

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.

characteristics					test method
Water absorption	%	Dry-pressed B I : ≤ 3.0			JIS A 1509-3
(Boiling or Vacuum)		Extruded A II ∶ ≤ 10.0			
Breaking strength	Z	Internal walls	External walls		JIS A 1509-4
			Surface area		
			< 60 cm ²	≥ 60 cm ²	. JIS A 1509-4
		≥ 108	≥ 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
Resistance to chemicals	ammonium chloride solution, 100g/l.	Declared value			JIS A 1509-10
	hydrochloric acid solution, 3%	Declared value			
	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

Collection MADOCA-R
 Category of tile BI Glazed tile

3. Length, Width & Thickness 45.0 x 45.0 x 9.5 mm
4. Item number IM-45P1/MDK-31~MDK-34

characteristics	JIS A 5209		
Length (mm)	45.0 ± 0.8		
Width (mm)	-		
Crook (mm)	Length	N/A	
	Width	-	
Thickness (mm)	9.5 ± 0.7		
Centre curvature (mm	N/A		
Torsion (mm)	N/A		
Edge curvature (mm)	N/A		
Straightness of sides (N/A		
Rectangularity (mm)	N/A		
Shape of back feet	Dovetailde shape		
Height of back feet (m	1.5 - 3.5		
Water absorption (%)	≤ 3.0		
Breaking strength (N)	N/A		
Thermal shock resista	No damage		
Crazing resistance (-)	No crazing		
Frost resistance (-)	No damage		
Resistance to chemica	Declared value		

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Note:

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