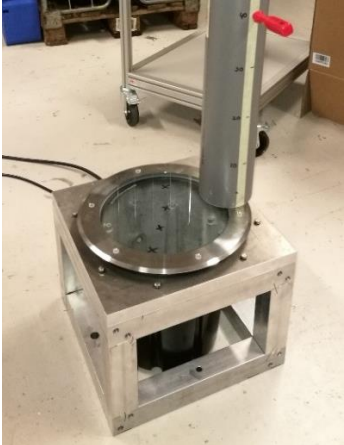

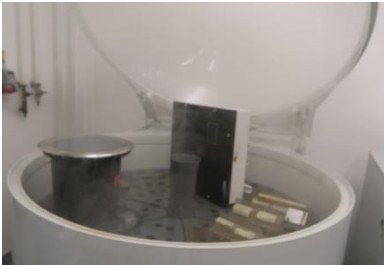



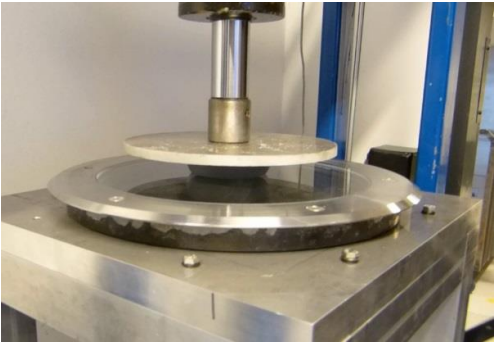
# Product verification and reliability report

Product: Exterior Inground 400 Series

Date: 2017-10-10



Test performed	Condition	Duration	Test lab	Result
<p><b>IK Class Test Verification</b>– Protection against external mechanical impacts</p> 	EN62262, IK-10	NA	Martin	Pass
<p><b>Application Vibration Test Verification</b></p> 	<p>Sinusoidal vibration IEC 60068-2-6, 1.0g (RMS), X, Y &amp; Z direction</p> <p>Random vibration IEC 60068-2-64, Random vibration. 0,7g RMS,5-100 Hz, X, Y &amp; Z direction</p> <p>Fixture powered during test.</p>	<p>3 x 30 mins.</p> <p>3 x 30 mins.</p>	Terma	Pass
<p><b>Salt fog Test Verification</b> - corrosion resistance of materials and surface coatings</p> 	ASTM-B117, 5% NaCl, T=35°C / ISO12944, C5-M(Marine), Medium durability	1440 hours	Ektors Lab	Pass

<b>IP Class Test Verification</b> - protection against intrusion of dust and water	IP 67, EN60529	Immersion for 30 min.	Intertek	Pass
<b>Cyclic Temperature Test Verification</b>	-40°C to +75°C	30 cycles	Martin	Pass
<b>Surge / Transient Test Verification</b> - surge immunity from power switches and lightning  	EN61000-4-5 / Class 4, 4kV  EN61000-4-4 / Level 4, 4kV	NA	Martin	Pass
<b>Packing drop Test Verification</b>	ISTA 1A, 10 drops, height 460 mm to 760 mm.	NA	Martin	Pass
<b>Resistance to static load, torque and shear loads</b>  	EN 60598-2-13  13.6.1 Static load  13.6.2 Torque and shear load	4000 kg for 1 min.  50 Nm torque for 1 min.  5 kN pull force 5-10 sec, 20 cycles.	Intertek	Pass

*Bo A. Poulsen*

Report prepared and verified by:

Bo Horsted Poulsen, Senior Quality Engineer

Department:

Martin Professional, R&D QA

Date:

2017-10-10

Revision:

01