

Norms EN 14411/ISO 13006 - Annex G - Group BIa					
Dimensions surface quality	ISO 10545-2	10 X 10 Smooth Texture			CO40868(ITC)
Surface quality	ISO 10545-2	10x10 Smooth Texture			CO40869(ITC)
Water absorption	ISO 10545-3	Boiling Method		0,10%	C180199 (ITC)
		Boiling Method		0,10%	C181458 (ITC)
		Boiling Method		0,10%	C181452 (ITC)
		Boiling Method		0,06%	1.5.2299/08 (CTCV)
		Vacuum Method		0,04%	1.5.2300/08 (CTCV)
	ASTM C 373	Vacuum Method		0,05%	73A/2017 (CTCV)
				0,02%	1.5.2301/08 (CTCV)
Breaking Strength	ISO 10545-4		Values		
			N	N/mm2	
		10x10 - 8mm	2278	62,9	2954/17 (CTCV)
		10x10 - 8mm	2078	56,3	1911/09 (CTCV)
		10x10 - 8mm	1808	52	CO40871 (ITC)
		10x10 - 8mm	1967	51,5	2533/08 (CTCV)
		10x10 - 8mm	1959	51,2	4983/10 (CTCV)
		15x15 - 8mm	1922	53,5	2955/17 (CTCV)
		15x15 - 8mm	1955	52	3056/09 (CTCV)
		15x15 - 8mm	1941	52,6	2534/08 (CTCV)
		15x15 - 8mm	2228	60,8	5225/10 (CTCV)
		15x15 - 12mm	4456	56,2	2535/08 (CTCV)
		7,5x15 - 8mm	2199	54,5	2958/17 (CTCV)
		7,5x15 - 8mm	2093	60	3055/09 (CTCV)
		7,5x15 - 8mm	2178	58,4	2536/08 (CTCV)
		7,5x15 - 8mm	2160	56,8	5224/10 (CTCV)
		10x30 - 8mm	2212	58,5	2957/17 (CTCV)
10x30 - 8,5mm	2194	55,3	3057/09 (CTCV)		
30x30 - 8,5mm	2170	52,3	2956/17 (CTCV)		
30x30 - 8,5mm	2003	51,3	2110/09 (CTCV)		
30x30 - 8,5mm	2219	56,5	2537/08 (CTCV)		
30x30 - 8,5mm	2254	55,7	4986/10 (CTCV)		
Impact resistance	ISO 10545-5	10x10 Smooth Texture			CO40872(ITC)
Resistance to deep abrasion	ISO 10545-6	10x10 Smooth Texture			CO40873(ITC)
Détermination de la Tenue au Choc Lourde	UPEC ANNEXE 6	6601 - 12mm			1.5.1442/2010 (CTCV)
Resistance au Roulage	UPEC ANNEXE 5	6601 - 12 mm			1.5.1443/2010 (CTCV)
Scratch hardness of surface according to MOHS	EN101/176	10x10 Smooth Texture			1826/97 (DAR)
Coefficient of linear thermal expansion	ISO 10545-8	10x10 Smooth Texture			CO40874 (ITC)
Thermal shock resistance	ISO 10545-9	10x10 Smooth Texture			CO40875 (ITC)
		10x10 Smooth Texture			3054/09 (CTCV)
		10x10 Smooth Texture			2533/08 (CTCV)
		10x10 Smooth Texture			4983/10 (CTCV)
Moisture expansion	ISO 10545-10	10x10 Smooth Texture			2954/17 (CTCV)
		10x10 Smooth Texture			CO40876(ITC)
Frost resistance	ISO 10545-12	10x10 Smooth Texture			CO40877 (ITC)
		10x10 Smooth Texture			3054/09 (CTCV)
		10x10 Smooth Texture			2533/08 (CTCV)
		10x10 Smooth Texture			4983/10 (CTCV)
Chemical resistance	ISO10545-13	10x10 Smooth Texture colour 01			2954/17 (CTCV)
		10x10 Smooth Texture colour 15			C181457 (ITC)
		10x10 Smooth Texture colour 14			C181451 (ITC)
		10x10 Smooth Texture colour 16			C180201 (ITC)
		10x10 Smooth Texture colour 14			C180487 (ITC)
		10x10 Smooth Texture colour 13			1891/12 (CTCV)
		10x10 Smooth Texture colour 18			C195119 (ITC)
Stain resistance	ISO 10545-14	10x10 Smooth Texture colour 15			C195121 (ITC)
		10x10 Smooth Texture colour 01			C195123 (ITC)
		10x10 Smooth Texture colour 20			C181450(ITC)
		10x10 Smooth Texture colour 16			C181456(ITC)
		10x10 Smooth Texture colour 14			C180486(ITC)
		10x10 Smooth Texture colour 09			C180488(ITC)
		10x10 Smooth Texture colour 13			C180491(ITC)
		10x10 Smooth Texture colour 18			1437/00 (CTCV)
		10x10 Smooth Texture colour 28			C195120(ITC)
		10x10 Smooth Texture colour 28			C195122(ITC)
SLIP RESISTANCE	Dynamic Coefficient of Friction (DCOF)		Values		
	ASTM - ANSI A137.1-2012	10x10 Smooth Texture	0.62		101733656COQ-001
	AS 4586:2013 Apendix B	10x10 Riven Texture (RT)	0.65		101733656COQ-001A
		10x10 Smooth Texture	0.65		16/9779.2
	Wet Pendulum Slip Resistance				
	AS 4586:2013 Apendix A	10x10 Smooth Texture		47	16/9779.1
(Ramp)	10x10 Plain Finish (smooth)	10° < R10 ≤ 19°	R10	EE.HS-KOBLENZ 2013 KP100-9 4401 244 DIN51130 EE.HS-KOBLENZ 2013 KP100-10 4416 293 DIN51130	

DIN 51130 (values explanation)	10x10 Octagon with dot	10° < R10 ≤ 19°	R10	KP 38 3 4416OCT14 M7400 DIN51130		
	10x10 Hexagon	10° < R10 ≤ 19°	R10	KP 38 1 L4401HEX 295 DIN51130		
	10x10 Round Studs (RC)	19° < R11 ≤ 27°	R11 (V8)	EE.HS-KOBLENZ 2013 KP33-9 4401RC 210 DIN51130		
	10x10 Square Studs (SS1 mm)	19° < R11 ≤ 27°	R11 (V6)	EE.HS-KOBLENZ 2013 KP33-10 4401SS 238 DIN51130		
	10x10 Diamond Studs (DD)	27° < R12 ≤ 35°	R12	EE.HS-KOBLENZ 2013 KP33-8 4401DD 223 DIN51130		
	10x10 Riven (RT)	27° < R12 ≤ 35°	R12	EE.HS-KOBLENZ 2013 KP100-13 4401RT 244 DIN51130		
	10x30 Plain Finish (smooth)	10° < R10 ≤ 19°		KP 38 2 1301 283 DIN51130		
	BRG181 (Drainage)	15x15 Plain Finish (smooth)	10° < R10 ≤ 19°	R10	EE.HS-KOBLENZ 2013 KP100-11 6601 244 DIN51130 EE.HS-KOBLENZ 2013 KP100-12 6616 294 DIN51130	
		15x15 Round Studs (RC)	19° < R11 ≤ 27°	R11 (V6)	EE.HS-KOBLENZ 2008 KP256-2 6601RC 146 DIN51130	
		15x15 Square Studs (SS1 mm)	19° < R11 ≤ 27°	R11	KP 107 - 4/10 (FH - Koblenz)	
		15x15 Diamond Studs (DD)	27° < R12 ≤ 35°	R12 (V7)	EE.HS-KOBLENZ 2008 KP256-4 6601DD 175 DIN51130	
		15x15 Riven (RT)	27° < R12 ≤ 35°	R12 (V5)	EE.HS-KOBLENZ 2008 KP 256-1 6601RT 174 DIN51130 EE.HS-KOBLENZ 2013 KP 100-14 6601RT 244 DIN51130	
		30x30 Plain Finish (smooth)	6° ≤ R9 ≤ 10°	R9	EE.HS-KOBLENZ 2013 KP100-16 3001 244 DIN51130	
		30x30 Smooth R	19° < R11 ≤ 27°	R11	KP 107 - 6/10 (FH - Koblenz)	
		30x30 Riven (RT)	19° < R11 ≤ 27°	R11	EE.HS-KOBLENZ 2013 KP100-15 3001RT 244 DIN51130	
		Areas with footwear		Angle	Category	
			DIN 51 097 By German Institutes			
	10x10 Smooth Texture		18° ≤ B < 24°	B	EE.HS-KOBLENZ 2013 KP33-1 4401 238 DIN51097 EE.HS-KOBLENZ 2013 KP100-1 4401 244 DIN51097	
	(values explanation)					
10x10 Octagon with dot	18° ≤ B < 24°		B	KP 38 6 4416OCT14 M7400 DIN51097		
10x10 Hexagon Smooth Texture	18° ≤ B < 24°		B	KP 38 4 L4401HEX 295 DIN51097		
Bare-footed Areas	10x10 Smooth Texture (white)		C ≥ 24°	C	EE.HS-KOBLENZ 2013 KP100-2 4416 293 DIN51097	
	10x10 Round Studs (RC)		C ≥ 24°	C	EE.HS-KOBLENZ 2013 KP33-2 4401RC 210 DIN51097	
	10x10 Square Studs (SS1 mm)		C ≥ 24°	C	EE.HS-KOBLENZ 2013 KP33-3 4401SS 238 DIN51097	
	10x10 Riven Texture(RT)		C ≥ 24°	C	EE.HS-KOBLENZ 2013 KP100-5 4401RT 244 DIN51097	
	10x30 Smooth Texture		18° ≤ B < 24°	B	KP 38 5 1301 283 DIN51097	
	15x15 Smooth Texture		18° ≤ B < 24°	B	EE.HS-KOBLENZ 2013 KP100-3 6601 244 DIN51097 EE.HS-KOBLENZ 2013 KP100-4 6616 294 DIN51097	
	15x15 Rubber dies (R)		18° ≤ B < 24°	B	72529906-001 (Säure-flisner)	
	15x15 Square Studs (SS1 mm)		C ≥ 24°	C	KP 107 - 1/10 (FH - Koblenz)	
	15x15 Riven Texture(RT)		C ≥ 24°	C	EE.HS-KOBLENZ 2013 KP100-6 6601RT 244 DIN51097	
	30X30 Smooth		12° ≤ A < 18°	A	EE.HS-KOBLENZ 2013 KP100-8 3001 244 DIN51097	
30X30 Smooth R	18° ≤ B < 24°		B	KP 107 - 3/10 (FH - Koblenz)		
30x30 Riven Texture(RT)	18° ≤ B < 24°		B	EE.HS-KOBLENZ 2013 KP100-7 3001RT 244 DIN51097		
(Ramp) DIN 51 097 By Ceram UK			Angle	Category		
	10x10 Smooth Texture	18° ≤ B < 24°	B	(086579)-30001 CERAM - UK		
	15x15 Smooth Texture	18° ≤ B < 24°	B	(086579)-30000 CERAM - UK		
	15x15 Round Stud (RC)	C ≥ 24°	C	(086579)-29999 CERAM - UK		
	15x15 Square Studs (SS)	C ≥ 24°	C	(086579)-29998 CERAM - UK		
	15x15 Diamond Studs (DD)	C ≥ 24°	C	(086579)-29997 CERAM - UK		
	15x15 Riven Texture (RT)	C ≥ 24°	C	(086579)-29996 CERAM - UK		
	(values explanation)					
SLIP RESISTANCE Determination of slip resistance of ceramic tiles" by the Pendulum method"		Dry Values	Wet Values			
	Pendulum (slider96) CEN/TS 16165:2016 Annex C	10x10 Smooth Texture colour 14	69	42	C200590(ITC)	
		10x10 Smooth Texture colour 16	71	51	C200589(ITC)	
		10x10 Smooth Texture colour 28	62	53	C195138(ITC)	
		7,5x15 SmoothTexture colour 13	64	43	C200602(ITC)	
		15x15 Smooth Texture colour 20	63	42	C195128(ITC)	
		15x15 Smooth Texture colour 01	64	44	C195129(ITC)	
		15x15 Smooth Texture colour 16	61	48	C195130(ITC)	
		10x30 Smooth Texture colour 14	68	43	C200600(ITC)	
		30x30 Smooth Texture colour 16	69	50	C200601(ITC)	
		10x10 Octagon 4416OCT14	65	45	C200603(ITC)	
		10x10 HEX colour 07	63	39	C200595(ITC)	
		10x10 Round Studs (RC)	81	73	C200592(ITC)	
		15x15 Round Studs (RC)	85	75	C200597(ITC)	
		10x10 Square Studs (SS)	83	74	C200594(ITC)	
		15x15 Square Studs (SS)	85	71	C200599(ITC)	
	10x10 Diamond Studs (DD)	88	79	C200591(ITC)		
	15x15 Diamond Studs (DD)	85	70	C200596(ITC)		
	10x10 Riven (RT)	63	53	C200593(ITC)		
	15x15 Riven (RT)	67	55	C200598(ITC)		
	Pendulum (slider57) UNE 41901:2017 EX (SPAIN) (values explanation)		Class	Value		
		Class 0 Rd ≤ 15	10x10 Smooth colours 16	2	37	C200574
			10x10 Smooth colours 28	2	39	C195137
			10x10 Smooth colours 14	1	30	C200575
			10x10 Octagon 4416oct14	1	32	C200588
			10x10 HEX Smooth colour 07	1	29	C200580
			7,15x15 Smooth colour 13	1	32	C200587
			15x15 Smooth colour 16	1	35	C195127
			15x15 Smooth colour 01	1	30	C195126
15x15 Smooth colour 20			1	26	C195125	
10x30 Smooth colour 14			1	28	C200585	
30x30 Smooth colour 16		1	34	C200586		
Class 1 15 < Rd ≤ 35		10x10 Round Studs(RC)colour 11	3	57	C200577	
		15x15 Round Studs(RC)colour 13	3	53	C200582	
	10x10 Square Studs(SS)colour 06	3	64	C200579		
	15x15 Square Studs(SS)colour 27	3	58	C200584		
Class 2 35 < Rd ≤ 45	10x10 DiamondStuds(DD)colour11	3	51	C200576		
	15x15 DiamondStuds(DD)colour15	3	56	C200581		
	Class 3 Rd > 45	10x10 Riven (RT) colour 30	3	47	C200578	
		15x15 Riven (RT) colour 06	3	54	C200583	