Certificate No.: 2531-CPR-CSC10007



CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Moramast

Scope: Supports supplied for fixed vertical signs (ZA.2)

The product fulfils the essential characteristic:

See Annex 1

Intended use: Stock items (described by performance)

Placed on the market under the name or trade mark of:

Saferoad Daluiso A/S Hvidkærvej 33 Odense SV 5250

and produced in the manufacturing plant:

CPA30003

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 12899-1:2007 : Fixed, vertical road traffic signs - Part 1: Fixed signs

under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: 2020-02-07.

This certificate will remain valid as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

(This certificate supersedes the previous version of this certificate issued 2017-11-24)

This certificate was first issued 2017-11-24.

Merete Poulsen Responsible for evaluation

Allan Laursen Responsible for certification decision

The certificate shall be reproduced in extenso – extracts only with written permission from DBI Certification A/S.



Annex 1

EXTENT

уре	Description							
limensions:	Resistance to horiz	ontal loads:						
	Resistance to norm	contai ioaus.						
66 mm Moramast	NA a va va a a b	D	- al:		Tausiau			
10 mm Moramast	Moramast		nding	Chifferen	Torsion			
40 mm Moramast	Signposts without steel	Stiffness	Moment	Stiffne	ss ivion	nent capacity		
66 mm Moramast	rods	(EI)	capacity bendinding	(Glt)		torsion (T _u)		
	1003		(M _u)			(Tu)		
/laterial:	mm	kNm²	kNm	kNm²		kNm		
luminium AA6063 T66,	66	25,2	2,2	16,9		2,0		
nodizing 20 μm Nature	110	133	6,4	70,3		5,1		
	140	291	11,0	156		8,8		
	166	543	17,5	304		14,9		
	100	545	17,5	304		14,9		
	Passive safety for s	rmance under vehicle impact: re safety for supports with maximum heights 5,57 m above ground level and maxim of sign to be mounted 5,4 m² on one support:						
	Moramast Signpost	without steel rod	s 66 mm	110 mm	140 mm	166 mm		
		Performance classes according to EN 12767:2019						
	Speed class		100	100	100	100		
	Enegy absorbing ca	tegory	NE	NE	NE	NE		
	Occupant safty clas	S	С	С	С	С		
	Backfill type		S	S	S	S		
	Dackiiii type		3	3	3	3		
	Collapse mode		SE	SE	SE	SE		
	Collapse mode Direction class Risk of roof indenta		SE SD 0	SE SD 0	SE SD 0	SE SD 0		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with	plate shall be at	SE SD 0 t least 2.0 m abo	SE SD 0 ove ground un 7 m above gro	SE SD 0 less otherwis	SE SD 0		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost	plate shall be at maximum heigl without steel rod	SE SD 0 t least 2.0 m about more that 5.5 s 66 mm	SE SD 0	SE SD 0	SE SD 0		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe	plate shall be at maximum heigl without steel rod	SE SD 0 t least 2.0 m about the more that 5.5 s 66 mm 12767:2019	SE SD 0 ove ground un 7 m above gro	SE SD 0 less otherwis	SE SD 0 se evaluated. sign mounted:		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class	plate shall be at maximum heigl without steel rod s according to EN	SE SD 0 t least 2.0 m about the more that 5.5 s 66 mm 12767:2019 NPD	SE SD 0 ove ground un 7 m above gro	SE SD 0 less otherwis bund and no 140 mm	SE SD 0 se evaluated. sign mounted:		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class Enegy absorbing ca	plate shall be at maximum heigl without steel rod s according to EN tegory	SE SD 0 t least 2.0 m about the more that 5.5 s 66 mm 12767:2019 NPD NPD	SE SD 0 ove ground un 7 m above gro 110 mm NPD NPD	SE SD 0 less otherwis bund and no 140 mm NPD NPD	SE SD 0 se evaluated. sign mounted: 166 mm NPD NPD		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class Enegy absorbing ca Occupant safty class	plate shall be at maximum heigl without steel rod s according to EN tegory	SE SD 0 t least 2.0 m about the more that 5.5 s 66 mm 12767:2019 NPD NPD NPD	SE SD 0 ove ground un 7 m above gro 110 mm NPD NPD NPD	SE SD 0 less otherwis ound and no 140 mm NPD NPD NPD	SE SD 0 se evaluated. sign mounted: 166 mm NPD NPD NPD		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class Enegy absorbing ca Occupant safty clas Backfill type	plate shall be at maximum heigl without steel rod s according to EN tegory	SE SD 0 t least 2.0 m about the state of th	SE SD 0 ove ground un 7 m above gro 110 mm NPD NPD NPD NPD NPD	SE SD 0 less otherwis ound and no 140 mm NPD NPD NPD NPD	SE SD 0 se evaluated. sign mounted: 166 mm NPD NPD NPD NPD NPD		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class Enegy absorbing ca Occupant safty clas Backfill type Collapse mode	plate shall be at maximum heigl without steel rod s according to EN tegory	SE SD 0 t least 2.0 m about the more that 5.5 s 66 mm 12767:2019 NPD NPD NPD NPD NPD NPD	SE SD 0 ove ground un 7 m above gro 110 mm NPD NPD NPD NPD NPD NPD NPD	SE SD 0 less otherwis ound and no 140 mm NPD NPD NPD NPD NPD NPD	SE SD 0 se evaluated. sign mounted: 166 mm NPD NPD NPD NPD NPD NPD NPD		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class Enegy absorbing ca Occupant safty clas Backfill type Collapse mode Direction class	plate shall be at maximum height without steel rod s according to EN tegory	SE SD 0 t least 2.0 m about 12767:2019 NPD	SE SD 0 ove ground un 7 m above gro 110 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD	SE SD 0 less otherwis ound and no 140 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD	SE SD 0 se evaluated. sign mounted: 166 mm NPD		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class Enegy absorbing ca Occupant safty clas Backfill type Collapse mode	plate shall be at maximum height without steel rod s according to EN tegory	SE SD 0 t least 2.0 m about the more that 5.5 s 66 mm 12767:2019 NPD NPD NPD NPD NPD NPD	SE SD 0 ove ground un 7 m above gro 110 mm NPD NPD NPD NPD NPD NPD NPD	SE SD 0 less otherwis ound and no 140 mm NPD NPD NPD NPD NPD NPD	SE SD 0 se evaluated. sign mounted: 166 mm NPD NPD NPD NPD NPD NPD NPD		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class Enegy absorbing ca Occupant safty clas Backfill type Collapse mode Direction class Risk of roof indenta Durability:	plate shall be at maximum height without steel rod s according to EN tegory s	SE SD 0 t least 2.0 m about 12767:2019 NPD	SE SD 0 ove ground un 7 m above gro 110 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD NP	SE SD 0 less otherwis ound and no 140 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD	SE SD 0 se evaluated. sign mounted: 166 mm NPD		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class Enegy absorbing ca Occupant safty clas Backfill type Collapse mode Direction class Risk of roof indenta Durability: Corrosion resistance	plate shall be at maximum height without steel rod s according to EN tegory s	SE SD 0 t least 2.0 m about the more that 5.5 s 66 mm 12767:2019 NPD	SE SD 0 ove ground un 7 m above gro 110 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD NP	SE SD 0 less otherwis ound and no 140 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD	SE SD 0 se evaluated. sign mounted: 166 mm NPD		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class Enegy absorbing ca Occupant safty clas Backfill type Collapse mode Direction class Risk of roof indenta Durability:	plate shall be at maximum height without steel rod s according to EN tegory s	SE SD 0 t least 2.0 m about the more that 5.5 s 66 mm 12767:2019 NPD	SE SD 0 ove ground un 7 m above gro 110 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD NP	SE SD 0 less otherwis ound and no 140 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD	SE SD 0 se evaluated. sign mounted: 166 mm NPD		
	Collapse mode Direction class Risk of roof indenta Lower edge of sign Passive safety with Moramast Signpost Performance classe Speed class Enegy absorbing ca Occupant safty clas Backfill type Collapse mode Direction class Risk of roof indenta Durability: Corrosion resistance	plate shall be at maximum height without steel rod s according to EN tegory s	SE SD 0 t least 2.0 m about the state of the	SE SD 0 ove ground un 7 m above gro 110 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD NP	SE SD 0 less otherwis ound and no 140 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD NP	SE SD 0 se evaluated. sign mounted: 166 mm NPD NPD NPD NPD NPD NPD NPD NPD NPD NP		



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Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
Helsinki University of Technology Highway Engineering	Н0925	2009-02-12
Helsinki University of Technology Highway Engineering	Н0926	2009-02-12

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Annex 3

TECHNICAL BASIS

Title	Date
Saferoad Moramast Technical documentation Revision 01	November 2017
Daluiso/Mora Mast DA15114E	2017-08-21
Daluiso/Mora Mast DA15115E	2017-08-21
Daluiso/Mora Mast DA15116E	2017-09-12
Daluiso/Mora Mast DA15117A	2017-08-21
Translation of test reports for Moramast Sign post	2019-12-23

