

## Report

### Protan SE

Order number: 0262-V-08/1 Ref.: KVZ/JV

**Principal** : INTRON Certificatie B.V.  
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**Contact person** : C. Klomp

**Reference principal** : KOMO-attest-met-productcertificaat CTG-335

**Subject** : product inspection in the framework of certification

**Date of order** : 2008.09.16

**Date of report** : 2008.11.19

**Rapporteur** : K. van Zee

**Authorisation** : prof. ir N.A. Hendriks

**Initials** :



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Re : Protan SE  
Certificate number : CTG-335

## 1 Introduction

By order of INTRON Certificatie B.V. and in the framework of a verification test for the maintenance of the KOMO attest-met-productcertificaat CTG-335, BDA Keuringsinstituut B.V. has investigated the product 'Protan SE'.

On 24 September 2008 a sample has been taken by Mr W.C. Wiersma of BDA Keuringsinstituut B.V. in the warehouse of Bollen Daksystemen B.V. in Tilburg (NL).

See annex A for the package data and sampling form.



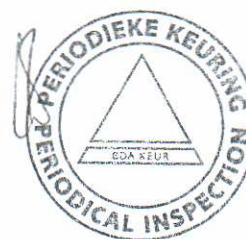
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## 2 Test method

The determination of the hail resistance has been performed according to EN 13583: Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Determination of hail resistance (2001-07).

The test has been performed on a hard support: steel plate with sand paper (grain 120) on top, and a soft support: EPS (20 kg.m<sup>-3</sup>).



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### 3 Results

#### 3.1 Resistance to hail

Support	Result
EPS (20 kg.m <sup>-3</sup> )	5 x perforation at a velocity ( $v_s$ ) of 50 m.s <sup>-1</sup>
sand paper on steel plate	5 x perforation at a velocity ( $v_s$ ) of 22 m.s <sup>-1</sup>

#### Remark:

It shall be emphasized that this survey only provides an indication at a given moment of the properties of the tested products and/or systems and it does not give evidence regarding the scope of the variations over the course of time.

These results are interpreted:

- either in the framework of a certain project, valid for the tested batch;
- or in the framework of an admission procedure for certification for a general statement, involving the manufacturer's quality assurance.

Gorinchem, 2008.11.19

The laboratory

K. van Zee



BDA Keuringsinstituut B.V.

prof. ir N.A. Hendriks



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**Package data**

**Protan SE 1,2 dark grey F94**

**2 m x 20 m**

**ORDER NO:**

MATERIAL NO: INSPECTION: **120**  
ARTICLE NO: **31512948** PROD.NO: **107226-22**



31512948 40107226-22

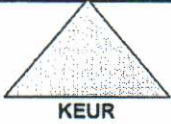


PROTAN AS-P.O.BOX 420-3002 DRAMMEN-NORWAY



Subject to the conditions of Approval as a Class 1  
Roof Cover when installed as described in the current  
edition of the FM Approval Guide

RUL30812

## Sampling form

 KEUR	REGISTRATIEFORMULIER	RF 001/02 blad 1 van 3 bladen
	Bemonsterbon dakbanen	Datum: 02.01.01
<b>OPDRACHT</b> <span style="float: right;">CLvB-009</span>		
Merknaam: <b>Protan SE</b>	<b>Bemonsteradres</b>	
Opdrachtnummer: <b>0262-V-08</b>	Firma: <b>Bollen Daksystemen B.V.</b>	
Productcode:	Adres: <b>Pijnboomstraat 18</b>	
Certificaathouder: <b>PROTAN AS</b>	Plaats: <b>TILBURG</b>	
Certificaatnr: <b>CTG-335</b>	Tel.: <b>013-6900950</b>	
Referentie: <b>PROTAN AS</b>	Contact: <b>dhr. Joost Bollen</b>	
Bijzonderheden: <b>Er moet minimaal 10 m<sup>3</sup> bemonsterd worden!!!</b>		
<b>BEMONSTERING</b>		
Datum: <b>24-09-08</b>	Partijgrootte: pallets / rollen	
	Aantal monsters: <b>1</b>	
	Grootte monsters: <b>10 m<sup>3</sup> bemonsteren</b>	
Ontvangen van: (naam)	Ontvangen door: <b>Wilco Wiersma</b>	
Firma: <b>Bollen Daksystemen B.V.</b>	Firma: <b>BDA Keuringsinstituut B.V.</b>	
Handtekening: 	Handtekening: 	
<b>ONDERZOEK</b>		
Opdrachtgever: <b>Intron Certificatie B.V.</b>		
Soort bemonstering: <b>Verificatie Keuring</b>		
Type keuring:		
Rapportage in: <b>ENG</b>		
Aantal rapporten:		
Datum:		
Naam + paraaf:		
Bijzonderheden:		