



# SpecialRADONBarrier

A specialized, 6-layer floor underlay, tested at the Institute of Nuclear Physics of the Polish Academy of Sciences and Aalborg Universitet København, equipped with an integrated radon barrier with efficiency far exceeding European standards, including "SBI 2016:21, Lufttæthed af materialer til radonsikring – Testmetode". It serves to protect residential buildings against penetration of radioactive RADON gas through the floating floor layers. Compliant with all the high EPLF requirements for floors loaded with heavy traffic. This product is a part of Anti-RADON System and requires Special RADON Tape to ensure its full functionality.

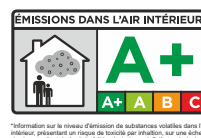
## Product highlights

- Closed cells HDPE foam used for installation of laminated and engineered floating floors.
- Suitable for floor heating.
- For high demands on pressure stability under heavy loaded floors.
- Integrated 6-layer moisture and RADON barrier with overlap and butyl tape for fast installation and perfect protection against RADON.
- Radon Transmittance (P) < 6,8\*10<sup>-11</sup> m/s; Radon Resistance (Z) > 1,5\*10<sup>-10</sup> s/m.
- Radon Permeability (k) < 1,4\*10<sup>-13</sup> m<sup>2</sup>/s.
- Tested according to "SBI 2016:21, Lufttæthed af materialer til radonsikring – Testmetode", Test Report SBI 2018:06.
- Can be laid easily and quickly, since it is always flat and has a slippery surface.
- Very high material density.
- 100% recyclable, CFC and HCFC free.
- Ecologically friendly.

Symbol	Category	Value/Unit	Test methods
T	Thickness	2 mm ±10%	EN823
L	Length	15 000 mm ±4%	EN822
W	Width	1 000 mm ±2%	EN822
AW	Area weight	0,47 kg/m <sup>2</sup> ±10%	EN ISO 23997:2012
QW	Density	100 kg/m <sup>3</sup> ±10%	EN ISO 23997:2012
(P)	Radon Transmittance	< 6,8*10 <sup>-11</sup> m/s	LER IFJ PAN (RG ed. 4)
(Z)	Radon Resistance	> 1,5*10 <sup>-10</sup> s/m	LER IFJ PAN (RG ed. 4)
(k)	Radon Permeability	< 1,4*10 <sup>-13</sup> m <sup>2</sup> /s	LER IFJ PAN (RG ed. 4)
q <sub>50</sub>	Air flow (30Pa pressure diff.)	16,6 l/min	SBI 2016:21
RWS	Reflected walking sound	12% ±2	IHD-W431
IS	Impact sound reduction	20 dB ±2	EN 16354:2018
CS	Temporary loads resistance	60 kPa ±10	EN 16354:2018
CC	Static loads (furniture) resistance	>25 kPa	EN 16354:2018
DL	Dynamic loads (walking) resistance	>100 000 cycles	EN 16354:2018
PC	Local unevenness compensation	1,10 mm ±10%	EN 16354:2018
TR	Thermal insulation	0,040 m <sup>2</sup> /K/W ±0,003	EN 16354:2018
SD	Protection against moisture	>100 m	EN 16354:2018
RLB	Protection against falling objects	1 200 mm ±50	EN 16354:2018
RTF	Reaction to fire	---	EN-ISO11925-2, PN-EN13501-1



Overlap butyl tape parameter	Test method	Value	Unit
Length	PN-EN 1848-2	105 -0/+0,2	m
Width	PN-EN 1848-2	30 ±2,0	mm
Thickness of the butyl layer [mm]	PN-EN 1848-2	0,7 ±0,1	mm
Color	---	black	
Density at 25°C	PN-EN ISO 1183-1	1,73 ±0,05	g/cm <sup>3</sup>
Adhesion	PN-EN 1939	≥9,0	N/10mm
Working temperatures	---	from -40°C to +90°C	
Application temperatures	---	from +5°C to +40°C	
Resistance to weather conditions	---	minimum 3 months	



\*value delivered from similar product test results



# SpecialRADONBarrier

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated Box
Quantity	1 Pc.	---	20 rolls
Area	15m <sup>2</sup>	---	300m <sup>2</sup>
Weight	7,0kg ± 10%	---	140,0kg ± 10%

### General information

All data are based on our experience and careful investigations. The diversity of the materials used, as well as the different construction site and processing conditions, can not be examined or influenced by us in detail. The quality and function therefore depends on the expert site evaluation and product use. In case of doubt, carry out your own tests or seek advice on our application technology. When processing, please observe the rules of technology as well as the manufacturing specifications of the building materials involved and constantly changing state of technology.

### Storage

Approx. 1 year, protecting from direct sunlight or other weather influences.

### Application

Unroll underlayment over subfloor with vapor barrier layer facing up and individual rows butting to one another and seal the joints using integrated overlapping and butyl tape. Please follow installation manual of Special Anti-RADON System directly. Product information is subject to change without notice. Please visit our webpage for updated product informations.