



■ **Rock Shield DK-PROTEC® 1700-2700**

Rock sheet for additional mechanical protection of anticorrosive coatings of gas and oil pipelines from physical damage during their laying and transportation.



■ **COMPOSITION**

The basis is fiberglass, synthetic non-woven material.
Impregnation - environmentally friendly thermoplastic resin.

■ **SPECIAL ADVANTAGES**

High mechanical strength.
Amortization and load distribution.
Resistant to rotting in aggressive soils.
Ease of application.
Supplied ready-made.

■ **STRENGTH PROPERTIES**

Fiberglass provides strength and rigidity to the structure in tension, tear, bending, puncture.
The non-woven fabric provides shock absorption when laying the pipeline in difficult soils, which have inclusions of stones, pebbles and other things.

■ **AREA OF APPLICATION**



Rock Shield DK-PROTEC® - additional mechanical protection of anticorrosive coatings of gas and oil pipelines from physical damage when laying in difficult soils containing inclusions of stones, pebbles and others.

Rock Shield DK-PROTEC® - protects the pipeline during operation from the effects of stony ground in case of its possible displacement.

Rock Shield DK-PROTEC® - protects insulated piping surfaces during transport and installation.

■ **RELATED PRODUCTS**

Repairing System DK-PROTEC® (filling mastic / fusible rod / repair patch) - a system for repairing damage to anticorrosive coatings of pipelines.
Repairing System DK-PROTEC® can be used without any special tools as a quick solution for repairing damage to corrosion resistant coatings of pipelines.

■ PRODUCT PROPERTIES

Properties	Unit	Rock Shield DK-PROTEC®1700-2700
Appearance	---	Absence of through damage, delamination, bubbles, folds that cannot be straightened, untreated areas.
Width*	mm	1260±10
Length	mm	1260 - 4700±10
Thickness	mm	3±1
Surface density	g/m ²	1700 - 2700
Shock resistance ** at + 23 ° C	J	≥ 50
Breaking load in longitudinal direction at + 23 ° C	kN	≥ 4.4
Breaking load in the transverse direction at + 23 ° C	kN	≥ 4.0
Elongation at break	%	≤ 10
Resistance to aggressive environments ***	%	≥ 90
Abrasion resistance ***	%	≥ 90
Flexibility	---	no damage
Transient resistance	Ohm x m ²	≤ 150
Frost resistance ***	%	≥ 10
Water absorption	%	≤ 7
Resistant to heat aging ***	%	≥ 90
Resistance to static punching shear	---	no water on the sample surface
Life time	years	≥ 30

* On pipe bends, a width of 400-600 mm is allowed.

** When backfilled with soil with a specific gravity of 2650 kg / m³, a transverse dimension of no more than 100 mm, from a height of no more than 3 m.

*** The breaking load value in relation to the standardized value.

Other sizes and tolerances available on request

■ ORDERING INFORMATION

Rock Shield DK-PROTEC®1700-2700 supplied in sheets, the set includes a tape for mounting, a tape tie device.

Outer diameter of the pipeline, mm	Sheet length *, mm	Sheet weight**, kg	Mounting tape length ***, l.m..
325	1260	3.5	235
377	1300	3.6	260
426	1580	4.4	302
530	1900	5.2	370
630	2220	6.2	437
720	2500	6.9	486
820	2820	7.8	562
1020	3440	9.5	695
1220	4060	11.3	827
1420	4700	13.0	960

* Length increase is allowed ≤ 50mm.

** With a sheet thickness of 3 mm

***Taking into account the technological reserve.

Other lengths and widths available on request

■ PACKAGING, STORAGE AND TRANSPORTATION

Packaging: polymer, packaging is not returned after use.

Storage: in original packaging, in a dry place without load in a horizontal position, in warehouses, open areas under a canopy, protected from sunlight and precipitation. When storing Rock Shield DK-PROTEC® and transporting it to the work site, store and transport in an upright position, no more than five rows. Transportation and storage at a distance of at least 1 m from heat sources.

Shelf life in original packaging is at least 24 months from the date of manufacture.

Storage temperature: ≤ +50°C (+122°F)

Transportation: on pallets, in original packaging, by all means of transport.

■ Consult with us for specific projects or unique applications

The product information shown here our application recommendations and other product related documents are made for your convenience only. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith.

All information contained in this document is to be used as a guide and does not constitute a warranty of specification.

The information contained in the document is subject to change without notice.

For this reason, no liability can be accepted for inaccurate advice or any failure to provide advice.

The user is responsible for checking the applications of the product and verifying its suitability for the intended use.

This is the original translation of product information from the Polish language.

In case of any discrepancy or any dispute arising on the interpretation of this product information, the Polish text of the respective Polish product information, which is available at www.dkd-korporation.com, shall be decisive.

The legal relationship shall be governed by Polish law.



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