



® TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.
Technical and Test Institute for Construction Prague, SOE

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Inspection Body • Prosecká 811/76a, Prosek, 190 00 Praha 9, Czech Republic

Certifikační orgán
Pobočka 0100 – Praha

PROTOKOL

o výsledku certifikace produktu

certifikační schéma 1a podle ČSN EN ISO/IEC 17067 zahrnující zkoušení vzorků produktu

č. 010-048701

Název produktu:

System podtlakového kotvení PROTAN
typ / varianta:-

žadatel:

IZOLPROTAN, s. r.o.

IČ: 27504115
Adresa: Čestice 159, 517 41 Kostelec nad Orlicí
Výrobce: Protan A/S,
Adresa: N-3002 Drammen, Brakerøya, Norsko
Zakázka: Z010240175

Počet stran protokolu včetně strany titulní: 4 Počet stran příloh: 7

Osoba odpovědná za obsah tohoto protokolu:

Praha, 6. listopadu 2024

Razítko certifikačního orgánu




Ing. Iveta Jiroutová
vedoucí posuzovatel

Upozornění: Bez písemného souhlasu zástupce vedoucího certifikačního orgánu se tento protokol nesmí reprodukovat jinak, než celý.

Technický a zkušební ústav stavební Praha, s. p., Pobočka 0100-Praha, Prosecká 811/76a, 190 00 Praha, Česká republika
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Všeobecné údaje

1.1 Údaje o žadateli

- IZOLPROTAN, s. r.o.
Čestice 159, 517 41 Kostelec nad Orlicí
IČ 27504115

1.2 Údaje o produktu

- Systém podtlakového kotvení PROTAN
- Výrobce Protan AS, Postbox 420 Brakerøya, N-3002 Drammen, Norsko
- Systém slouží ke kotvení střešních izolačních fólií střech o sklonu min 1:40, pomocí vakua. Provedení a skladba střechy se v hlavních rysech neodlišuje od obvyklých řešení až na skutečnost, že zde není uplatněno mechanické kotvení krytiny v ploše střechy, ať již kotvami ve spojích nebo stabilizačním násypem na izolaci. Namísto toho je hydroizolace těsně ukotvena po obvodu střechy a zároveň musí být vyloučena možnost přísátí vzduchu z interiéru budovy do souvrství střechy. V navržených místech rohů střechy a podél hran jsou osazeny v hydroizolaci speciální ventily, které při působení větru na střechu zaručují podtlak pod krytinou a tím je zabráněno vzdouvání krytiny. Návrh podtlakově kotvené střechy musí vycházet od firmy IZOLPROTAN, s.r.o. Instalace systému smí provádět jen písemně pověřená firma firmou IZOLPROTAN, s. r.o.

Součástí systému jsou mimo vlastní krytiny Protan SE 1,6 i kotvicí obvodové profily s antikorozií ochranou, doplněné těsnicí páskou a vakuové ventily. Výrobek je zařazen dle přílohy osvědčení o akreditaci certifikačního orgánu pod poř. č. 28*, Střešní krytiny, střešní světlíky, střešní okna a doplňkové výrobky, střešní sestavy včetně příslušenství.

1.3 Seznam podkladů předaných žadatelem pro certifikaci produktu

- Pověření společnosti Protan A/S, v zastoupení paní Hege Gunnerud z 18.2.2008, pro firmu IZOLPROTAN s.r.o., zastoupenou pány Jaromírem a Michalem Jandíkem, k distribuci výrobků společností Protan, A/S v České republice a k certifikaci v TZÚS systému podtlakového kotvení Protan podle Sintef Technical Approval no. 2281. Dále je potvrzeno, že pánové Jaromír a Michal Jandíkovi mají nezbytné zkušenosti pro posouzení vhodnosti a aplikace technických podmínek pro instalaci podtlakového systému.
- SINTEF Technical Approval TG 2281, Protan vacuum Roofing System, vydal SINTEF Certification, Norwegian member of EOTA and European Union of Agrément, UEAtc, NO 0314 Oslo, poprvé vydáno 20.6.2001, revidováno 26.08.2024 s platností do 01.02.2029
- SINTEF Technical Approval TG 2010, Protan SE, T, SE-L, SE titanium+ and EX roofing membranes, vydal SINTEF Certification, Norwegian member of EOTA and European Union of Agrément, UEAtc, NO 0314 Oslo, poprvé vydáno 15.2. 2007, revidováno 26.08.2024a doplněno 15.10.2024 s platností do 01.02.2029
- NT BUILD 307, ROOF COVERINGS: Wind and Load Resistance, vydal NORDTEST, Terniikantie 12, FIN -02150 Espoo, Finland, ISSIN 0283-7153
- Prohlášení o vlastnostech Nr. DoP315-SE16-E z 1.8.2020 pro folie PROTAN SE 1,6, vydal Protan AS, Norsko
- Protokol o zkoušce zatížení větrem systému PROTAN podtlakového kotvení, vydal BYGGFORSK, Norges Byggforskningstitt, SINTEF Building and Infrastructure v Trondheim pod číslem 08348, dne 30.6.2000

- Protokol o zkoušce zatížení větrem systému PROTAN podtlakového kotvení, vydal BBA, UK, pod číslem 59649, dne 28.2.2017
- Výrobní list ventilů pro podtlakové kotvení střech Protan č. 39006120 z 17.9.2007
- Výrobní list EJOT upevňovací profil FP, EJOT CZ, s.r.o.
- TL, Certifikát, prohlášení o shodě pro výrobek PVC Těsnící páska TN 545, distributor Tremco CPG s.r.o.
- Na základě prohlášení žadatele neexistuje žádný důvod k prověření vlivů stavebních produktů ve vestavěném stavu, zda jsou splněny požadavky ochrany zdraví a životního prostředí.

1.4 Seznam ostatních podkladů použitých při certifikaci produktu

- Protokol o výsledku certifikace produktu Systém podtlakového kotvení PROTAN č. 010-041273, vydal TZÚS Praha, s.p. 24.5.2019
- Protokol o výsledku certifikace produktu Systém podtlakového kotvení PROTAN č. 010-036599, vydal TZÚS Praha, s.p. 19.5.2016
- Protokol o výsledku certifikace výrobku Systém podtlakového kotvení PROTAN č. 010-031330, vydal TZÚS Praha, s.p.22.3.2013
- Protokol o výsledku certifikace výrobku Systém podtlakového kotvení PROTAN č. 010-022866, vydal TZÚS Praha, s.p.28.3.2008

1.5 Technická specifikace, technické předpisy vztahující se na certifikaci produktu (v platném znění)

- SINTEF Technical Approval TG 2281, Protan vacuum Roofing System, vydal SINTEF Building and Infrastructure, Norwegian member of EOTA and European Union od agrément, UEAtc, NO 0314 Oslo, poprvé vydáno 20.6.2001, revidováno 26.08.2024 s platností do 01.02.2029
- NT BUILD 307, ROOF COVERINGS: Wind and Load Resistance, vydal NORDTEST, Terniikantie 12, FIN -02150 Espoo, Finland, ISSIN 0283-7153
- ČSN EN 1991 -1-4 ed.2 Eurokód 1: Zatížení konstrukcí – Část 1-4 Obecná zatížení - Zatížení větrem
- ČSN EN 1991-1-4 NA ed. A: 2013 National Annex - Eurocode 1: Actions on structures - Part 1-4: General actions - Wind loads
- ČSN 73 1901 Navrhování střech - Základní ustanovení

1.6 Informace o předchozí certifikaci produktu

Jedná se o opakovanou certifikaci výrobku. Systém podtlakového kotvení byl již certifikován v letech 2008, 2013, 2016 a 2019.

2. Posouzení produktu

2.1 Způsob a rozsah posouzení, technické požadavky

- sledované vlastnosti (dle podkladů uvedených v bodě 1.5)
- stabilita krytiny

2.2 Přehled protokolů o zkouškách a posouzeních:

- Protokol o zkoušce zatížení větrem systému PROTAN podtlakového kotvení, vydal BYGGFORSK, Norges Byggeforskningsinstitutt, SINTEF Building and Infrastructure v Trondheim pod číslem 08348, ze dne 30.6.2000.

2.3 Vyhodnocení výsledků zkoušek a posouzení produktu

Při uvážení přenositelnosti výsledků zkoušek bylo přihlédnuto k okolnosti, že Česká republika, stejně tak Norsko, jsou členy CEN/CENELEC a podle jeho pravidel mají zavedenu shodnou normu, EN 1991 -1-4, Eurokód 1, Zatížení větrem. Dále přírodní podmínky České republiky zahrnují menší škálu kategorií terénů oproti přímořskému Norsku a celkově jsou tak větrné podmínky České republiky méně náročné.

Sledovaná vlastnost	Protokol o zkoušce ¹⁾	Zkušební postup	Výsledek zkoušky ²⁾	Požadovaná/ deklarovaná úroveň ³⁾	Vyhodnocení
1	2	3	4	5	6
Stabilita krytiny	BYGGFORSK, Norges Byggeforskningsinstitutt č. 08348	NT BUILD 307	Pouze lokální omezené vzduť (galloping, flutter)	Lokální vzduť musí být omezené a nesmí negativně působit na funkci krytiny, resp. způsobit její poškození	vyhovuje

3. Závěr

- Vzorek produktu odpovídá ve sledovaných vlastnostech požadavkům technické specifikace a technických předpisů uvedených v bodě 1.5
- Zjištění a závěry uvedené v tomto protokolu platí za předpokladu, že nedojde ke změně skutečností, za kterých bylo posouzení shody provedeno a pokud tato změna může ovlivnit vlastnosti výrobků (např. změna technických předpisů, technické specifikace, výrobní technologie, vstupních surovin a výrobního zařízení).

Přílohy

- 1) SINTEF Technical Approval TG 2281, Protan vacuum Roofing System, vydal SINTEF Building and Infrastructure, Norwegian member of EOTA and European Union od agrément, UEAtc, NO 0314 Oslo, poprvé vydáno 20.6.2001,, revidováno 26.08.2024 s platností do 01.02.2029 (5 stran)
- 2) Prohlášení o vlastnostech Nr. DoP315-SE16-E z 1.8.2020 pro folie PROTAN SE 1,6, vydal Protan AS, Norsko (2 strany)

SINTEF Technical Approval

TG 2281

SINTEF confirms that

Protan Vacuum Roofing System

has been found to be fit for use in Norway and to meet the provisions regarding product documentation given in the regulation relating to the marketing of products for construction works (DOK) and regulations on technical requirements for building works (TEK), with the properties, fields of application and conditions for use as stated in this document



1. Holder of the approval

Protan AS
 P.O. Box 420
 NO 3002 DRAMMEN
www.protan.com

2. Product description

Protan Vacuum Roofing System is based on the principle of airtight fastening of the membrane to parapet and penetrations in the roof construction. Essential for the function is an airtight layer in combination with a supporting structure in the inner part of the construction. Wind blowing across the roof surface creates, with help of the roofing membrane's built-in valves, a negative pressure between the airtight layer and the roofing membrane. The negative pressure causes the membrane to be held down against the substrate, and the wind load is transferred to the supporting structures.

Protan Vacuum Roofing System consists of a Protan roofing membrane in combination with Protan Steel Grip Bar, 3209 T-list Black sealing tape and Protan Vacuum Vent.

Protan roofing membrane

Roofing membranes to be used for Protan Vacuum Roofing System are polyester reinforced roofing membranes like Protan SE and EX. The roofing membranes are documented in SINTEF Technical Approval No. 2010.

Protan Steel Grip Bar

Protan Steel Grip Bars are available in two variants. Principle for both is shown in figure 2. The bars are made from galvanized steel.

The standard variant of the bars is shown in figure 2. Protan Grip steel bar has in addition imprints with approximately 40 mm distance to increase the friction between steel bar and membrane/sealing. The primary task of Protan's Steel bars is clamping of the membrane to other building parts to ensure air tightness in the roofing system.

Protan Vacuum Vent

Protan Vacuum Vent is a one-way valve with an external shell of aluminium and an internal ducting system of expanded polystyrene (EPS); see figure 3. The closing mechanism is an EPDM membrane attached on top of the ducting system of EPS.

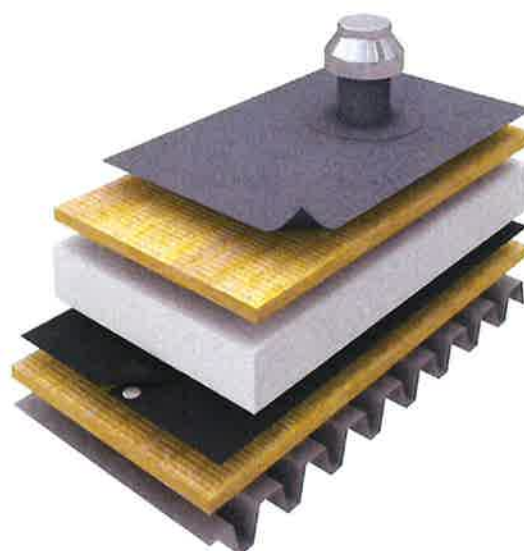


Fig. 1: Protan AS
Principle of Protan Vacuum Roofing System. The membrane is laid with airtight seals along edges and penetrations.

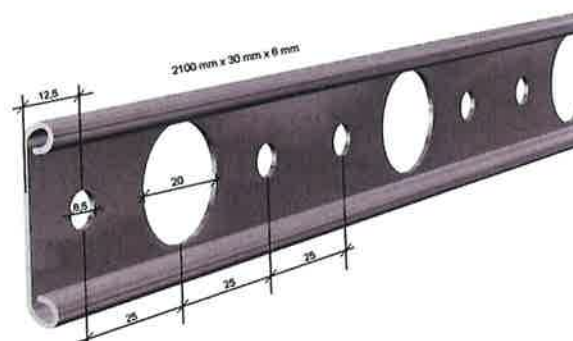


Fig. 2: Protan AS
Protan Steel Grip Bars are supplied in a standard length of 2.1 m.

SINTEF is the Norwegian member of European Organisation for Technical Assessment, EOTA, and European Union of Agrément, UEAtc

3209 T-list Black sealing tape

3209 T-list Black sealing tape is made of PVC with a closed cell structure and is delivered as a supplementary product for the vacuum system.

Supplementary products which are not a part of the system

An airtight layer needs to be part of the construction. Materials and possible supplementary products used for tightening of the airtight layer are not part of this approval. If supplementary products, such as for instance sealing compounds, are in contact with Protan's products, Protan's recommendations regarding chemical compatibility and durability must be followed.

3. Fields of application

Protan Vacuum Roofing System can be used for new roofing and re-roofing on existing plastic-, rubber- and bituminous roofing membranes, with and without additional insulation. It is a presumption that good air tightness can be established to prevent leakage both from outside and inside.

Roofs must have adequate slope to drain water from rain and melting snow. SINTEF Building and Infrastructure recommends that all roofs have an inclination of minimum 1:40.

4. Properties

Product properties

Product properties for Protan SE and EX are shown in SINTEF Technical Approval No. 2010, table 2.

Properties related to fire

Information regarding fire classification according to EN 13501-5 for Protan SE and Protan EX roofing membranes is given in SINTEF Technical Approval no. 2010, clause 4 *Product properties*, section *Properties related to fire*.

Wind load capacity

The wind load capacity for the roofing system is determined by the airtight layer and the construction it is anchored to. The airtight layer and the underlying construction must be designed for the relevant wind loads.

5. Environmental aspects

Substances hazardous to health and environment

The products contain no hazardous substances with priority in quantities that pose any increased risk for human health and environment. Chemicals with priority include CMR, PBT or vPvB substances.

Effect on soil, surface water and ground water

The leaching properties of the products are evaluated to have no negative effects on soil or water.

Waste treatment/recycling

The products shall be sorted as iron or other metals and residual waste. The products shall be delivered to an authorized waste treatment plant for material recycling or be sent to landfill.

Environmental declaration

An environmental declaration (EPD) has been worked out according to EN 15804 for Protan EX, Protan SE and Protan Titanium. For complete documentation see www.epd-norge.no / www.ibu-epd.com, EPD no:

- NEPD-2036-909-NO, Protan SE 1,2
- NEPD-1920-845-NO, Protan SE 1,6
- NEPD-2051-921-NO, Protan EX 1,6

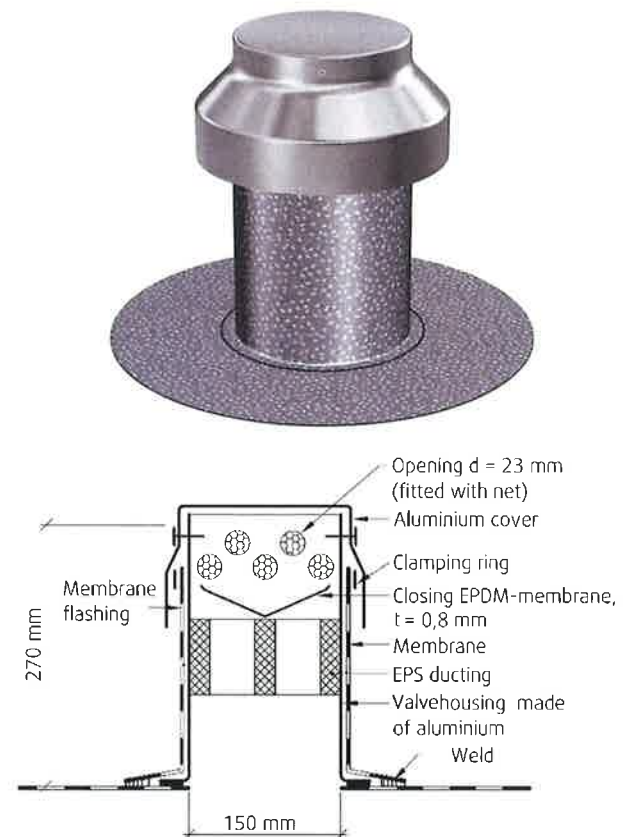


Fig. 3: Protan AS
Protan Vacuum-Vent

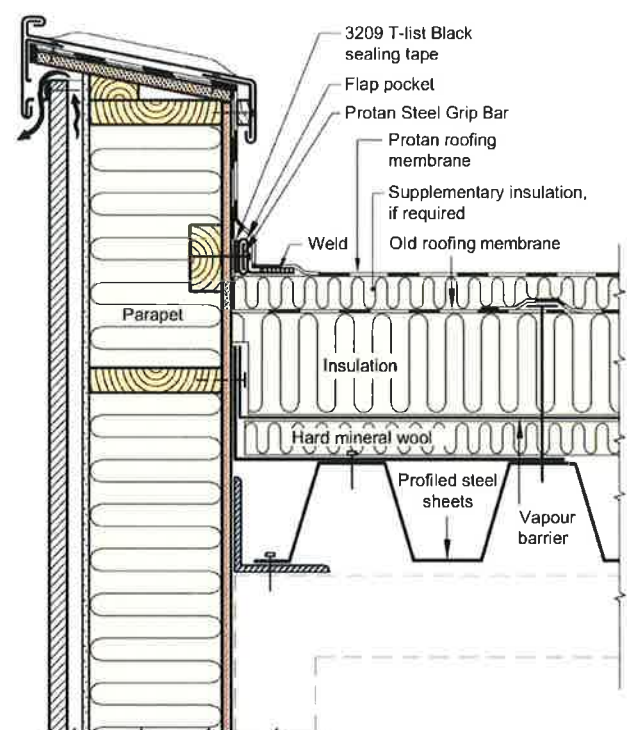


Fig. 4
Sealing principle for edges on a roof with supporting profiled steel plates. Reroofing.

6. Special conditions for use and installation

Design considerations

Evaluation of suitability of Protan Vacuum Roofing System at the actual roof and the dimensioning must be done in cooperation with Protan AS.

The dimensioning mainly involves the number and positioning of valves, and, if required, calculation of the substrate's fastening capacity. The roofing system shall only be installed by roofers who have executed Protan's roofing school and a special training program for the vacuum system. On all roofs with Protan Vacuum Roofing System, the final control shall be reported.

Installation

The joints are welded with hot air. TPF Informerer no. 6 *Branntekniske løsninger for kompakte tak og terrasser* describes which roofing methods can be used on various roof structures. When roofing with hot air or open flame, all combustible insulation must in principle be protected with non-combustible insulation. However, TPF Informerer no. 6 describes exceptions for hot air welding of roofing membranes with fire class B_{ROOF}(t2).

The membrane shall be installed in accordance with Protan's guidelines for design consideration and installation, and in accordance with the principles shown in SINTEF Building Research Design Guide no.:

- 525.207 *Kompakte tak*
- 544.202 *Takfolie. Egenskaper og tekking*
- 544.204 *Tekking med asfalttakbelegg eller takfolie. Detaljløsninger*

plus information sheets issued by Takprodusentenes Forskningsgruppe (TPF), see www.tpf-info.org:

- TPF informerer nr. 6 *Branntekniske løsninger for kompakte tak og terrasser*
- TPF informerer nr. 13 *Tak under oppføring – forholdsregler og tiltak ved bruk*

Substrate and joints

A basic requirement for the vacuum system to work as intended, is that the roofing membrane, the airtight layer and connections of the membrane are airtight.

The substrate for the new membrane may be a lightweight roof structure where the existing roofing (airtight layer) can act as a vapour barrier in the finished roof. The existing roofing membrane must be mechanically fixed, with welded, airtight joints (see figure 1).

The substrate for the new membrane may also be solid concrete roof deck (see figure 5 - 7) or other roofs with an existing roofing membrane that can act as an airtight layer.

Where fire technical class B_{ROOF} (t2) is required for the roofing membrane, the membranes can only be laid on substrates as specified in TG 2010, clause 4 *Properties*, section *Properties related to fire*.

Substrates of combustible insulation, such as EPS, must be covered or divided into areas, and replaced with non-combustible insulation around bushings and adjacent constructions, such as parapets and walls, according to pre-accepted performances given in the guidance to *Forskrift om tekniske krav til byggverk § 11-9* and in TPF informerer nr. 6 *Branntekniske løsninger for kompakte tak og terrasser*.

When re-roofing, on old bituminous roofing membrane laid on insulation of EPS, the membrane in the old roofing must fulfil the requirements of class B_{ROOF} (t2) according to EN 13501-5 on EPS. When the membrane is installed on old bituminous roofing without additional insulation, Protan SE with a separation layer or Protan EX shall be used.

When the membranes are installed on old bituminous roofing membrane, on old and rigid PVC roofing or directly on EPS or XPS insulation, a separate migration barrier/separation layer shall be used in accordance with the manufacturer's installation manual. See SINTEF Building Research Design Guide no. 544.202 *Takfolie. Egenskaper og tekking*. for additional requirements for migration barriers and protective layers.

Protan EX is recommended for installation on wood-based roof sheathing.

Inspection during reroofing

In connection with reroofing, the existing membrane must be inspected for leakage and if there are any weaknesses in the existing fastening. The membrane/fastening must be repaired if necessary. The membrane is normally inspected visually using non-destructive equipment. In case of doubt, parts of the roof can be opened to investigate the airtightness and the condition of the existing fastening.

Sealing at edges and penetrations

All edges and penetrations in the membrane must be performed with airtight construction details, using Protan Steel Grip Bars, Airtight seal and supplementary products. The steel bar shall be screwed to the substrate.

Figure 4 – 7 show examples of sealing principles at the connections with an external wall or at a top edge/parapet. The distance between fasteners in the steel bars must be verified through wind load calculations/analysis but shall never be greater than 150 mm to ensure an airtight clamp towards the substrate. Figure 8 shows sealing at a roof outlet.

Positioning of valves

Valves are normally placed in corners and the perimeter area along free edges. The following general instructions are applicable when positioning and installing valves, see figure 9:

- two valves in external corners
- two valves in internal corners
- maximum distance between valves along free edges is 15 m
- for pitched roofs with fall > 1:6, valves should be used at the roof ridge, both close to gables and on the centre section.

Traffic on the roof

Special precautionary measures should be taken to protect the roofing membrane if the roof is expected to have more traffic than is necessary for inspection and maintenance purposes only.

Maintenance and inspection

Before starting any welding, as a part of repair work, the roofing membrane must be cleaned locally, in accordance with the vendor's installation manual. An appropriate cleaning agent must be used.

The roof must be checked at regular intervals for the presence of blisters. Durable blisters may indicate a reduced function of the vacuum system, due to of a loss of suction, which in turn may indicate leaks in the airtight layer, the roofing membrane or in the valves.

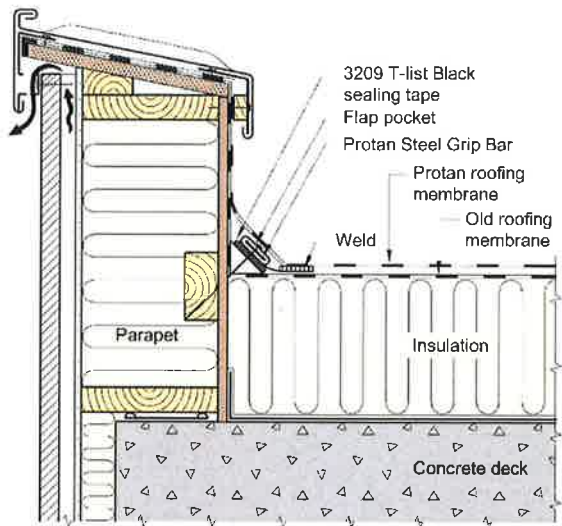


Fig. 5
Sealing principle for edges on roof with use of triangle lath. Reroofing.

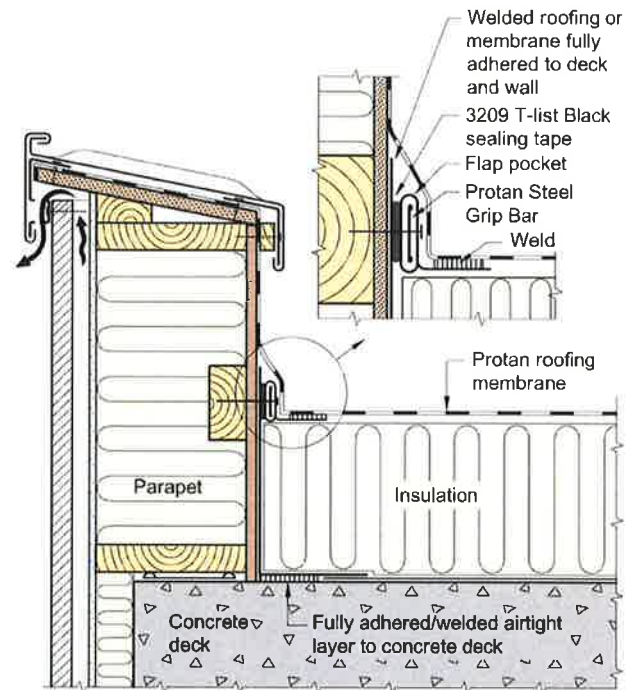


Fig. 7
Sealing principle for edges on a concrete roof deck. New building.

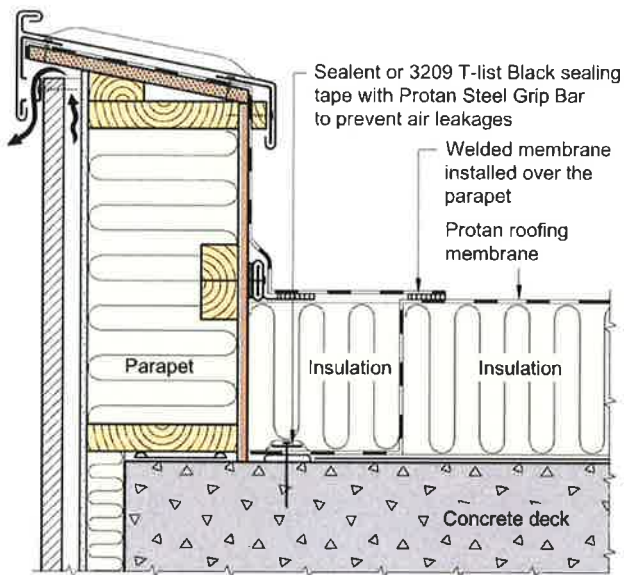


Fig. 6
Sealing principle for edges on a roof with an airtight concrete deck. Suitable if movements are expected between the wall and the deck. New building.

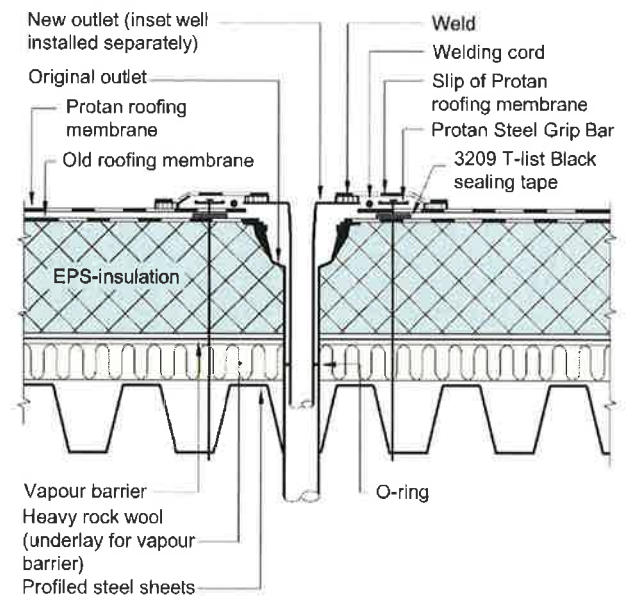


Fig. 8
Principle for sealing at an outlet. Reroofing.

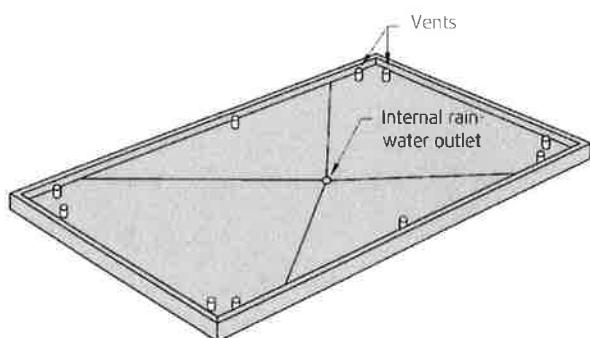


Fig.9
Typical placing of valves. Distances to edges, to corners and between valves must be considered for each project and calculated by Protan AS.

7. Factory production control

The membranes are produced by Protan AS, Baches vei 1, 3413 Lier, Norway.

Protan Steel Grip Bar is produced in Poland for Protan AS.
Protan Vacuum Vent is produced in China for Protan AS.
3209 T-list Black sealing tape is produced in England for Protan AS.

The holder of the approval is responsible for the factory production control in order to ensure that the products are produced in accordance with the preconditions applying to this approval.

The manufacturing of the product(s) and the manufacturer's system for factory production control (FPC) is subject to continuous surveillance in accordance with the contract regarding SINTEF Technical Approval.

Protan AS has a quality management system certified according to EN ISO 9001 and an environmental management system certified according to EN ISO 14001.

8. Basis for the approval

The evaluation of the products is based on reports owned by the holder of the approval.

The evaluation of design and technical solutions are based on recommendations given in SINTEF Building Research Design Guides.

9. Marking

All pallets/packages/of roofing membranes shall be marked with the manufacturers name, product name and production number. All rolls are also marked with week number and year.

Protan Steel Grip Bar is marked with the product name, product code and batch number on the product.

Protan Vacuum Vent is marked with the product name and Protan's article number on the packaging, and with the manufacturer's product number on the foot of the product.

3209 T-list Black sealing tape is marked with vendor and the vendor's article number.

The roofing membranes are CE marked in accordance with EN 13956.

The approval mark for SINTEF Technical Approval TG 2281 may also be used.

10. Liability

The holder/manufacturer has sole product responsibility according to existing law. Claims resulting from the use of the product cannot be brought against SINTEF beyond the provisions of Norwegian Standard NS 8402

for SINTEF

Susanne Skjervø
Approval Manager

DECLARATION OF PERFORMANCE

Declaration of Performance – DoP315-SE16-E – v2020-4.0



EN13956 05 1071

DECLARATION OF PERFORMANCE

NO. DoP315-SE16-E

- | | |
|---|--|
| 1 Unique identification code of the product-type: | Protan SE1,6 |
| 2 Identification of the construction product in accordance to article 11(4): | The rolls are labelled individually with an unique serial number, NN/DD (production number/year) embossed directly on the membrane. |
| 3 Intended use of the construction product : | Polyester reinforced flexible PVC-membrane for roofing and waterproofing |
| 4 Contact address of the manufacturer in accordance to article 11(5): | Protan AS, Baches vei 1, N-3413 Lier, Norway |
| 5 Authorised representative: | Not relevant (See 4.) |
| 6 System of assessment and verification of constancy of performance of the construction product as given in annex V: | System 2+ |
| 7 Declaration of performance for the construction product covered by a harmonised standard: | EN 13956:2012 - Annex ZA
SINTEF Building and Infrastructure, EU-Notified Body No1071 has issued EC-Certificate of Conformity 1071-CPD-1142 under System 2+, initial inspection of the manufacturing plant and factory production control, initial type testing and continuous surveillance and sampling and testing of the product. |
| 8 Construction Product covered by a European Technical Assessment: | Not relevant (See 7.) |

9. Declared performance:

Essential characteristics	Performance	EN 13956:2012
External Fire performance	F _{ROOF} (I*)	EN13501-5
Reaction to fire	Class E	EN 13501-1
Water tightness (10kPa)	Pass	EN 1928(A)
Tensile strength L/T	MLV≥1100 N/50mm	EN 12311-2(A)
Elongation L/T	MLV≥15 %	EN 12311-2(A)
Resistance to Impact	MLV≥600 mm	EN12691(A)
Resistance to static load	MLV≥20 kg	EN 12730(A)
Tear resistance L/T	MLV≥210 N/50mm	EN 12310-2
Joint peel resistance, maximum	MLV≥200 N/50mm	EN 12316-2
Joint peel resistance	Failure mode C**)	EN 12316-2
Joint shear resistance	MLV≥1000 N/50mm	EN 12317-2
Foldability at low temp	MLV≤-30 °C	EN 495-5
Exposure to UV	Pass >5000h	EN 1297
Dangerous substances	None	

*.) The external fire performance of a roof is dominated by the buildup and components not delivered by Protan AS. Due to this, the external fire performance cannot be declared in this DoP. Protan AS has tested build ups according to ENV1187, and provides fire classifications on several actual build ups according to EN 13501-5 on request or can be found at "www.Protan.com"
 **) No failure of the joint. This is the best possible joint.

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. 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: Erik Bødtker Øyno, CEO, Protan AS

Drammen, 01.08.2020
(Place and date of issue)



(Signature)



DECLARATION OF PERFORMANCE

Ecology, Health and Safety Information

A Safety Data Sheet following EC-Regulation 1907/2006, Article 31 is not needed to bring this product to the market, to transport or to use it. The product does not damage the environment when used as specified.

REACH

European Community Regulation on chemicals and their safe use: EC 1907/2006

This product is an article within the meaning of Regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. There are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).

Protan Legal Notice

The details provided in this document, especially the recommended application and utilisation for the products and their system accessories, are based on Protan's current knowledge and experience of the products when properly stored, handled and installed under normal conditions according to Protan's recommendations. A warranty in respect of merchantability or of fitness for a particular utilisation, nor any liability arising out of any legal relationship whatsoever, cannot be inferred either from this information, or from any written or verbal recommendations, due to the differences in materials, substrates and actual site conditions in practice. The user of the product is responsible for the product's suitability for the intended application. Protan reserves the right to change product specifications without notice. Additionally, Protan's current sales and delivery terms are valid and applicable for all orders.

It is necessary for the user to always refer to the latest version of the relevant Product Data Sheet, which can be requested directly from Protan. All information provided, as well as technical and drawing data, complies with current technical standards and is based on Protan's knowledge and experience. In addition, national standards and regulations must be observed where appropriate.

FOR FURTHER INFORMATION:

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