

# Electrician Cabinet

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## Prøvning og Certificering

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Sagsbehandler: Carsten Hagelund

Deres reference  
P. Christiansen 1996-04-30

Deres brev af

Vort brev af

Vor reference  
120640 CH

Lokal lff. Herlev  
213 1996-05-30

### Fremsendelse af certifikat

I henhold til Deres anmodning af 1996-04-30 har DEMKO undersøgt det indsendte produkt type installations skab.

Ved undersøgelsen er det konstateret, at produktet opfylder bestemmelserne i henhold til IEC 529 for IP 66.

./ Vedlagt Test report DEMKO ref.nr. 96-01641.

Produktet vil blive Dem tilsendt.

De med sagen forbundne omkostninger vil fremgå af separat fremsendt faktura.

Med venlig hilsen  
For DEMKO



Jens Chr. Jensen  
Sektionschef

TEST REPORT  
IEC 529

Report reference No. . . . . : 96-01641  
Compiled by (+ signature) . . . : JP  
Approved by (+ signature) . . . : CH  
Date of issue . . . . . : 1996-05-21

*J. Palleesen*  
*E. Høgelund*

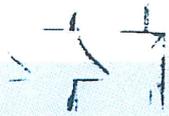
Testing laboratory . . . . . : DEMKO  
Address . . . . . : Lyskaer 8, DK-2730 Herlev.  
Testing location . . . . . : see above

Applicant . . . . . : Sindal Stålinindustri Aps  
Address . . . . . : SST Ole Rømersvej 1 B DK-9870 Sindal Denmark

Standard . . . . . : IEC 529  
Test Report Form No. . . . . : IP  
Date. . . . . : 96-05  
originator. . . . . : DEMKO  
Copyright blank test report . . . : This report is based on a blank test report that was prepared by  
DEMKO using information obtained from IEC 529.

Test procedure . . . . . : IEC 529  
Procedure deviation . . . . . : N.A.  
Non-standard test method . . . . : N.A.

Type of test item . . . . . : Installation chamber with or without windows  
Trademark . . . . . : SST according to sheets  
Model/type reference . . . . . : See last page regarding size.  
Manufacturer . . . . . : Sindal Stålinindustri Aps  
Rating . . . . . : None.



**Stainless  
Steel  
Technology**



Test item particulars:

..... :

IP number ..... : IP 66

Possible test case verdicts:

- test case does not apply to the test object . . : N(.A.)
- test object does meet the requirement . . . . . : P(ass)
- test object does not meet the requirement . . . : F(ail)

General remarks:

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

The test results presented in this report relate only to the item tested.

This report shall not be reproduced except in full without the written approval of the testing laboratory.

After test for IP6X no dust inside.

After test for IPX6 no water inside.

Test equipment according to IEC 529

IEC 529			
Cl.	Requirement - Test	Result	Verdict

4.	GENERAL NOTES ON TESTS		
	Tests performed according to Cl. 4, e.g. correct ambient temperature range, nature of supply, sequence of testing, most unfavourable position etc.	According to IEC 529 Dust chamber and jet-proff test	Pass

6.	CLASSIFICATION		
6.1	Protection class against electric shock 0, 0I, I, II, III (Class)	None electrical equipment	N.A.
	Degree of protection against moisture (ordinary, drip-proof, splash-proof, watertight)	IEC 529 IP 66	Pass

15.	MOISTURE RESISTANCE		
15.1	Enclosure provides the degree of moisture protection according to classification of appliance (tests 15.2)		Pass
15.2	Appliance subjected to test	Jet-proof test and dust test	Pass
	Electric strength test according to 16.4		N.A.
	No trace of water on insulation which can result in reduction of distances and clearances below the specified values	No water at all inside	Pass

IEC 529			
Cl.	Requirement – Test	Result	Verdict

Dust chamber test according to IEC 529 for IP6X

Sub.Cl.13.4

Test is made using a dust chamber incorporating the basic principles shown in fig. 2 whereby the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the normal wire diameter of which is  $50\mu\text{m}$  and the normal width between wires  $75\mu\text{m}$ . The amount of talcum powder to be used is 2 Kg per cubic metre of the test chamber volume. It shall not have been used for more than 20 tests.

Test of category 1 enclosure for installation chamber with or without windows.

The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump. The suction connection shall be made to a hole specially provided for this test.

The object of the test is to draw into enclosure by means of depression, a volume of air 80 times the volume of the sample enclosure tested without exceeding the extraction rate of 60 volumes per hour. In no event shall the depression exceed 2 kPa (20mbar) on the manometer.

Test is fulfill with an extraction rate of 40 to 60 volumes per hour is obtain the duration of the test is 2 hour.

IEC 529			
Cl.	Requirement – Test	Result	Verdict

Jet-proof test according to IEC 529 for IP X6  
Sub. Cl. 14.2.6

**Test conditions:**

Internal diameter of the nozzle is 12.5 mm.

Delivery rate is 100 l/min  $\pm$ 5 %.

Core of the substantial stream: circle of approximately 120 mm at 2.5 m distance from nozzle.

Test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle testing time 3 min with distance to enclosure surface 3 m.

IEC 529			
Cl.	Requirement - Test	Result	Verdict
24.1	TABLE: components		

The enclosure is made of stainless steel, plate corn: 180, ( AISI 304-DIN 1.4303) or AISI 316-DIN 1.4401.

The door can be delivered either totally of steel or with window of polycarbonat.

Protection against water and dust is used :Poron cellular urethanes. Deensity: 15-30PCF(240-480 Kg/m3  
Cell size = 100 microns.

Remarks

Dimensions of the boxes:

Udvendig mål (W x H x D) br. x h. x d.	Lysning br. x h.	Montagedybde i bundplade fra L til bundplade	bundplade br. x h.	Rudelysning br. x h.	vægt	lagerføres
300x400x225mm	220x320mm	205mm	215x350mm	185x285mm		X
400x400x225mm	320x320mm	205mm	315x350mm	285x285mm		X
400x600x225mm	320x520mm	205mm	315x550mm	285x485mm		X
600x600x225mm	520x520mm	205mm	515x550mm	515x550mm		X
600x600x325mm	520x520mm	305mm	515x550mm	685x685mm		X
800x800x225mm	720x720mm	205mm	715x750mm	685x685mm		X
800x800x325mm	720x720mm	305mm	715x750mm	685x685mm		
800x800x425mm	720x720mm	405mm	715x750mm	685x685mm		
800x1000x325mm	720x920mm	305mm	715x950mm	685x885mm		
800x1200x425mm	720x1120mm	405mm	715x1150mm	685x1085mm		

