

EC-Declaration of Conformity



EN 13707

I, the undersigned, the legal representative of

Bitufa Waterproofing B.V
Vlijtweg 4
8191JP, Wapenveld
The Netherlands

Hereby declare that the product Flexoper N meets the requirements of the following EC Directive:

EN 13707

**“Flexible sheets for waterproofing – Reinforced bitumen sheets
for roof waterproofing”**

In conformity with the standard EN 13707, the initial type test, which on subject to a certification by a notified laboratory, has been carried out by:

BDA Keuringsinstituut B.V



Bitufa Waterproofing B.V.

Roeland van Delden Msc.
CEO

19-11-2010



EN 13707

Technical Documentation

- **Product trade name:** Flexoper N
- **Harmonized technical specification:** EN 13707:2004
- **Manufacturer:** Bitufa Waterproofing B.V.
- **Product description:** 1 m x 5 m x 5,5 mm; SBS modified bitumen sheet (used as single layer) with a macro-perforated glass weft bottom, perforated foil, kirson, and top side finished with grey slates or sand. This product also contains overlaps on the length and the width.
- **Product application:** by torch
- **General conditions for product application, storage and transport:**
 1. The rolls should be protected against moisture and exposure to sunlight.
 2. The rolls shouldn't be stored near a source of heat.
 3. The rolls should be stored upright.
- **Technical approvals:**



- **Quality standards:** Bitufa Waterproofing B.V is approved to ISO 9001:2008 by an internationally recognized Accreditation body.



EN 13707

Technical Datasheet

Characteristic	Test method	Units	Expression of result	Value or statement
Water tightness to liquid water	EN 1928	-	Pass	Pass
Tensile properties:				
Maximum tensile force				
Length direction	EN 12311-1	N/50 mm	MDV	750 ± 150
Width direction	EN 12311-1	N/50 mm	MDV	750 ± 150
elongation (both directions)	EN 12311-1	%	MDV	30 ± 15
Durability of watertightness against artificial ageing	EN 1296 and EN 1931	-	Pass	Pass
Resistance to tear (nail shank)	EN 12310-1	N	MDV	800 ± 100
Joint strength	EN 12317-1	N/50 mm	MDV	550 ± 100
Impact resistance:				
Aluminium	EN 12691	mm	MLV	700
EPS 150	EN 12691	mm	MLV	2000
Low temperature flexibility	EN 1109	°C	MLV	-20
Flow Resistance at elevated temperature	EN 1110	°C	MLV	95
Water vapour transmission	EN 1931		MDV	μ = 20.000
Reaction to fire	EN 13501-1	-	Euroclass	F
Length	EN 1848-1	m	MLV	5,0
Width	EN 1848-1	m	MLV	1,0
Thickness	EN 1849-1	mm	MDV	5,5 ± 0,3
Mass	EN 1949-1	kg/m ²	MDV	5,6 ± 0,56
Straightness	EN 1848-1	-	Pass	Pass
Visible Defects	EN 1850-1	-	Visible defects	no visible defects
Loss of granules	EN 12039	%	MDV	15 ± 15

MLV = Manufacturers Limiting Value
MDV = Manufacturers Declared Value