkona white	15	R 9/R 10/R 11	R 12	R 12 / V 06
		18	R 9/R 10/R 11		
	Beige	15	R 9/R 10/R 11	R 12	R 12 / V 06
		18	R 9/R 10/R 11		
	Light grey	15	R 9/R 10/R 11	R 12	R 12 / V 06
		18	R 9/R 10/R 11		
	Dark grey	15	R 9/R 10/R 11	R 12	R 12 / V 06
		18	R 9/R 10/R 11		
	Titanium grey	15	R 9/R 10/R 11	R 12	R 12 / V 06
		18	R 9/R 10/R 11		
	Cream yellow	15	R 9/R 10/R 11	R 12	R 12 / V 06
		18	R 9/R 10/R 11		
	Anthracite	15	R 9/R 10/R 11	R 12	R 12 / V 06
		18	R 9/R 10/R 11	R 12	R 12 / V 06
Square 298 x 298	Arkona white	12	R 9/R 10/R 11		
		15	R 9/R 10/R 11		
	Beige	12	R 9/R 10/R 11		
		15	R 9/R 10/R 11		
	Light grey	12	R 9/R 10/R 11		
		15	R 9/R 10/R 11		
	Dark grey	12	R 9/R 10/R 11		
		15	R 9/R 10/R 11		
	Titanium grey	12	R 9/R 10/R 11		
		15	R 9/R 10/R 11		
	Anthracite	12	R 9/R 10/R 11		
		15	R 9/R 10/R 11		



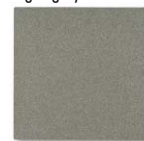
Arkona white



Beige



Light grey



Dark grey



Titanium grey



Anthracite



Cream yellow

Additional colours/formats available upon request.

Material requirements table	Format	Thick-ness	Material requirements*	Contents Pieces/Package	Contents sqm/Pallet	Weight in	
			including joints Pieces per sqm			kg/sqm	kg/Pallet
	198 x 198	15	25	13	31,20	35	1.092
		18	25	11	26,40	41	1.083
	298 x 298	12	11	11	40,00	27	1.080
		15	11	9	32,73	35	1.145

*Requirement with normal grouting. With a "groutless" installation (Vibration) the requirement will increase slightly.

		Thickness	Smooth	Security	Nopped profile	Star profile	
CLASSIC SERIES	Rectangular 198 x 98	Arkona white	15	R 10/R 11	R 12	R 12 / V 04	
			18	R 10/R 11	R 12	R 12 / V 04	
		Beige	15	R 10/R 11	R 12	R 12 / V 04	R 13 / V 08
			18	R 10/R 11	R 12	R 12 / V 04	
		Light grey	15	R 10/R 11	R 12	R 12 / V 04	R 13 / V 08
			18	R 10/R 11	R 12	R 12 / V 04	
		Dark grey	15	R 10/R 11	R 12	R 12 / V 04	
			18	R 10/R 11	R 12	R 12 / V 04	
		Titanium grey	15	R 10/R 11	R 12	R 12 / V 04	
			18	R 10/R 11	R 12	R 12 / V 04	
		Cream yellow	15	R 10/R 11	R 12	R 12 / V 04	
			18	R 10/R 11	R 12	R 12 / V 04	
		Sand yellow	15	R 10/R 11	R 12	R 12 / V 04	
			18	R 10/R 11	R 12	R 12 / V 04	
	Anthracite	15	R 10/R 11	R 12	R 12 / V 04		
		18	R 10/R 11	R 12	R 12 / V 04		
	Rectangular *240 x 115	Sand yellow	15	R 10/R 11			
			18	R 10/R 11			



Arkona white



Beige



Light grey



Dark grey



Titanium grey



Anthracite



Cream yellow



Sand yellow

FINE GRAINED

Additional colours/formats available upon request.

*Limited special order availability in other colours.

In principle all formats can be installed with conventional (thin set, et al) installation methods.

Material requirements table	Format	Thickness	Material requirements*	Contents Pieces/Package	Contents qm/Pallet	Weight in	
			including joints Pieces per sqm			kg/sqm	kg/Pallet
	198 x 98	15	50	26	31,20	35	1.092
		18	50	22	26,40	41	1.083
	240 x 115	15	33	26	35,45	35	1.241
		18	33	22	30,00	41	1.230

*Requirement with normal grouting. With a "groutless" installation (Vibration) the requirement will increase slightly.

		Thickness	Smooth	Security	Nopped profile
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">HEXALITH SERIES®</p> <p style="text-align: center;">Hexagonal 108 x 125</p>	Arkona white	15	R 10/R 11		
		18	R 10/R 11	R 12	R 12 / V 04
	Beige	15	R 10/R 11		
		18	R 10/R 11	R 12	R 12 / V 04
	Light grey	15	R 10/R 11		
		18	R 10/R 11	R 12	R 12 / V 04
	Dark grey	15	R 10/R 11		
		18	R 10/R 11		
	Cream yellow	15	R 10/R 11		
		18	R 10/R 11	R 12	R 12 / V 04
	Sand yellow	15	R 10/R 11		
		18	R 10/R 11	R 12	R 12 / V 04
	*Grey porphy	15	R 10/R 11		
		18	R 10/R 11	R 12	R 12 / V 04
	*Atlanta	15	R 10/R 11		
		18	R 10/R 11	R 12	R 12 / V 04

Additional colours/formats available upon request.

* Additional formats (10x20, 20x20, 15x15) upon request.



Arkona white



Beige



Light grey



Dark grey



Cream yellow



Sand yellow



Grey porphy



Atlanta



blunt finishing tile



point finishing tile

All Hexagonal tile can also be delivered with pre-cut pointed and blunt finishing tiles.

Material requirements table	Format	Thickness	Material requirements*	Contents Pieces/ Package	Contents sqm/ Pallet	Weight in	
			including joints Pieces per sqm			kg/ sqm	kg/ Pallet
	108 x 125	15	97,5	48	26,58	35,20	970
		18	96,5	40	22,38	41,30	959

*Requirement with normal grouting. With a "groutless" installation (Vibration) the requirement will increase slightly.

CLASSIC SERIES	Rectangular 398 x 198	Thickness		Smooth
		Arkona white	15 / 12	R 9
		Light grey	15 / 12	R 9
		Dark grey	15 / 12	R 9
		Titanium grey	15 / 12	R 9
		Anthracite	15 / 12	R 9

Additional colours/formats available upon request.

THE NEW FORMAT
40 x 20



Arkona white



Light grey



Dark grey



Titanium grey



Anthracite

FINE GRAINED

Material requirements table	Format	Thickness	Material requirements*	Contents Pieces/Package	Contents sqm/Pallet	Weight in	
			including joints Pieces per sqm			kg/sqm	kg/Pallet
	398 x 198	15	12,5	9	34,56	35	1.209
		12	12,5	11	42,24	27	1.140

*Requirement with normal grouting. With a "groutless" installation (Vibration) the requirement will increase slightly.

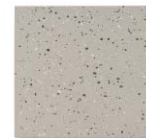
Additional colours/formats available upon request.

			Thickness	Smooth	Nopped profile
COARSE GRAINED	Rectangular 198 x 98	Tina	15	R 11	
		Tessa	15	R 11	R 12 / V 04
	Square 198 x 198	Cora	15	R 9/R 10	
		Gitta	15	R 9/R 10	
		Freia	15	R 9/R 10	
		Inga	15	R 9/R 10	
	Square 298 x 298	Cora	12	R 9/R 10	
			15	R 9/R 10	
		Gitta	12	R 9/R 10	
			15	R 9/R 10	
		Freia	12	R 9/R 10	
			15	R 9/R 10	
		Inga	12	R 9/R 10	
			15	R 9/R 10	

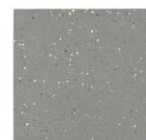
Additional colours/formats available upon request.



Cora



Gitta



Freia



Tina



Tessa



Inga

Material requirements table	Format	Thickness	Material requirements* including joints Pieces per sqm	Contents Pieces/ Package	Contents sqm/ Pallet	Weight in	
						kg/ sqm	kg/ Pallet
	198 x 98	15	50	26	31,20	35	1.092
	198 x 198	15	25	13	31,20	35	1.092
		18	25	11	26,40	41	1.082
	298 x 298	12	11	11	40,00	27	1.070
		15	11	9	32,73	35	1.145

*Requirement with normal grouting. With a "groutless" installation (Vibration) the requirement will increase slightly.

		Thickness	Slip Resistance
398 x 198	Galaxyit	12 / 15	R 10
	Sandstorm	12 / 14	R 10
298 x 298	Jade green	12 / 14	R 10

Additional colours/formats available upon request.



Galaxyit



Sandstorm



Jade green



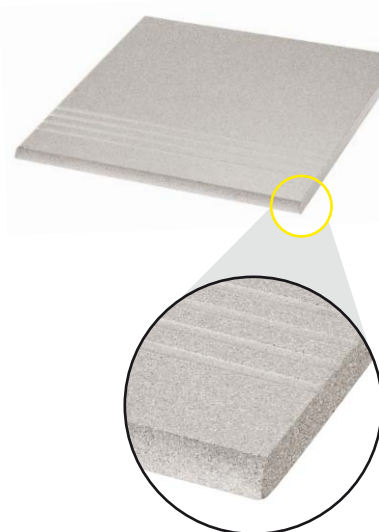
Material requirements table	Format	Thickness	Material requirements* including joints Pieces per sqm	Contents Pieces/ Package	Contents sqm/ Pallet	Weight in	
						kg/ sqm	kg/ Pallet
	398 x 198	12	12,5	11	42,24	27	1.141
		15	12,5	9	34,56	35	1.209
	298 x 298	12	11	11	40,00	27	1.080
		14	11	10	36,36	32	1.163

*Requirement with normal grouting. With a "groutless" installation (Vibration) the requirement will increase slightly.

		Thickness	Slip Resistance	Material requirements including joints	Contents	Contents	Weight in	
				Pieces/linear m	Pieces/Package	linear m/ Pallet	kg/ linear m	kg/ Pallet
298 x 198	Light grey	15	R 9/R 11	5	10	72,00	10	720
	Beige	15	R 9	5	10	72,00	10	720
	Dark grey	15	R 9	5	10	72,00	10	720
	Galaxyit	15	R 9	5	10	72,00	10	720
298 x 298	Light grey	12	R 9 **	3,33	11	132,13	8,5	1.023
	Beige	12	R 9 **	3,33	11	132,13	8,5	1.023
	Dark grey	12	R 9 **	3,33	11	132,13	8,5	1.023
	Anthracite	12	R 9 **	3,33	11	132,13	8,5	1.023

** More surfaces available upon request / Stair tread tile in coarse grain upon request.

		Thickness	Material requirements including joints Pieces/linear m	Contents Pieces/Package	Contents linear m/ Pallet	Weight in		
						kg/ linear m	kg/ Pallet	
Bullnose	298 x 72 rounded	Light grey	12	3,33	28	538,14	1,90	1.022
		Beige	12	3,33	28	538,14	1,90	1.022
		Dark grey	12	3,33	28	538,14	1,90	1.022
		Anthracite	12	3,33	28	538,14	1,90	1.022
		Cora	12	3,33	28	538,14	1,90	1.022
		Gitta	12	3,33	28	538,14	1,90	1.022
		Freia	12	3,33	28	538,14	1,90	1.022
		Hera	12	3,33	28	538,14	1,90	1.022
		Inga	12	3,33	28	538,14	1,90	1.022
		Tessa	12	3,33	28	538,14	1,90	1.022
		Sandstorm	12	3,33	28	538,14	1,90	1.022
		Jade green	12	3,33	28	538,14	1,90	1.022
		398 x 72	Light grey	12	2,50	16	378	2,20
Anthracite	12		2,50	16	378	2,20	832	
Galaxyit	12		2,50	16	378	2,20	832	



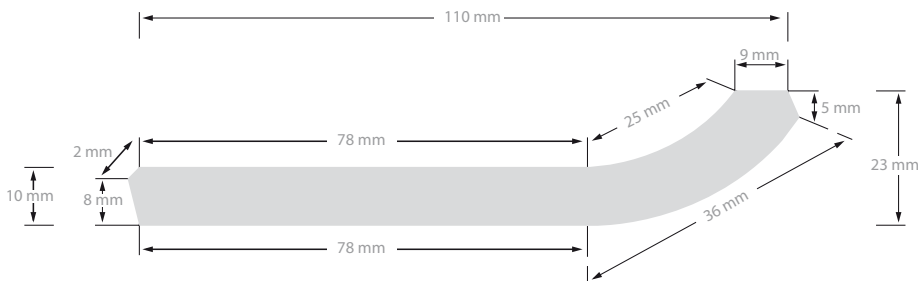
		Thickness	Material requirements including joints Pieces/linear m	Contents Pieces/Package	Contents linear m/ Pallet	Weight in	
						kg/ linear m	kg/ Pallet
198 x 98	Light grey	8	5	36	496,80	1,80	894
	Beige	8	5	36	496,80	1,80	894

More colours available upon request.

Coved base skirting

194 x 110	Material requirements including joints	Thickness	Material requirements including joints Pieces/linear m	Contents Pieces/Package	Contents linear m/Pallet	Weight in	
						kg/linear m	kg/Pallet
Light grey		10	5	22	330	2,56	844,8
Arkona white		10	5	22	330	2,56	844,8
Beige		10	5	22	330	2,56	844,8
Dark grey		10	5	22	330	2,56	844,8
Titanium grey		10	5	22	330	2,56	844,8
Cream yellow		10	5	22	330	2,56	844,8
Sand yellow		10	5	22	330	2,56	844,8
Anthracite		10	5	22	330	2,56	844,8
Freia		10	5	22	330	2,56	844,8
Grey porphy		10	5	22	330	2,56	844,8
Atlanta		10	5	22	330	2,56	844,8

More colours/formats available upon request.



Coved base skirting

Internal corners/
External corners

Dimensional variation from these average values through normal manufacturing variables possible.

Light grey
Beige
Dark grey
Titanium grey
Cream yellow
Sand yellow
Freia
Grey porphy
Atlanta

Material requirements: Pieces



Internal corner

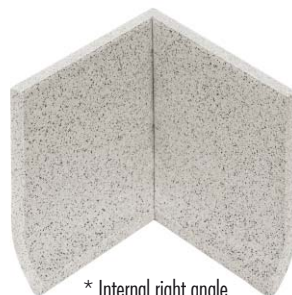


External corner

Internal right angle covered based skirting /
External right angle covered based skirting

Arkona white
Light grey
Beige
Dark grey
Titanium grey
Cream yellow
Sand yellow
Anthracite
Freia
Grey porphy
Atlanta

Material requirements: Pair

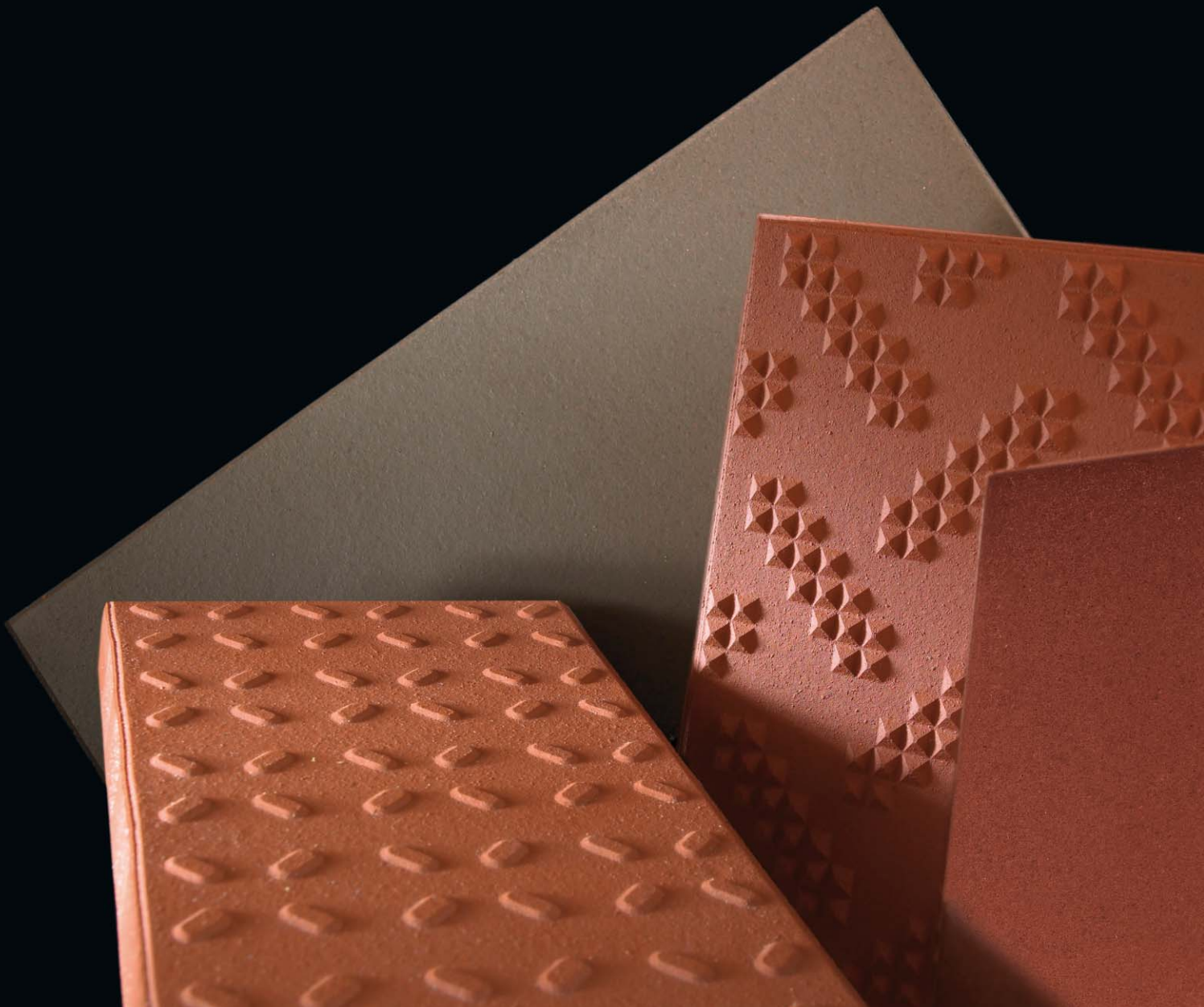


* Internal right angle covered based skirting



* also available as sit-on skirting.

* External right angle covered based skirting



CLINKER TILES



		Thickness	Smooth	Security	Nopped profile
Rectangular 198 x 98	Brick red	16	R 10/R 11	R 12	R 12 / V 06
		20	R 10/R 11	R 12	R 12 / V 06
	Blue-red flamed	16	R 10		
		20	R 10		
Rectangular 240 x 115	Brick red	16	R 10/R 11		
		20	R 10/R 11	R 12	R 12 / V 06
		25	R 10		
	Blue-red flamed	16	R 10		
		20	R 10		
Sharp edged	Brick red	30	R 10		

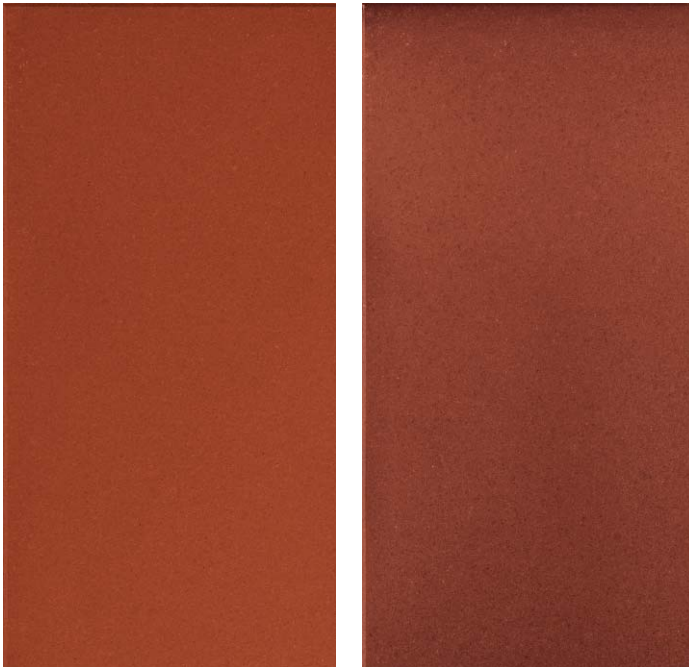
Material requirements table	Format	Thickness	Material requirements*	Contents Pieces/ Package	Contents sqm/ Pallet	Weight in	
			including joints Pieces per sqm			kg/ sqm	kg/ Pallet
	198 x 98	16	50	16	35,84	36,5	1.308
		20	50	13	29,12	47,5	1.383
	240 x 115	16	33	16	34,91	36,5	1.274
		20	33	13	28,36	46	1.305
		25	33	11	24,00	56	1.344
	Sharp edged	30	33	9	19,64	65	1.277

*Requirement with normal grouting. With a "groutless" installation (Vibration) the requirement will increase slightly.

Smooth
R 10 - R 11

Security
R 12

COLOURS



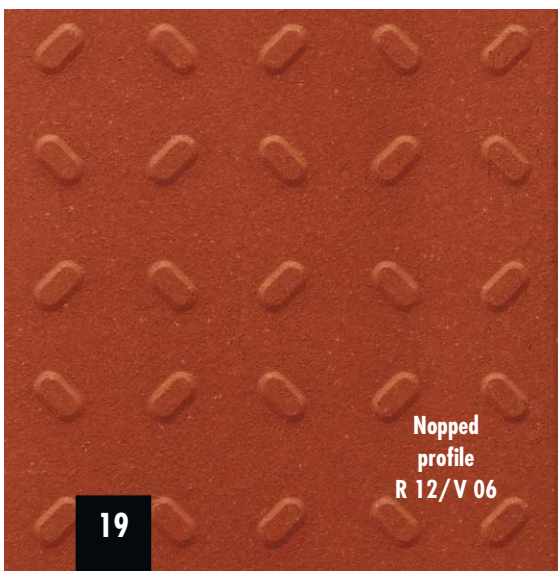
Brick red

Blue-red flamed

Colour aberration from original product may be caused by printing.



SURFACES



Nopped
profile
R 12/V 06

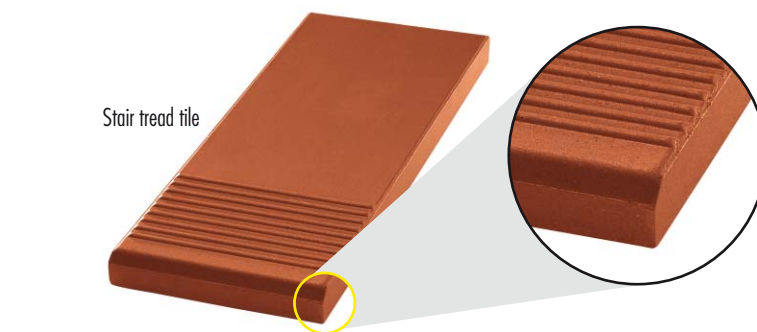
Window sill tile with drip nose

		Thickness		Material	Contents	Contents	Weight in	
				requirements including joints	Pieces/ Package	linear m/ Pallet	kg/ linear m	kg/ Pallet
				Pieces/linear m				
198 x 98	Brick red	20		10	13	145,60	10,00	1.456
	Blue-red flamed	20		10	13	145,60	10,00	1.456
240 x 115	Brick red	20		8	13	117,00	11,00	1.278
	Blue-red flamed	20		8	13	117,00	11,00	1.278



Wall top covering rounded both sides with drip nose

		Thickness		Material	Contents	Contents	Weight in	
				requirements including joints	Pieces/ Package	linear m/ Pallet	kg/ linear m	kg/ Pallet
				Pieces/linear m				
300 x 115	Brick red	20		8	10	97,50	14,00	1.365
	Blue-red flamed	20		8	10	97,50	14,00	1.365



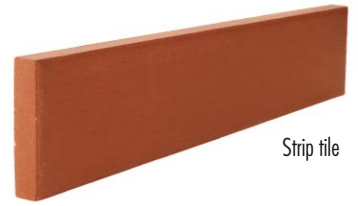
Stair tread tile with drip nose

		Thickness		Material	Contents	Contents	Weight in	
				requirements including joints	Pieces/ Package	linear m/ Pallet	kg/ linear m	kg/ Pallet
				Pieces/linear m				
300 x 98	Brick red	20		10	10	91,00	15,00	1.365
	Blue-red flamed	20		10	10	91,00	15,00	1.365
300 x 115	Brick red	20		8	10	97,50	14,00	1.365
	Blue-red flamed	20		8	10	97,50	14,00	1.365

Strip tile

		Thickness	Material requirements including joints	Contents	Contents	Weight in	
			Pieces/linear m	Pieces/Package	linear m/ Pallet	kg/ linear m	kg/ Pallet
240 x 52	Brick red	12	4	22	858,00	1,60	1.372
	Blue-red flamed	12	4	22	858,00	1,60	1.372

Only in Special choice



Strip tile

Bullnose

		Thickness	Material requirements including joints	Contents	Contents	Weight in	
			Pieces/linear m	Pieces/Package	linear m/ Pallet	kg/ linear m	kg/ Pallet
240 x 115	Brick red	16	4	16	288,00	4,40	1.267

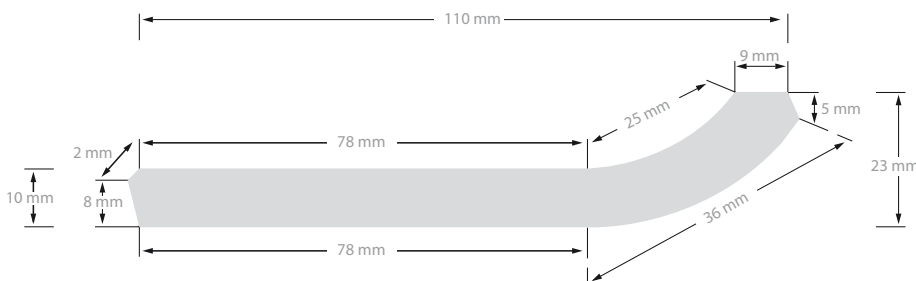
Only in Special choice



Bullnose

Coved base skirting

		Thickness	Material requirements including joints	Contents	Contents	Weight in	
			Pieces/linear m	Pieces/Package	linear m/ Pallet	kg/ linear m	kg/ Pallet
240 x 110	Brick red	10	4	14	224,00	3,00	672



Dimensional variation from these average values through normal manufacturing variables possible.



Coved base skirting

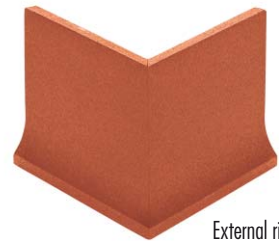
Internal right angled coved base skirting / External right angled coved base skirting

Brick red

Material requirements: Pair



Internal right angle coved based skirting



External right angle coved based skirting

Internal corners / External corners

Brick red

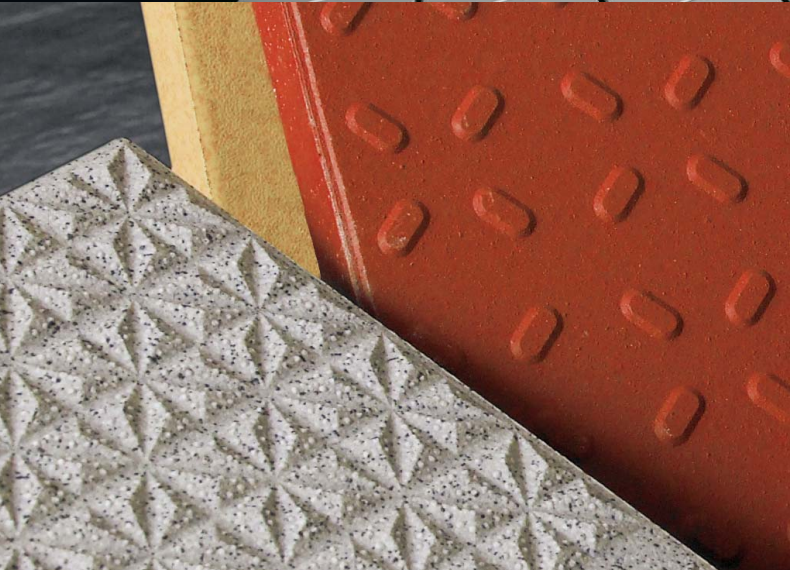
Material requirements: Pieces



External corners



Internal corners





TECHNICAL INFORMATION





mvtec

Microverdichtende Technologie

Alle Feinsteinzeugfliesen von Argelith tragen das mv-tec Gütesiegel für feinste Qualität.

dekortec



Possible installation width patterns



CE

Stoneware manufactured by Argelith conforms to CE regulations.



Material requirements table

Format

Thickness

Material requirements whole tiles linear m

Material requirements half tiles linear m

Format	Thickness	Material requirements whole tiles linear m	Material requirements half tiles linear m
10,5 cm	15 / 18		10
21,0 cm	15 / 18	6	10
31,0 cm	15 / 18	11	10



CARE AND CLEANING

Package size	10 litre	20 litre
Cement haze remover	●	●
Intensive cleaner*	●	●
Clinker oil (only for use with Clinker tiles)	●	●



* Ideally suited for Clinker and Fully Vitrified Porcelain Tiles.

GENERAL CARE INSTRUCTIONS

Clinker and fully vitrified Stoneware tiles are from their very nature easy to clean. With the tile cleaning programme from Argenol it is even easier.

Under no circumstance should a cleaner containing hydrofluoric acid ever be used.

Naturally, completely natural:

All the products in our Argenol cleaning program are considered fully bio-degradable by the Ordinance on Hazardous Substances.



All cleaning products are available for sale in 10 litre and 20 litre packaging.

SLIP RESISTANCE

Number	Workplaces, workareas and operational traffic areas	Slip resistance Class (R-Group)	Displacement Area (V-Group)	Number	Workplaces, workareas and operational traffic areas	Slip resistance Class (R-Group)	Displacement Area (V-Group)
0	General work rooms and areas			5.6	Raw sausage department	R 13	V 6
0.1	Entrance area, inside	R 9		5.7	Drying room for sausages	R 12	
0.2	Entrance area, outside	R 11 or R 10	V 4	5.8	Entrail storage	R 12	
0.3	Stairways, inside	R 9		5.9	Pickling and smoking room	R 12	
0.4	Stairways, outside	R 11 or R 10	V 4	5.10	Chicken processing	R 12	V 6
0.5	Sanitary rooms (eg toilets, changing rooms, cleaning rooms), break rooms (eg lounge, cafeteria), first aid rooms	R 10 R 9 R 9		5.11	Cold Meat and packing department	R 12	
				5.12	Workshops	R 12	V 8
1	Manufacture of margarine, cooking fat, cooking oil			6	Fish and Delicatessen processing		
1.1	Fat melting	R 13	V 6	6.1	Fish processing	R 13	V 10
1.2	Cooking oil refinery	R 13	V 4	6.2	Delicatessen processing	R 13	V 6
1.3	Manufacture and packing of margarine	R 12		6.3	Mayonnaise processing	R 13	V 4
1.4	Manufacture and packing of cooking fat, bottling of cooking oil	R 12		7	Vegetables processing		
				7.1	Sauerkraut processing	R 13	V 6
				7.2	Tinned vegetables processing	R 13	V 6
				7.3	Sterilisation rooms	R 11	
				7.4	Rooms in which vegetables are prepared for processing	R 12	V 4
2	Manufacture of milk and cheese			8	Wet rooms in food and beverage processing		
2.1	Manufacture of fresh milk and butter	R 12		8.1	Fermenting rooms	R 10	
2.2	Manufacture, storage and packing of cheese	R 11		8.2	Beverage bottling, fruit juice manufacture	R 11	
2.3	Manufacture of ice cream	R 12		9	Kitchens, dining rooms		
3	Manufacture of chocolate and confectionary			9.1	Hotel and Restaurant kitchens		
3.1	Sugar digester house	R 12		9.1.1	up to 100 meals per day	R 11	V 4
3.2	Manufacture of cocoa	R 12		9.1.2	more than 100 meals per day	R 12	V 4
3.3	Manufacture of raw mix	R 11		9.2	Kitchens in orphanages, schools or sanatoria	R 11	
3.4	Manufacture of praline	R 11		9.3	Kitchens in hospitals and clinics	R 12	
				9.4	Canteen and catering kitchens	R 12	V 4
				9.5	Snack bar and fast food kitchens	R 12	V 4
4	Manufacture of pastries (bakeries, confectionery, long-life bakery products)			9.6	Thawing and warm-up kitchens	R 10	
4.1	Manufacture of pastry	R 11		9.7	Coffee and Tea kitchens, kitchens in B&B hotels, ward kitchens	R 10	
4.2	Rooms in which fat or fluid products are produced and handled	R 12		9.8	Sink-room		
4.3	Sink-room	R 12	V 4	9.8.1	Sink rooms for 9.1, 9.4, 9.5	R 12	V 4
				9.8.2	Sink rooms for 9.2	R 11	
				9.8.3	Sink rooms for 9.3	R 12	
				9.9	Serving and dining rooms	R 9	
5	Slaughter and Meat processing						
5.1	Slaughterhouse	R 13	V 10				
5.2	Tripe scalding room	R 13	V 10				
5.3	Meat cutting room	R 13	V 8				
5.4	Sausage kitchen	R 13	V 8				
5.5	Boiled sausage department	R 13	V 8				

Number	Workplaces, workareas and operational traffic areas	Slip resistance Class (R-Group)	Displacement Area (V-Group)
10	Cold and freezer rooms		
10.1	for non-packed goods	R 12	
10.2	for packed goods	R 11	
11	Sales rooms		
11.1	Reception of meat		
11.1.1	for non-packed goods	R 11	
11.1.2	for packed goods	R 10	
11.2	Reception of fish	R 11	
11.3	Serving area for meat and sausages		
11.3.1	for unpackaged goods	R 11	
11.3.2	for packaged goods	R 10	
11.4	Serving area for bread and pastries	R 10	
11.5	Serving area for dairy products and delicatessen, nonpacked goods	R 10	
11.6	Serving area for fish		
11.6.1	for unpackaged goods	R 12	
11.6.2	for packaged goods	R 11	
11.7	Serving places, excl. 11.3 – 11.6	R 9	
11.8	Preparation rooms		
11.8.1	for meat processing, excl. no. 5	R 12	V 8
11.8.2	for meat manufacture, excl. no. 5	R 11	
11.9	Flower binding	R 11	
11.10	Sales areas with stationary ovens		
11.10.1	for producing pastries	R 11	
11.10.2	for crisp-up prefabricated pastries	R 10	
11.11	Sales areas for stationary deep fryers or grills	R 12	V 4
11.12	Sales rooms, customer rooms	R 9	
11.13	Preparation rooms of food for self-service areas	R 10	
11.14	Cashpoint and packing areas	R 9	
11.15	Outdoor sales areas	R 11 or R 10	V 4
12	Social and welfare service rooms		
12.1	Disinfection rooms (wet)	R 11	
12.2	Pre-cleaning for sterilisation	R 10	
12.3	Human waste rooms, outlet rooms,, unsanitary care rooms	R 10	
12.4	Autopsy rooms	R 10	
12.5	Bathrooms, water cure rooms, Fango treatments	R 11	
12.6	Washing rooms for Operations, cast rooms	R 10	
12.7	Sanitary rooms, ward bathrooms	R 10	
12.8	Rooms for medical diagnosis and therapy, massage rooms	R 9	
12.9	Operating rooms	R 9	
12.10	Wards with sickrooms and corridors	R 9	
12.11	Doctors' Offices, Day hospitals	R 9	
12.12	Pharmacies	R 9	
12.13	Laboratories	R 9	
12.14	Hair Salons	R 9	

Number	Workplaces, workareas and operational traffic areas	Slip resistance Class (R-Group)	Displacement Area (V-Group)
13	Laundries and Laundromats		
13.1	Rooms with washing machines	R 9	
13.2	Rooms with washing machines, where clothes are handled dripping wet	R 11	
13.3	Ironing and pressing rooms	R 9	
14	Concentrated feed processing		
14.1	Provender manufacture	R 11	
14.2	Provender manufacture with fat and water	R 11	V 4
15	Leather production, textiles		
15.1	Wet working areas in a tannery	R 13	
15.2	Room with fleshing machine	R 13	V 10
15.3	Room with leather waste	R 13	V 10
15.4	Room for production of fat based proofing	R 12	
15.5	Fabric dyeing in textile production	R 11	
16	Painting		
16.1	Wet polishing areas	R 12	V 10
17	Ceramics industry		
17.1	Wet milling	R 11	
17.2	Mixing Handling of materials such as tar, pitch, graphite or resins	R 11	V 6
17.3	Pressing (moulding) Handling of materials such as tar, pitch, graphite or resins	R 11	V 6
17.4	Casting areas	R 12	
17.5	Glazing areas	R 12	
18	Glass and stone processing		
18.1	Stone sawing and grindery	R 11	
18.2	Glass forming	R 11	
18.3	Grindery for glass	R 11	
18.4	Manufacture of insulated glass Handling of granulates	R 11	V 6
18.5	Packing and Shipping of flat glass, Handling of separating agents	R 11	V 6
18.6	Etching plants for glass	R11	

SLIP RESISTANCE

Number	Workplaces, workareas and operational traffic areas	Slip resistance Class (R-Group)	Displacement Area (V-Group)
19	Concrete production		
19.1	Concrete washing areas	R 11	
20	Store rooms		
20.1	Store rooms for oil and fat	R 12	V 6
20.2	Store rooms for packed grocery	R 10	
20.3	Outdoor store rooms	R 11 or R 10	V 4
21	Chemical and thermal treatment of metals		
21.1	Pickling shop	R 12	
21.2	Hardening shop	R 12	
21.3	Laboratory	R 11	
22	Metal treatment, workshops		
22.1	Galvanising rooms	R 12	
22.2	Cast iron handling areas	R 11	V 4
22.3	Mechanical work areas (for example turning shop or milling shop), punching shop, pressing shop, drawing shop, and all areas with increased oil lubrication requirements	R 11	V 4
22.4	Parts cleaning areas, areas with waste steam	R 12	
23	Service Workshops for motor vehicles		
23.1	Service rooms	R 11	
23.2	Pits	R 12	V 4
23.3	Car Wash	R 11	V 4
24	Service rooms for airplanes		
24.1	Hangars	R 11	
24.2	Dockyards	R 12	
24.3	Wash areas	R 11	V 4
25	Sewage Plants		
25.1	Pump rooms	R 12	
25.2	Sludge dehydration rooms	R 12	
25.3	Raking rooms	R 12	
25.4	Store rooms for service and maintenance platforms	R 12	
26	Fire stations		
26.1	Garages for vehicles	R 12	
26.2	Rooms for tube maintenance	R 12	
27	Financial institutions		
27.1	Circuit breaker room	R 9	

Number	Workplaces, workareas and operational traffic areas	Slip resistance Class (R-Group)	Displacement Area (V-Group)
28	Parking areas		
28.1	Garages, multi-storey car park, underground garage protected from outside weather	R 10	
28.2	Garages, multi-storey car park, underground garage not protected from outside weather	R 11 or R 10	V 4
28.3	Outdoor parking areas	R 11 or R 10	V 4
29	Schools and playschools		
29.1	Entrances, corridors, break halls	R 9	
29.2	Classrooms, meeting rooms	R 9	
29.3	Stairways	R 9	
29.4	Toilets, wash rooms	R 10	
29.5	Teaching kitchens (see no. 9)	R 10	
29.6	Kitchens in kindergartens	R 10	
29.7	Machine rooms for wood working	R 10	
29.8	Special rooms for crafts / handwork	R 10	
29.9	Schoolyards	R 11 or R 10	V 4
30	Industrial traffic routes in outdoor areas		
30.1	Walkways	R 11 or R 10	V 4
30.2	Loading docks		
30.2.1	Roofed	R 11 or R 10	V 4
30.2.2	Not roofed	R 12	V 4
30.3	Inclined ramps (eg wheel chairs, loading ramps)	R 12	
30.4.1	Refuelling area	R 12	
30.4.2	Refuelling area roofed	R 11	

Example of use:

The work area 6.3, mayonnaise processing, is assessed as having a slip resistance requirement of R13. The minimum displacement volume for the floor is rated V04, meaning a minimum of 4 cm³/dm².

The selection of an appropriate floor will depend upon the usage of the area and will refer to the following tested properties:

Slip resistance	Displacement volume
R 13	V 4
R 13	V 6
R 13	V 8
R 13	V 10



Always stay on safe ground

Argelith has proven to be the right choice for industrial floors requiring resistance to thermal, chemical mechanical and other stresses. As the graph shows Argelith keeps you on the safe side. Argelith tiles meet and exceed both requirements and norms for industrial floors.

Security:

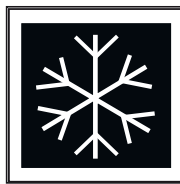
Stoneware and clinker tiles meet the key requirements in the high load areas of industry and commerce. And they always exceed the required standards!



Slip resistant
Argelith meets the requirements for all areas of application. (R10-R13 and V04-V10)



Chemical resistant
Argelith tiles are unglazed and oil, acid and alkali resistant



Frost resistant
Argelith tiles do not crack, even in low temperatures and at thermal shocks



Ecologically sound
Only natural materials with no chemical additives are used



Maximum load bearing
Argelith products are inherently elastic and can withstand high pressure

Protect your people and the environment

It is important, as well as possibly legally required, that the environment should not be damaged. Whether exposed to oils, fats, alkalis, acids or other dangerous substances a floor of Argelith tiles ensures that the required standards can be met!

Technical values:

tested according to DIN EN ISO 10545 Section 1-16

Argelith fine porcelain stoneware tiles comply in all tested properties with the requirements of the material Norm DIN EN 14411, Section G, Group B I and UGL.

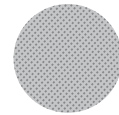
	Example: Sechseck 108 x 125 x 18 mm	Requirement according to DIN EN 14411	Argelith Bodenkeramik
STONEWARE	Modulus of rupture N/mm ² and average breaking strength in N	min. 35 N/mm ²	ca. 73,3 ± 4,1 ca. 15289 ± 911
	Resistance against deep wear	max. 175 mm ³	ca. 100 mm ³
	Water absorption in weight - %	max. 0,5 %	< 0,05 %

The above values are an extract from a test certificate. We will happily send you a test certificate for your desired material.

Surfaces



Smooth
R 9 - R 10 - R 11



Security
R 12



Nopped/Star
R 12/V 04
R 12/V 06
R 13/V 08

Technical values according to DIN 18158

Argelith clinker tiles

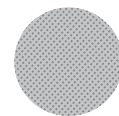
	Tested characteristic	requirement in DIN	Argelith is better!
CLINKER TILES	Modulus of rupture	min. 20 N/mm ²	38,1 N/mm ²
	Compressive strength	min. 150 N/mm ²	252 N/mm ²
	Water absorption	max. 3 %	fulfilled
	Acid resistance	required	fulfilled**
	Alkali resistance	required	fulfilled**
	Frost resistance	required	fulfilled
	Resistance against wear by grinding	max. 10 cm ²	5,7 cm ²
	Size consistency	±1,5%	fulfilled
	Coefficient of linear thermal expansion	5-8 x 10 ⁻⁶ /K ⁻¹	6,7 x 10 ⁻⁶ /K ⁻¹
	Thermal shock resistance	required	fulfilled

**Exception: Fluoridic acid (HF) and its compounds

Surfaces



Smooth
R 10 - R 11



Security
R 12



Nopped profile
R 12/V 06

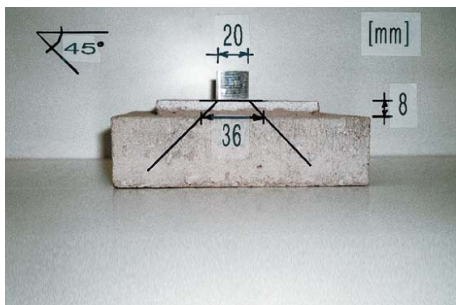
"Load distribution of tiles and slabs"



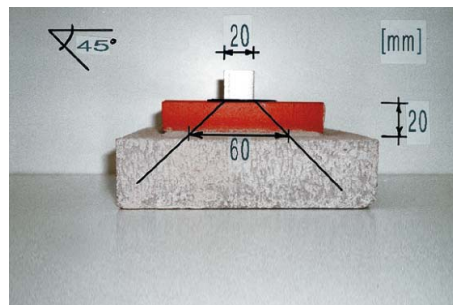
15 mm tile on concrete slab:
Fracture of slab and tile at 37.800 N (average value)



20 mm tile on concrete slab
Fracture of slab and tile at 45.200 N (average value)



System with thin tile (8 mm)



System with thick tile (20 mm)

Source: Säurefriesner-Vereinigung e.V.

The test clearly shows:

- ✓ **The thicker the tile, the greater the load required to cause fractures.**
- ✓ **Load distribution of a tile depends on its thickness.**
- ✓ **As tile thickness increases, load distribution is also greater, resulting in increased mechanical resistance.**
- ✓ **Ceramic tiles work to distribute the load into the substructure. This load-distribution effect is greater when thicker tiles are used. This should be taken into account during selection and when determining the expected mechanical load.**

Tests were carried out with a load increase of approximately 1.000 N (corresponds to 100 kg) per second.

The break occurred as the force decreased, bringing along with it visible damage to the test pieces.



Stoneware manufactured by Argelith conforms to CE regulations.

System tested Load distribution 20 x 20 mm	Breaking load in N	
	Single values	Average value
Mortar (no tile) 150 x 150 x 40	19.000 20.500 22.000	20.500
tile 100 x 100 x 8 mm on mortar 150 x 150 x 40 mm	28.000 30.000 26.000	28.000
tile 100 x 100 x 12 mm on mortar 150 x 150 x 40 mm	34.000 35.500 33.000	34.200
tile 100 x 100 x 15 mm on mortar 150 x 150 x 40 mm	37.000 37.500 39.000	37.800
tile 100 x 100 x 20 mm on mortar 150 x 150 x 40 mm	46.000 45.500 44.000	45.200



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