

## DECLARATION OF PERFORMANCE

Under the CPR EU 305/2011  
No. 011 TK Bardoline Pro Opera

1. Unique identification code of the product-type:

**Bitumen Shingles 4X2**

2 Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

**Bardoline Pro Opera, Master**

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

**For roof and external wall covering.**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

**Onduline Avrasya İnşaat Malzemeleri San. Ve Tic. A.Ş.  
Değirmen Sokak Nida Kule No:12 Kat 8  
34 742 Kozyatağı / Kadıköy / İstanbul - TURKEY  
Tel : + 90 216 384 16 00 Fax : + 90 216 384 16 10  
www.onduline.com.tr**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

**Not Applicable**

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

**System 4**

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

**EN 544:2011**

8. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Mechanical resistance		EN544:2011
Tensile strength(width)	>800 N/50 mm	
Tensile strength(height)	>600 N/50 mm	
Nails shank tear resistance	>150 N	
Reaction to fire	E	
External fire performance	B roof t1	
Water permeability	Bitumen $\geq 1500\text{g/m}^2$	
Dimensional variation	MDV $\pm 3$ mm	
Durability of mechanical resistance	pass	
Durability of water permeability:		
- Flow resistance at el.temperature	<1 mm	
- Adhesion of the protective finishing	<0.5g	
- Water absorption	<1%	
Resistance to fixing	>150 N	
Dangerous substances	NPD	

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.  
Signed for and on behalf of the manufacturer by:

**Fulya ÖZGÜL KOÇAK**  
Deputy General Manager

Istanbul , 01/12/15 rev.0

