

# Certificate of Technical Specifications

**portinari**

ambientes com emoção

PRODUCT: METAL BRICKS GD NAT  
 FORMAT: 77.5 X 241.0mm X 7.4 mm CONTAINS: 25 Pieces 0,47 m2 5,06 SQFT GROUP: Bla

Technical Characteristics	ISO	Req.	Unit	Specification
DIM. VAR. IN REL. W. OF THE GREATER SIDE	10545-2	±1.45	mm	±1.45
DIM. VAR. IN REL. W. OF THE MINOR SIDE	10545-2	±0.90	mm	±0.90
THICKNESS VARIATION	10545-2	±0.37	mm	±0.37
STRAIGHTNESS OF THE GREATER SIDE	10545-2	±1.20	mm	±1.20
STRAIGHTNESS OF THE MINOR SIDE	10545-2	±0.80	mm	±0.80
DEVIATION FROM ORTHOGONALITY OF THE GREATER SIDE	10545-2	±1.20	mm	±1.20
DEVIATION FROM ORTHOGONALITY OF THE MINOR SIDE	10545-2	±0.80	mm	±0.80
CENTRAL DIAGONAL CURVATURE DEVIATION	10545-2	±1.26	mm	±1.26
DEVIATION OF THE CURVATURE OF THE SIDES	10545-2	±1.20	mm	±1.20
DEVIATION OF THE CURVATURE OF THE SIDES	10545-2	±0.80	mm	±0.80
BENDING OVER DIAGONAL	10545-2	±1.26	mm	±1.26
QUALITY OF SURFACE	10545-2	≥95	%	≥95
WATER ABSORPTION	10545-3	≤0.5	%	≤0.5
RESISTANCE TO BENDING	10545-4	≥35	N/mm2	≥35
BREAKING STRENGTH	10545-4	≥700	N	≥700
CLASS OF USAGE		Specify	Use	5
THERMAL SHOCK RESISTANCE	10545-9	-	-	-
LINEAR EXPANSION COEFFICIENT X 10-6	10545-8	-	°C-1	-
MOISTURE EXPANSION	10545-10	-	mm/m	≤0.30
GRAZING RESISTANCE	10545-11	-	-	OK
RESISTANCE TO CHEMICALS	10545-13	Minimum Class GB	-	GA
RESISTANCE ATTACKS ACID/ALKALINE	10545-13	Specify	-	GLB
SURFACE RESISTANCE TO STAINS	10545-14	Minimum Class 3	-	4
COEFFICIENT OF FRICTION WET	NBR16919	Specify		≥0.4
CHANGES IN HUE				V3

Note: Product in accordance with ABNT NBR 13006 standard  
 Reaction to fire evaluation (NBR15575): Class I (non-combustible)  
 USE 5 - All residential and commercial areas with moderate traffic.

  
 Jamilson Pinter Júnior  
 Responsável Técnico RC1 e RC2

  
 Gialdino da Luz  
 Responsável Técnico RC3 e RC4