

Quality Standard for internal and external walls

The Japan Industrial Standard for Ceramic Tiles (JIS A 5209), along with its testing standards (JIS A 1509-1 to 13), serves as the unified standard for tiles in Japan. Additionally, we are dedicated to quality control through our own more rigorous internal standards, which are based on these JIS standards. For your reference, here is a notation of a part of the JIS product and testing standards.

charact	teristics				test method	
Water absorption	%	Dry-pressed B I ∶ ≤ 3.0			JIS A 1509-3	
(Boiling or Vacuum)		Extruded	ΑII : <u>s</u>	JIS A 1509-3		
	N	Internal walls ≥ 108	External walls			
Breaking strength			Surface area		US A 1500 4	
			< 60 cm ²	≥ 60 cm ²	JIS A 1509-4	
			≥ 540	≥ 720		
Thermal shock resistance		No damage			JIS A 1509-7	
Crazing resistance		No crazing			JIS A 1509-8	
Frost resistance		No damage			JIS A 1509-9	
	ammonium chloride solution, 100g/l.	Declared value				
	hydrochloric acid solution, 3%	Declared value			JIS A 1509-10	
Resistance to chemicals	citric acid solution, 100g/l	Declared value				
	potassium hydroxide solution, 30g/l	Declared value				
	sodium hypochlorite solution, 2.0g/l	Declared value				
Lead and cadmium release	μg/cm²	Declared value			JIS A 1509-11	

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Non-flammable

The reaction to fire performance of ceramic tiles may also be classified also as Class A1 according to EN 13501-1.



Technical Data Sheet

	1. Collection	HIIRONE						
	2. Category of tile	All Glazed tile			All Unglazed tile			
		239.0	239.0	239.0	239.0	239.0	239.0	
	3. Length, Width & Thickness	x 60.0	x 60.0	x 30.0	x 60.0	x 60.0	x 30.0	
		x 12.0 mm	x 13.0 mm	x 18.0 mm	x 12.0 mm	x 13.0 mm	x 18.0 mm	
4. Item number	4 Itom number	FC-2	FC-2RG	FC-30B	FC-2	FC-2RG	FC-30B	
	4. Item number	/N1~N3	/N1~N3	/N1~N3	/N5~N9	/N5~N9	/N5~N9	

characteristics		JIS A 5209					
Length (mm)		239.0 ± 3.0	239.0 ± 3.0	239.0 ± 3.0	239.0 ± 3.0	239.0 ± 3.0	239.0 ± 3.0
Width (mm)		60.0 ± 2.0	60.0 ± 2.0	30.0 ± 1.5	60.0 ± 2.0	60.0 ± 2.0	30.0 ± 1.5
crook (mm) Length		≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
	Width	≤ 2.0	≤ 2.0	≤ 1.5	≤ 2.0	≤ 2.0	≤ 1.5
Thickness (mm)		12.0 ± 1.5	13.0 ± 1.5	18.0 ± 1.5	12.0 ± 1.5	13.0 ± 1.5	18.0 ± 1.5
Centre curvature (mm)		± 2.0	N/A	± 2.0	± 2.0	N/A	± 2.0
Torsion (mm)		≤ 1.5	N/A	≤ 1.5	≤ 1.5	N/A	≤ 1.5
Edge curvature (mm)		N/A	N/A	N/A	N/A	N/A	N/A
Straightness of sides (mm)		± 2.0	± 2.0	± 2.0	± 2.0	± 2.0	± 2.0
Rectangularity (mm)		≤ 2.0	≤ 2.0	N/A	≤ 2.0	≤ 2.0	N/A
Shape of back feet		Dovetailed	Dovetailed	Dovetailed	Dovetailed	Dovetailed	Dovetailed
знаре от раск теет		shape	shape	shape	shape	shape	shape
Height of back feet (mm)		1.5 - 3.5	1.5 - 3.5	1.5 - 3.5	1.5 - 3.5	1.5 - 3.5	1.5 - 3.5
Water absorption (%) (Vacuum method)		≤ 10.0	≤ 10.0	≤ 10.0	≤ 10.0	≤ 10.0	≤ 10.0
Breaking strength (N)		≥ 720	≥ 720	≥ 720	≥ 720	≥ 720	≥ 720
Thermal shock resistance		N/A	N/A	N/A	N/A	N/A	N/A
Crazing resistance		No crazing	No crazing	No crazing	N/A	N/A	N/A
Frost resistance		No damage					
Resistance to chemicals		Declared	Declared	Declared	Declared	Declared	Declared
		value	value	value	value	value	value

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Note:

Testing methods are in compliance with JIS A5209:2020 and JIS A 1509.