Johnson TILES

Technical Data Sheet

Brunswick

Porcelain Wall and Floor Tile

Test Description			
Wet Pendulum	P3		
Specifications			
Working Size	148x900x10.2mm		
Nominal Size	150x900mm		
Dimensions and Surface Quality			
Testing Item	**Technical Requirements**	**Result**	**Verdict**
Length The deviation of the average size for each tile from the work size	±0.3%	-0.02%~0	P
	±1.0mm	-0.2mm~0	
Width The deviation of the average size for each tile from the work size	±0.3%	+0.09%~+0.18%	P
	±1.0mm	+0.1mm~+0.3mm	
Thickness The deviation of the average thickness of each tile from the work size thickness	±5%	-0.4%~+1.6%	P
	±0.5mm	0~+0.2mm	
Straightness of sides: The maximum deviation from straightness related to the corresponding work sizes			
Length	±0.3%	0~+0.01%	P
	±0.8mm	0~+0.1mm	
Width	±0.3%	-0.07%~-0.03%	
	±0.8mm	-0.1mm~0	
Rectangularity: The maximum deviation from Rectangularity related to the corresponding work sizes			
Length	±0.3%	-0.03%~-0.01%	P
	±1.5mm	-0.2mm~-0.1mm	
Width	±0.3%	+0.01%~+0.07%	
	±1.5mm	0~+0.1mm	
Surface Flatness: The maximum deviation from flatness			
A) Centre curvature, related to diagonal calculated from the work size	±0.4%	-0.03%~+0.03%	P
	±1.8mm	-0.3mm~+0.3mm	

B) Edge curvature, related to the corresponding work sizes			
Length	±0.4%	+0.01%~+0.02%	P
	±1.8mm	+0.1mm~+0.2mm	
Width	±0.4%	-0.25%~-0.17%	
	±1.8mm	-0.4mm~-0.2mm	
C) Warpage, related to diagonal calculated from the work size	±0.4%	-0.04%~+0.04%	P
	±1.8mm	-0.4mm~+0.4mm	
Surface Quality	A minimum of 95% of the tiles shall be free from visible defects inspected vertically at 1.0m	100%	P

Physical Properties

Testing Item	Technical Requirements	Result	Verdict
Water Absorption Rate E (%)	$E_v \leq 0.5\%$	0.06%	P
	Individual maximum 0.6%	0.05%~0.07%	P
Breaking Strength, in N	≥1300	2670	P
Modulus of Rupture, in N/mm^2	Minimum 35	47.7	P
	Individual minimum 32	44.1~51.8	P

Chemical Properties

Testing Item	Technical Requirements	Result	Verdict
a) Green staining agent in light oil	Minimum Class 3	Class 5	P
b) Red staining agent in light oil	Minimum Class 3	Class 5	P
c) Iodine, 13g/L solution in alcohol	Minimum Class 3	Class 5	P
d) Olive oil	Minimum Class 3	Class 5	P

The above Johnson Tiles technical specifications are a general indication only. Please contact your local Johnson Tiles representative or state office for more detailed information.