KUNA *Bella* by sadas BULGARIA

Declaration of Performance
No 300816–E2/25.10.2016

1. Unique identification code of the product type:
   Natural stone – White limestone Kuna Bela, from quarry Village Kunino, Municipality Roman, Region Vratsa
2. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
   As slabs for internal or external finishes in walls or ceilings
   As slabs and sets for external uses and road finishes to cover external pedestrian circulation areas
   As slabs for floor and stair finishes
3. Name, registered trade name or registered trademark and contact address of manufacturer as required under Article 11(5):
   SADAS Ltd.
   42G Gotse Delchev Str., Sofia, Bulgaria
4. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:
   System 4
5. Declared performances:

Essential characteristics	Performances	Harmonised technical specifications
Reaction to fire	Class A1	EN 1341:2012 EN 1342:2012 EN 1343:2012 EN 1469:2015 EN 12058:2015
Release of dangerous substances - Index of specific activity	0,033	
Water vapor permeability (μ)	32,8	
Flexural strength under concentrated load: - minimum expected value - mean strength - standard deviation of the mean	 6,6 MPa 8,2 MPa 0,3 MPa	
Compressive strength:		
- minimum expected value	54,4 MPa	
- mean strength	69,9 MPa	
- standard deviation of the mean	2,3 MPa	
Breaking load at dowel hole: - mean value of the force - standard deviation of mean	 1683,5 N 18,7 N	
Resistance to ageing by thermal shock: - mass loss - change of dynamic modulus of elasticity	 Without mass loss ≤ 7 %	
Apparent density	2280 kg/m³	
Real density	2710 kg/m³	
Open porosity	11,6 %	
Water absorption at atmospheric pressure	5,1 %	
Water absorption by capillarity	13,8 g/(m² s$^{1/2}$)	
Thermal conductivity	1,80 W/m.K	
Abrasion resistance: - with wide wheel abrasion machine - with Böhme tester	 NPD 3078 mm³	
Slip/skid resistance - SRV dry - SRV wet	 80,9 78,5	
Freeze/thaw resistance. Reduction of flexural strength under concentrated load: - after 40 cycles - after 48 cycles	 2,3 % NPD	

6. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 5.

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EN 1469:2015

Natural stone – White limestone Kuna Bela, from quarry Village Kunino, Municipality Roman, Region Vratsa

Natural stone slabs for internal or external finishes in walls or ceilings

Reaction to fire	Class A1
Release of dangerous substances	
– Index of specific activity	0,033
Water vapor permeability (μ)	32,8
Flexural strength under concentrated load:	
– minimum expected value	6,6 MPa
– mean strength	8,2 MPa
– standard deviation of the mean	0,3 MPa
Breaking load at dowel hole:	
– mean value of the force	1683,5 N
– standard deviation of mean	18,7 N
Resistance to ageing by thermal shock:	
– mass loss	Without mass loss
– change of dynamic modulus of elasticity	≤ 7 %
Direct sound insulation:	
– apparent density	2280 kg/m3
Thermal properties:	
– apparent density	2280 kg/m3
– thermal conductivity	1,80 W/m.K
Freeze/thaw resistance.	
Reduction of flexural strength under concentrated load:	
– after 40 cycles	2,3 %

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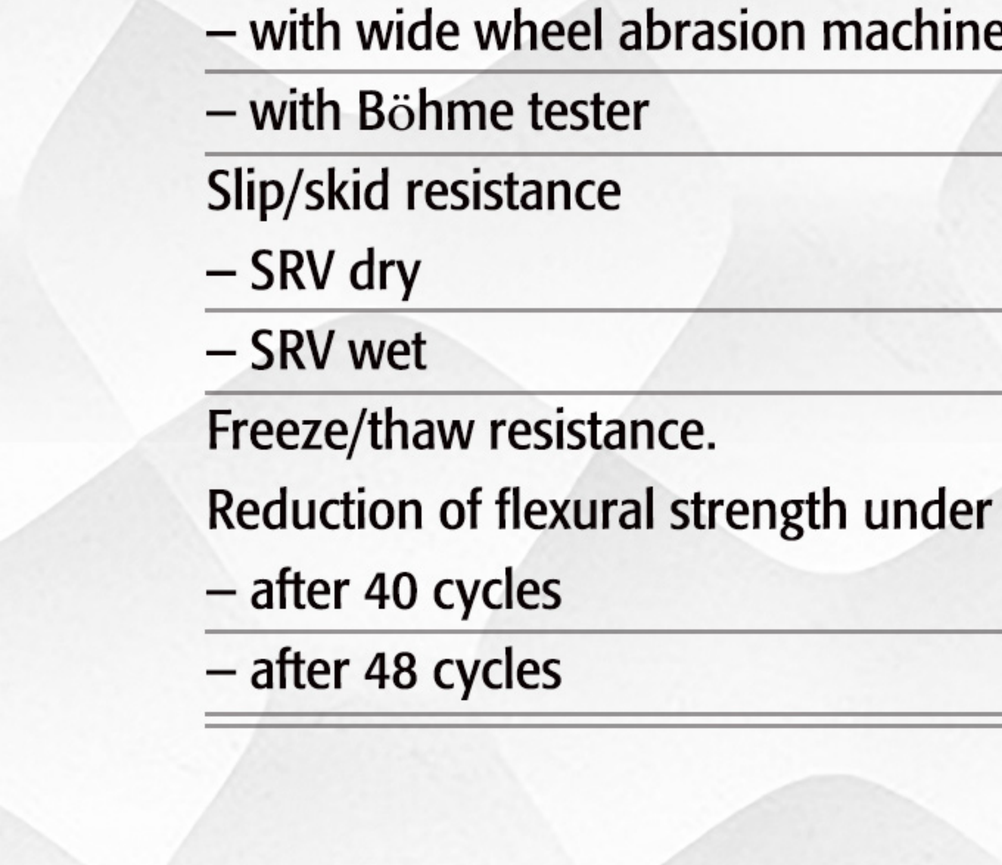
EN 1341:2012

Natural stone – White limestone Kuna Bela, from quarry Village Kunino, Municipality Roman, Region Vratsa

Natural stone slabs for external uses and road finishes to cover external pedestrian circulation areas

Flexural strength under concentrated load:	
– minimum expected value	6,6 MPa
– mean strength	8,2 MPa
– standard deviation of the mean	0,3 MPa
Abrasion resistance:	
– with wide wheel abrasion machine	NPD
– with Böhme tester	3078 mm3
Slip/skid resistance	
– SRV dry	80,9
– SRV wet	78,5
Freeze/thaw resistance.	
Reduction of flexural strength under concentrated load:	
– after 40 cycles	2,3 %
– after 48 cycles	NPD



www.dekorbg.com

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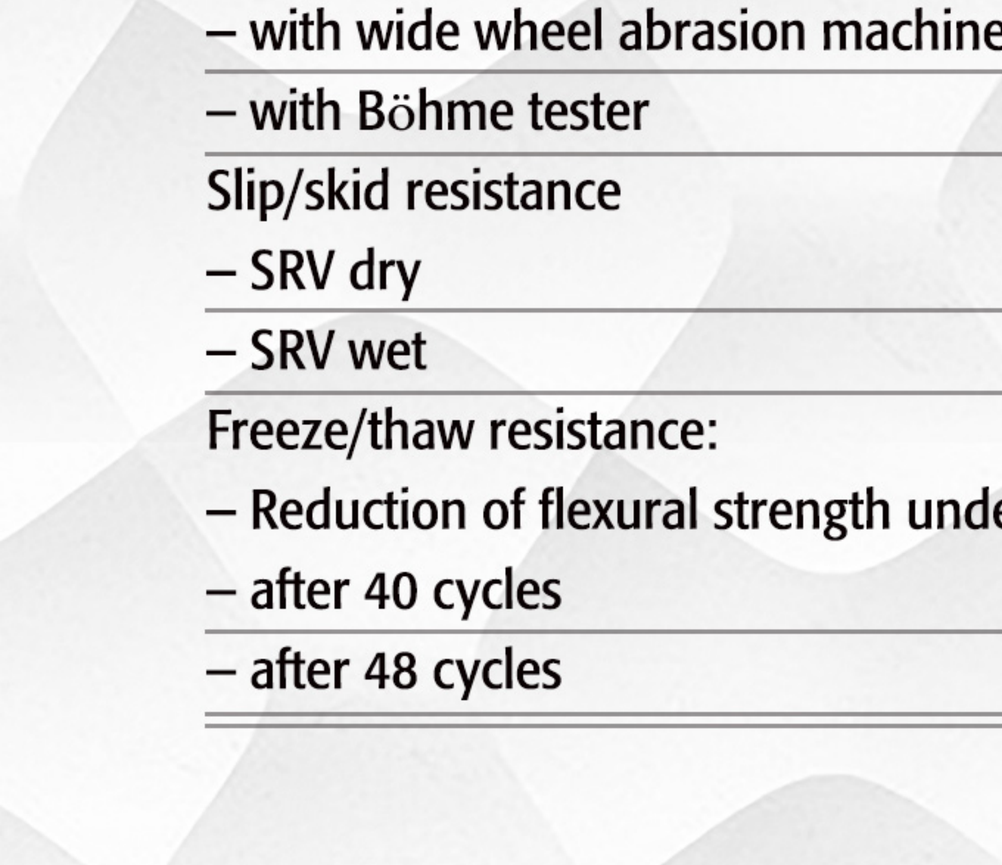
EN 1342:2012

Natural stone – White limestone Kuna Bela, from quarry Village Kunino, Municipality Roman, Region Vratsa

Natural stone sets for external uses and road finishes to cover external pedestrian circulation areas

Compressive strength:	
– minimum expected value	54,4 MPa
– mean strength	69,9 MPa
– standard deviation of the mean	2,3 MPa
Abrasion resistance:	
– with wide wheel abrasion machine	NPD
– with Böhme tester	3078 mm3
Slip/skid resistance	
– SRV dry	80,9
– SRV wet	78,5
Freeze/thaw resistance:	
– Reduction of flexural strength under concentrated load:	
– after 40 cycles	2,3 %
– after 48 cycles	NPD



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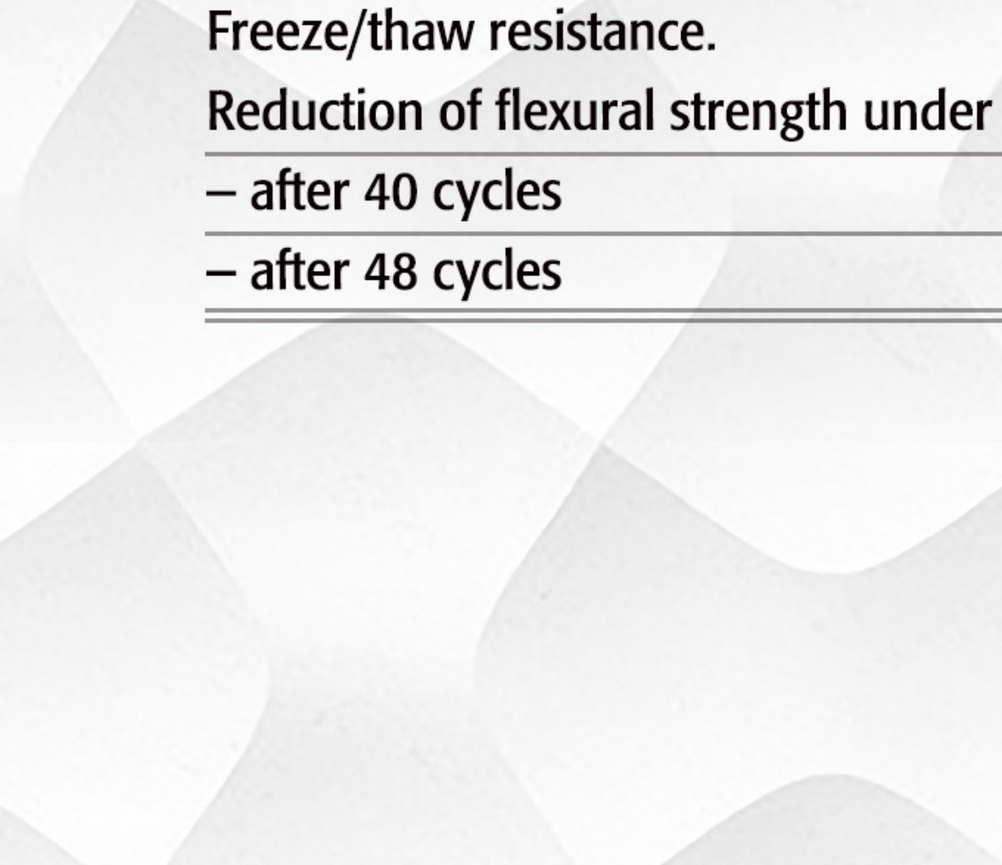
EN 1343:2012

Natural stone – White limestone Kuna Bela, from quarry Village Kunino, Municipality Roman, Region Vratsa

Natural stone kerbs for external uses and road finishes to cover external pedestrian circulation areas

Flexural strength under concentrated load:	
– minimum expected value	6,6 MPa
– mean strength	8,2 MPa
– standard deviation of the mean	0,3 MPa
Breaking load	NPD
Freeze/thaw resistance.	
Reduction of flexural strength under concentrated load:	
– after 40 cycles	2,3 %
– after 48 cycles	NPD



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EN 12058:2015

Natural stone – White limestone Kuna Bela, from quarry Village Kunino, Municipality Roman, Region Vratsa

Natural stone slabs for internal and external use as floor and stair finishes

Reaction to fire	Class A1
Flexural strength under concentrated load:	
– minimum expected value	6,6 MPa
– mean strength	8,2 MPa
– standard deviation of the mean	0,3 MPa
Thermal properties:	
– apparent density	2280 kg/m3
– thermal conductivity	1,80 W/m.K
Abrasion resistance:	
– with wide wheel abrasion machine	NPD
– with Böhme tester	3078 mm3
Slip/skid resistance	
– SRV dry	80,9
– SRV wet	78,5
Resistance to ageing by thermal shock:	
– mass loss	Without mass loss
– change of dynamic modulus of elasticity	≤ 7 %
Freeze/thaw resistance.	
Reduction of flexural strength under concentrated load:	
– after 40 cycles	2,3 %
– after 48 cycles	NPD