

# Certificate

NORDIC CERTIFICATION OF ROAD MARKING MATERIALS

## GENERAL

Valid in years:	2026-2027
Test site:	Finland, Iceland, Norway and Sweden
Material ID:	TPXW23-82 NO
Date of issue:	2026-01-25
Version (year):	Y2 (renewed)

## PRODUCT INFORMATION

Material name:	Excellent Extrusion 567
Producer:	Excellent Road Markings AB Storvägen 72 SE-123 45 Småköping Sweden
Material type:	Thermoplastic extrusion/screed
Density:	2.0 kg/l
Application method, base material:	Extrusion/screed

## SPECIFICATIONS

Marking type*:	Type I
Colour of material:	White
Valid for thickness, base material (mm):	3.0
Rate of application of drop on components:	350 g/m <sup>2</sup>
Drop on material used on test field:	Glass Bead Products A/S, DropOn 810-125 20%
Approved alternative drop on materials:	Other Glass Beads A/S, 810-125 20%
Other information:	

\*) Specifications for type II markings are given on page 2

## CERTIFICATION

**Achieved roll-over class:** P5 1 000 000 (± 200 000) wheel passages

## PERFORMANCE REQUIREMENTS AND RESULTS

Performance parameter	Requirement (EN1436 class)	Result*
Coefficient of retroreflected luminance, $R_L$ dry [mcd/m <sup>2</sup> /lx]:	150 (R3)	178
Coefficient of retroreflected luminance, $R_L$ wet [mcd/m <sup>2</sup> /lx]:	-	
Luminance coefficient under diffuse illumination, $Q_d$ [mcd/m <sup>2</sup> /lx]:	130 (Q3)	167
Friction, [PFT units]**:	0.52 (S2)	0.62
Chromaticity coordinates, daytime, x, y:	**	0.3308, 0.3507
Chromaticity coordinates, night-time, x, y:	-	

\*) Result in achieved roll-over class

\*\*\*) White markings: according to EN 1436:2018. Yellow markings: according to classes Y1 (daytime, permanent markings) or Y2 (daytime, temporary markings), and RC1 (night-time) in EN 1436:2018.

\*\*\*\*) In practice, the requirement is 0.05 PFT units lower.

The certificate is valid for the years specified in the General section. Further information can be found in the document *Nordic certification system for road marking materials* which is available at [www.nordiccert.com](http://www.nordiccert.com). The certificate is issued by NordicCert, a joint venture by Ramboll and VTI.

  
Morten Hafting, Ramboll  
morten.hafting@ramboll.no  
+47 95 14 28 21

  
Carina Fors, VTI  
carina.fors@vti.se,  
+46 13 20 41 41

# Certificate

NORDIC CERTIFICATION OF ROAD MARKING MATERIALS

## GENERAL

Valid in years:	2026-2027
Test site:	Finland, Iceland, Norway and Sweden
Material ID:	TPXW23-82 NO
Date of issue:	2026-01-25
Version (year):	Y2 (renewed)

## ROLL-OVER CLASSES, EN 1824

Roll-over class	Number of wheel passages	Climatic cycles
P0, T0	≤ 50 000	1
P1, T1	50 000 – 60 000	-
P2, T2	100 000 (± 20 000)	1
P3	200 000 (± 40 000)	1
P4	500 000 (± 100 000)	1
P5	1 000 000 (± 200 000)	2
P5.5	1 500 000 (± 150 000)	-
P6	2 000 000 (± 200 000)	-
P7	4 000 000 (± 400 000)	-

## TYPE II PROFILE/PATTERN

Profile/pattern:	-
Coverage [%]:	-



## APPLICATION ON TEST SITE

Year of application:	2023
Month of application:	Aug-Sep
Application method:	Hand screed
Thickness at application [mm]:	3.1
Road surface temperature [°C]:	24
Ambient temperature [°C]:	19
Relative humidity [%]:	48
Wind speed [m/s]:	2.1

## TEST FIELD CHARACTERISTICS

Test field:	Rte Rv2, Haslemoen, Norway
-------------	----------------------------

Road surface type:	Stone matrix asph. (SKA 11)
--------------------	-----------------------------

Year of installation:	2022
Roughness class (EN 1824):	RG2
Climatic class (EN 1824):	C3
AADT	3200
Speed limit [km/h]:	90
Lane width [m]:	3.15
Heavy vehicles [%]:	14
Studded tyres (winter) [%]:	50

METEOROLOGICAL DATA	YEAR 1	YEAR 2
Annual average temperature [°C]:	5.5	5.0
Average temperature Apr-Sep [°C]:	12.2	13.2
Average temperature Oct-Mar [°C]:	-1.3	-3.2
Annual precipitation [mm]:	527	576
Number of sun hours per month [h]:		
Number of weeks with snow:	19	16
Number of weeks with frost:		
Number of snow plough operations:	329	161
Number of salting operations:	168	147



Ramboll Sverige • Carlsgatan 7B, SE-211 20, Malmö, Sweden • +46 (0)10 615 60 00 • www.ramboll.se



VTI, Swedish National Road and Transport Research Institute • SE-581 95 Linköping, Sweden • +46 (0)13 20 48 00 • www.vti.se



# Electronic signatures and seals

This page contains information about electronic signatures and seals that has been attached to the document. For each signature and seal there is conclusive evidence (i) who created it, (ii) when it was created, and (iii) and that the document has not been changed after this point in time.

The authenticity of the document can be verified at <http://BrandSign.com/Verify>



Based on a power of attorney in Brandsign

Signatures and seals created with Brandsign complies with the standard requirements for advanced electronic signatures and seals as they are defined in EU Regulation 910/2014, and most other national laws worldwide. An electronic seal is the same thing as an electronic signature, except that it is created by a legal person and not a natural person.

**BankID:** If a signature contains a logotype for BankID, Brandsign identified the person through this service at the given date. At the same time, Brandsign ensured that the document was shown to the person in its final form.

**El. Signature by Representative:** The signature has been created by a natural person as a representative for a legal person.

**Based on a power of attorney in Brandsign:** In Brandsign, authorized signatories can issue powers of attorney that gives the attorney right to create electronic signatures and seals that are legally binding for their company. Such powers of attorney can also be created by a CEO with the right to sign the firm in day-to-day operations. The CEO or the authorized signatory can further appoint a power of attorney manager to administer this. When creating seals and signatures that are based on a power of attorney, Brandsign verified that the identified person had a power of attorney that was valid at the time and issued by an authorized person.