

## ATTESTATION OF CONFORMITY

Nr. 2027821

Issued to: Legrand Nederland B.V.

For the product: Enclosure for trunking and ducting systems

Tested product: 65x195mm

Certified products: 65x150, 35x80, 50x105, 65x195

Manufactured by: Legrand Inovac / Plinthelec  
Route d' Evron  
42140 Sillé Le Guillaume  
Frankrijk

Requirements: IEC 1084 1<sup>st</sup> edition 1991+A1:1993

This Attestation is granted on account of tests made in our laboratory, the results of which are laid down in our report:

nr. 2027821.01A ( 7 pages)

The tests have been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by KEMA is not the responsibility of KEMA.

KEMA Quality B.V.  
Arnhem May 8, 2003

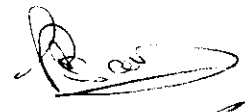
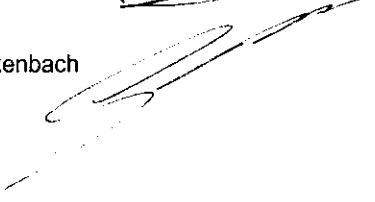


H.R.M. Barends  
Certification Manager

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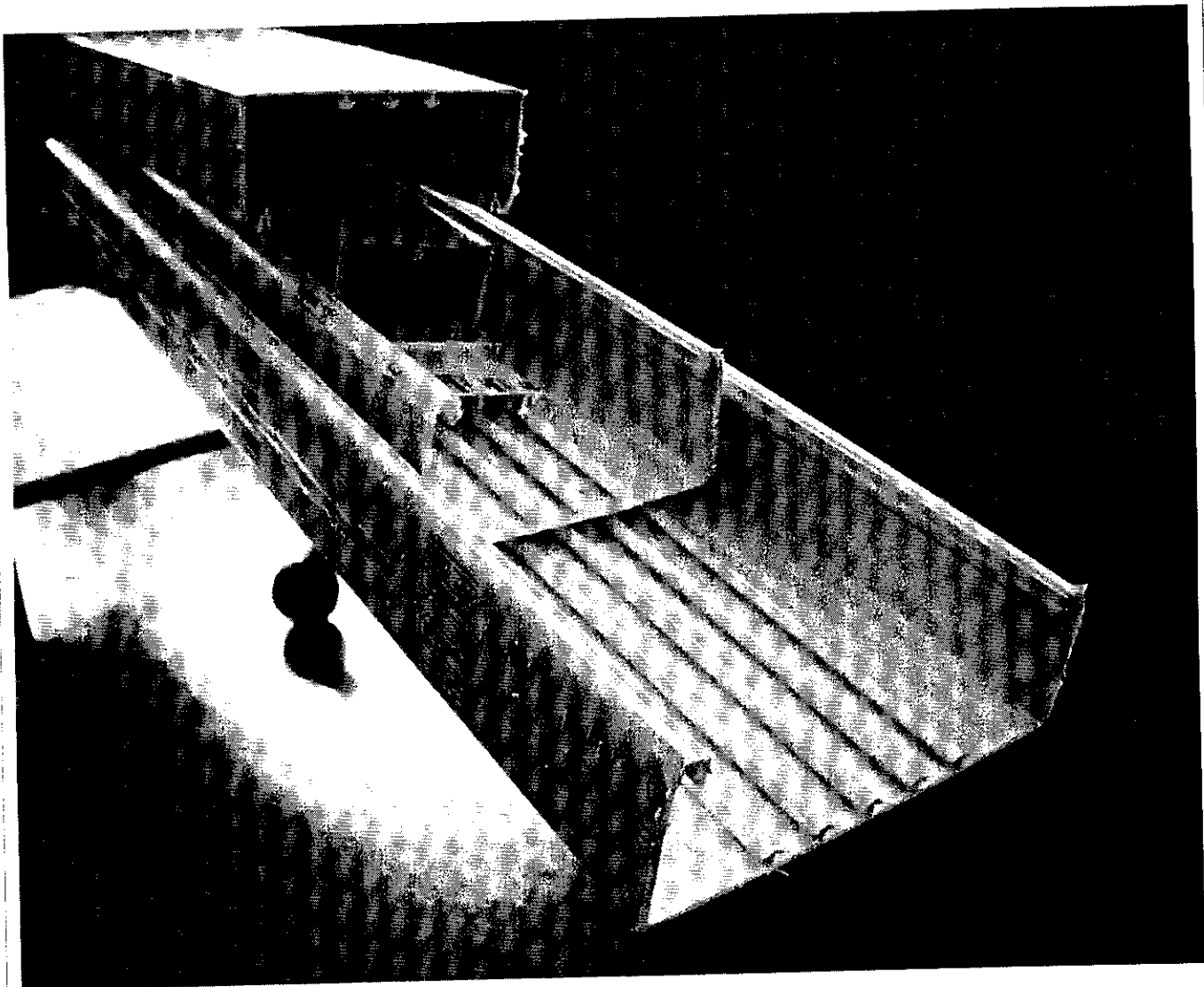
**N.V. KEMA**

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<p><b>IEC CERTIFICATION SCHEME 1084</b></p> <p>Test Report Form</p> <p>GENERAL REQUIREMENTS FOR ENCLOSURES FOR TRUNKING AND DUCTING SYSTEMS AND SIMILAR FIXED ELECTRICAL INSTALLATION</p> <p>IEC Publication 1084 1st edition 1991+A1:1993.</p>	<p>Reference no.: 2027821.01A</p> <p>Testing station: KEMA Quality B.V. Utrechtseweg 310, 6812AR Arnhem The Netherlands</p> <p>Tested by: R. van Daalen </p> <p>Checked by: A.A. Mackenbach </p>
<p>Type of system: <input checked="" type="checkbox"/> trunking system : DLP</p> <p><input checked="" type="checkbox"/> insulating <input type="checkbox"/> metallic <input checked="" type="checkbox"/> composite <input type="checkbox"/> non-flame propagating</p> <p>Nature of installation <input type="checkbox"/> walls combustible solid <input checked="" type="checkbox"/> walls non combustible solid <input type="checkbox"/> hollow walls</p> <p><input checked="" type="checkbox"/> IP 4X</p>	<p><input type="checkbox"/> cable management flooring system</p> <p>Application temperature range <input type="checkbox"/> - 15 + 60°C <input checked="" type="checkbox"/> - 5 + 60°C <input type="checkbox"/> - 5 + 90°C</p>
<p>Made by: Interface International bv</p> <p>Trade Mark : Legrand</p> <p>Commission received from : Legrand Nederland B.V. Date: 2003-03-17</p>	
<p>Marking reproduction: CE NF LEGRAND UF 212 65x195 10433 NFC 68102 IP40-IK07&gt;PVC&lt; BREVETE PATENTED 5MΩ 15339029316</p>	
<p><b>For remarks and/or notes see on page 2 of this Test Report</b></p>	
<p>Issued by: KEMA Quality B.V. Utrechtseweg 310, 6812 AR ARNHEM, The Netherlands</p> <p>Date of issue: 2003-06-13</p>	

**REMARKS / NOTES****P = Passed****N.A. = Not applicable****A = Applicable****Tested system : 65x195mm****Additional tests carried out on systems : 35x80 (grey), 65x150, 50x105.**

This report is not a valid CB Testreport unless appended to a CB Test Certificate issued by NCB in accordance with IECEE 02



Clause	Prescribed	Observed	Comply	Remark no.
4	<p><b>GENERAL REQUIREMENTS</b></p> <p>Trunking and ducting systems shall be designed and constructed in a way that where required they ensure reliable mechanical protection to the conductors and / or cables contained therein.</p> <p>Where required the system shall also provide adequate electrical protection</p>	O.K.	P	
6	<p><b>CLASSIFICATION</b></p>			
6.1	- according to material			
6.2	- according to mechanical properties			
6.3	- according to temperatures			
6.4	- according to resistance to flame propagation			
6.5	- according to electrical characteristics			
6.6	- <b>according to protection against external influences</b>		A	
6.6.1	<p><b>Protection against ingress of solid objects</b></p> <p>Trunking/ducting systems giving protection against solid objects of: -</p>			
6.6.1.1	12,5mm $\phi$ and greater (IP2X)			
6.6.1.2	- against solid objects of 2,5mm and greater (IP3X)			
6.6.1.3	- <b>against solid objects of 1,0mm and greater (IP4X)</b>		A	
6.6.1.4	- against dust (IP5X)			
6.6.1.5	- dust tight trunking/ducting systems (IP6X)			
6.6.2	<p><b>Protection against ingress of water</b></p>			
6.6.2.1	Trunking/ducting systems with no protection, or			
6.6.2.2	- against vertical falling water drops (IP X1)		N.A.	
6.6.2.3	- against falling drops when enclosure tilted up to 15°(IPX2)			
6.6.2.4	- against spraying water (IPX3)			
6.6.2.5	- against splashing water (IPX4)			
6.6.2.6	- against waterjets (IPX5)			
6.6.3	<p><b>Protection against corrosive or polluting substances</b></p>			
6.6.3.1	Trunking/ducting systems with low protection out- and inside		N.A.	
6.6.3.2	- medium protection outside and low protection inside			
6.6.3.3	- medium protection outside and medium protection inside			
6.6.3.4	- high protection outside and low protection inside			
6.6.3.5	- high protection outside and medium protection inside			
6.6.3.6	- high protection outside and high protection inside			

6.6.4.	<b>Protection against solar radiation</b> Trunking/ducting systems		N.A.	
6.6.4.1	- without protection			
6.6.4.2	- with low protection			
6.6.4.3	- with medium protection			
6.6.4.4	- with high protection			
6.7.	- access cover removable without tools - access cover removable with tools	O.K.	P	
7	<b>MARKING</b>			
7.1	Each length of trunking/ducting system and each trunking/ducting fitting shall be marked with the manufacturer's or responsible vendor's name, trade mark or other identifying symbol and the number of this specification	O.K.	P	
7.2	- printed markings are easy legitable and durable on each lenght - type reference - flame propagating markings - rub test with water - rub test with petroleum spirit - legible after test	O.K. O.K. O.K. O.K. O.K.	P P P P P	
8	<b>DIMENSIONS</b> - usable internal area for cables for the trunking/ducting [mm <sup>2</sup> ]	O.K.	P	
9	<b>CONSTRUCTION</b> Enclosure shall have adequate mechanical strength			
9.1	Any surface or edge shall not damage the conductors or cables	O.K.	P	
9.3	Fixing screws and small spring clips of insulating trunking fittings need not be of insulating material if they do not come into contact with the conductors or cables		N.A.	
9.3.1	Screws where used for attaching components or covers if any to trunking components shall have ISO metric threads or be of the thread forming type.  Systems with screw fixing means shall be designed in a way to withstand the mechanical stresses occuring during installation and normal use.		N.A.  N.A.	

<p>9.3.2</p>	<p><b>Fixing means</b>          -the screws shall be tightened and removed          Values of torque for screw tests           Number of tightnings : times           Ø mm ; torque Nm</p>		<p>N.A.</p>	
<p>9.4</p>	<p><b>Access to live parts</b></p>			
<p>9.4.1</p>	<p>Trunking/ducting systems shall be designed in a way that when they are installed and fitted with insulated conductors and apparatus in normal use, live parts are not accessible</p>	<p>O.K.</p>	<p>P</p>	
<p>9.4.2</p>	<p>The standard unjointed testfinger according IEC 529 is applied in every possible position, an electrical indicator with a voltage not less than 40 V and not more than 50 V being used to show contact with the relevant part.</p>			
<p>9.4.3</p>	<p>The standard unjointed testfinger according IEC 529 is subjected to the object for 1 min. with 75N</p>	<p>O.K.</p>	<p>P</p>	
<p>9.4.4</p>	<p>The standard unjointed testfinger is submitted for 1 min. with 10N to knock-outs</p>		<p>N.A.</p>	

9.7	<b>Glands</b>			
9.7.1	Screwed glands, if any, shall comply with the tests of 9.7.2		N.A.	
9.7.2	Tightening torque for metal and other glands - 1 min. diameter mm, torque Nm, no damage or cracks		N.A.	
10	<b>MECHANICAL PROPERTIES</b>			
10.1	Trunking/ducting systems shall have adequate mechanical strength. Compliance is checked by the tests specified in 10.2 to 10.6 and by any additional tests. After all mechanical property tests the cover, if any, shall not have become detached.	O.K.	P	
10.2	<b>Cable supporting test for surface mounting</b>			
10.2.1	<b>samples at 20°C ±5°C</b> - position A , load 0,13kg/cm <sup>2</sup> , 2h, distortion <10% of H and max. 10mm - position B , load 0,13kg/cm <sup>2</sup> , 2h, distortion <10% of W and max. 10mm - cover does not detache <b>composite samples at 60°C ±2°C</b> - position A , load 0,13kg/cm <sup>2</sup> , 2h, distortion <10% of H and max. 10mm - position B , load 0,13kg/cm <sup>2</sup> , 2h, distortion <10% of W and max. 10mm	O.K.	P	
10.3	<b>Impact test</b> stress classification - 240h temp. 60°C ± 2°C - mass 2 kg - falling height 100 mm after test no damage or cracks			P
10.4	<b>Linear deflection test</b>			
10.4.2	- samples at 20°C ±5°C, load 0,13kg/cm <sup>2</sup> , 1h deflection max. 1% of supportdistance			N.A.
10.4.5	- samples at <60°C ±2°C, load 0,13kg/cm <sup>2</sup> 1h deflection max. 1% of supportdistance			N.A.
10.6	The cover, if any, shall not be detached by the applied load. <b>Cover retention test</b> Without a tool, the cover shall not be detached from the main part.			P

11	<b>RESISTANCE TO FLAME PROPAGATION</b>		
11.1.1	Flame applied for 60 sec. - sample does not ignite or in case of ignition flames extinguish within 30 seconds after removal of the flame.	O.K.	P
11.1.2	Glow wire test sample is applied with a glow wire with 650°C for 30 seconds - sample does not ignite or in case of ignition flames extinguish within 30 seconds after removal of the flame	O.K.	P
12	<b>ELECTRICAL CHARACTERISTICS</b>		
12.1	Trunking/ducting systems with electrical continuity characteristics shall be so constructed that they can be used in an installation as a bonding, earthing or protective conductor		N.A.
12.2	Electrical continuity test (under consideration)		N.A.
12.3	Electrical insulating strength and insulation resistance test for insulating and composite materials.  <b>insulation resistance</b> - set of samples in humidity cabinet between 91% and 95% relative humidity ,temperature between 20°C and 30°C ± 1°C. t=48h - insulation resistance 500 V d.c. between cables and foil or gauze >100MΩ <b>conductivity</b> - conductivity metal objects within the sample < 100Ω - voltage test 2500 V, 1 min. no breakdown	>100MΩ	P N.A.
13	<b>EXTERNAL INFLUENCES</b> (Under consideration)		N.A.