First Group Lab

CE LVD
TEST REPORT

For

Aldo Bernardi srl

Model No.:	Wall box "Ottoni"
Applicant:	Aldo Bernardi srl via Vittorio Veneto, 7 31017 Pieve del Grappa - TV - Italy
Manufacturer:	Aldo Bernardi srl via Vittorio Veneto, 7 31017 Pieve del Grappa - TV - Italy
Issued by:	First Group sas via Tiepolo, 18 31021 Mogliano V.to, Treviso, Italy tel.: +39 041 5951122 mail: info@firstgroup.it
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Issued Date:	28/09/2023
Start of tests:	01/06/2023
End of tests:	27/09/2023
Date of sample receipt:	18/01/2023

Note

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

The laboratory is not responsable of the sampling.

TEST REPORT
IEC 60670-22
Boxes and enclosures for electrical accessories for household and similar fixed electrical installations
Part 22: Particular requirements for connecting boxes and enclosure

Report number:	02304276LN-00
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Name of Testing Laboratory preparing the Report:	First Group sas - via Tiepolo, 18 - Mogliano V.to - Treviso - Italy
Applicant's name:	Aldo Bernardi srl
Address:	via Vittorio Veneto, 7 31017 Pieve del Grappa - TV - Italy
Test specification Standard:	IEC 60670-22: 2003 used in conjunction with IEC 60670-1: 2015
Non standard test method:	N/A
Trade Mark:	Aldo Bernardi srl
Model/Type designation:	Wall box "Ottoni"
Test Item Description:	wall box
Ratings:	1000V a.c. / 1500V d.c.

Possible test verdict

N/A	test case does not apply to the test object
P (pass)	test object does meet the requirement
F (fail)	test object does not meet the requirement
Decisional rule	The judgment / declaration of conformity is assigned taking into account only the numerical values of the measurands reported in this document or the data obtained in the visual inspection.

Tested by :	laboratory technician	Valter Benetton	Valter Benetton
Approved by:	laboratory manager	Giorgio Lovisetto	

General remarks:

This report includes the following parts:
_ Applied clauses of IEC 60670-22.
_ Annex 1: Tables
_ Annex 2: Photo Documentation.
_ Annex 3: Laboratory Equipments.

Unless otherwise specified, test are made under normal conditions at an ambient temperature within the range of 18°C to 28°C, RH 45% to 75%.

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

Test item particulars	
7.1 Nature of materials	☐ 7.1.1 Insulating ☒ 7.1.2 Metallic ☐ 7.1.3 Composite ☐ 7.1.3 Natural or synthetic rubber or a mixture of both
7.2 Method of installation	☐ 7.2.1 Flush, semi-flush in solid walls, ceiling or floors ☐ 7.2.1.1 Not suitable for installation into concrete ☐ 7.2.1.2 Suitable for installation into concrete, max T 60°C during casting ☐ 7.2.1.3 Suitable for installation into concrete, max T 90°C during casting ☐ 7.2.2 Flush, semi-flush in hallow walls, hallow ceiling, hallow floors or forniture ☐ 7.2.2.1 Class Ha ☐ 7.2.2.2 Class Hb for walls ☐ 7.2.2.3 Class Hb for ceilings ☒ 7.2.3 Surface mounting on walls, ceiling, floors or forniture
7.3 Type(s) of inlets (outlets)	☐ 7.3.1 With inlets for sheathed cables for fixed installations ☐ 7.3.2 With inlets for flexible cables ☒ 7.3.3 With inlets for plain or corrugated conduits ☐ 7.3.4 With inlets for threaded conduits ☐ 7.3.5 With inlets for other types of conductors/cables or conduits ☐ 7.3.6 With spouts (hub) ☐ 7.3.7 Without inlets. Inlet openings will be made during installation
7.4 Clamping means	☐ 7.4.1 With cable retention ☐ 7.4.2 With cable anchorage ☐ 7.4.3 With clamping means for flexible conduit ☒ 7.4.4 With clamping means for flexible conduit
7.5 Minimun temperature during installation	☒ 7.5.1 -5°C ☐ 7.5.2 -15°C ☐ 7.5.3 -25°C
7.6 and 7.7 IP degree	☐ minimum IP2X ☒ Degree IP40
7.8 Degree of protection of the part mounted inside the hallow walls if classified 7.2.2.1	☐ 7.8.1 IP2X ☐ 7.8.2 >IP2x
7.9 The provision for fixing accessories to boxes	☐ 7.9.1 Boxes supplied with screws ☒ 7.9.2 Boxes intended to receive screws ☐ 7.9.3 Boxes intended to receive claws ☐ 7.9.4 Boxes intended to receive other means
7.101 Method of fixing the terminal in the connecting device	☐ 7.101.1 With integrated clamping unit ☐ 7.101.2 with incorporated terminals or connecting devices ☐ 7.101.3 With provisions for subsequent incorporation of terminals ☒ 7.101.4 Without fixing (floating terminals or connecting device)

This test report cover the follow elements:

75	Round junction box in cast brass
80	Oval junction box in cast brass
90	Rectangular junction box in cast brass
CIL.10	Brass connection for conduit Ø10 mm
CIL.16	Brass connection for conduit Ø16 mm
CIL.20	Brass connection for conduit Ø20 mm
TAP.10	Opening cap Ø10 mm
TAP.16	Opening cap Ø16 mm
TAP.20	Opening cap Ø20 mm
RID.1	Brass adapter Ø20 to Ø16 mm
RID.2	Brass adapter Ø16 to Ø10 mm

IEC 60670-22			
Clause	Requirement + Test	Result - Remark	Verdict
8	**MARKING**		P
8.1	Boxes and enclosures are marked with:		-
	a) name, trade mark or identification mark of the manufacturer or the responsible vendor ..... :		P
	Enclosures are marked in addition with:		N/A
	b) IP code against ingress of solid objects if higher than IP2X ……...:	IP 4X	P
	c) IP code against harmful ingress of water if higher than IPX0 .....:	IP X0	N/A
	d) marking on cover of flush enclosures for rough surfaces and where IP is dependent on the surface (Fig. 5) ……..…:	IP XX ^^^	N/A
	IP code is marked on the outside of the enclosure so as to be easily discernible when the enclosure is mounted and wired as for normal use		P
	e) type reference, which may be a catalogue number .....:		P
	f) if classified 7.2.2.2 and 7.2.2.3 indicate the minimum internal volume in cm^3		N/A
	Information marked on the boxes and enclosures or provided by the manufacturer on the smallest package unit or in the instructions of the manufacturer:		-
	g) + 90°C if classified according 7.2.1.3		N/A
	h) necessary information concerning the openings which can be made during installation for boxes and enclosures classified according to 7.3.7 …..:		N/A
	i) minimum temperature during installation for boxes classified according to 7.5.2 and 7.5.3 …..…:		N/A
	j) symbol Ha for boxes classified according to 7.2.2.1, symbol Hb for boxes classified according to 7.2.2.2 and 7.2.2.3 ……..:		N/A
	k) rated insulation voltage for boxes with integrted or incorporated terminals or connecting device …:		N/A
	l) rated connecting capacity……..:		N/A
	m) maximum number of conductor to be placed in the box ……..:		N/A
8.101	Correct symbols V, mm^2 or □		P
8.2	Marking is durable and easily legible		P
9	**DIMENSIONS**		**N/A**
	Boxes and enclosures comply with the appropriate standard sheets, if any .....:		N/A
10	**PROTECTION AGAINST ELECTRIC SHOCK**		**P**
	In boxes and enclosures assembled, equipped and installed as for normal use in accordance with the manufacturer's instructions: live parts are not accessible		P

	Test probe 11 of IEC 61032 applied for 1 min with a force of 20 N do not penetrate in the internal volume of the enclosure		P
	Additional test at (35 ± 2) °C with probe 11 of IEC 61032 on enclosures according to 7.1.1, 7.1.3 and 7.1.4 with parts of thermoplastic or electrometric material applied to:		-
	- all places, except membranes or the like, where yielding of insulating material could impair the safety, with a force of 75 N		N/A

11	**PROVISION FOR EARTHING**		**P**
11.1	Boxes and enclosure with exposed conductive parts		-
	Provided with an earthing means of a low resistance		P
	Have provision for the fitting of such an earthing		N/A
	Exposed conductive parts of covers or cover-plates		N/A
	Resistence ≤0,05 Ω (Ω) ……..:	0,04	P
	The earthing means or the provision for the fitting of such an earthing means shall be located so that:		-
	- the means is readily accessible through the open face of the box, and		P
	- the removal of an accessoty mounted in the box does not disturb the continuity, and		P
	- the means is not parts of the removable cover, back, or side of the box or enclosure		N/A
11.3	Boxes and enclosure with removable sides according to 7.1.2		-
	Electrical bond between separable parts includes at least one threaded scew connection		P
11.4	Earthing terminal threads		-
	The threads of the earthing terminal shall not be stripped when the torque is applied		P
	- type of screw	M4, botton head	-
	- torque applied (Table 4)	1,2 Nm	-
	No damage during test		N/A

12	**CONSTRUCTION**		**P**
12.1	**General**		-
	Constructed without sharp edge		P
	Inner an outer surfaces not be subjected to peeling, scaling, flaking; smooth and free from blisters, crack and other defects.		P
12.2	**Lids, covers or cover-plates or part of them**		-
12.2.1	Lids, covers or cover-plates or parts of them, such as protective membranes, which are intended to ensure protection against electric shock, are held in place effectively		P
12.2.2	Box or enclosure intended to accept a lid, cover or cover plate by means of screw fixing is provided with means to accommodate the intended screws		N/A
12.2.3	Non-screw-type fixing operable without the use of a tool or a key: provided with a means to fix the lid, cover or cover plate		N/A

12.2.3.2	Verification of the non-removal of the lids, covers or cover-plates: force applied for 1 min (N) ……:		-
	Lids, covers or cover-plates not come off		N/A
12.2.3.3	Verification of the removal of the lids, covers or cover-plates: force applied for 10 times on each part (N) ……:		-
	Lids, covers or cover-plates not come off		N/A
12.2.3.4	Verification of the outline of the lids, covers or cover-plates: test with gauge of Figure 6		N/A
12.2.3.5	Verification of grooves, holes and reverse tapers: test with gauge Ø 1mm applied with a force of (1±0,2) N		-
	No enter more 1mm		N/A
12.2.4	Non-screw-type fixing operable with the use of a tool or a key		N/A
12.3	**Drain holes**		-
	Surface and semi-flush mounting enclosures having IPX1 to IPX6 allow the opening of a drain hole ≥ 5 mm in diameter (mm Ø) or 20 mm^2 in area (mm^2) with a width or length ≥ 3mm (mm) ……:		N/A
	Drain holes: effective		N/A
12.4	**Mounting of enclosure**		-
	Enclosures have provisions for their suitable attachment according to the method of installation		P
12.5	**Boxes and enclosures with inlets for flexible cables**		N/A
12.6	**Boxes and enclosures with inlets for applications other than flexible cables**		N/A
12.7	**Boxes and enclosures with a cable anchorage(s)**		N/A
12.8	**Boxes and enclosures with cable retention means**		N/A
12.9	**Knock-out inlets (outlets) intended to be removed by mechanical impact**		-
12.9.1	General		-
	It is possible to remove knock-out by mechanical		N/A
	Chips or burrs are not accepted in knock-out for		N/A
	Chips and burrs are disregarded in knock-out for		N/A
	In order to close an open knock-out in a box or an enclosure according 7.1.2 a blanking-plug used without a locknut:		N/A
	- not become dislodged, and		N/A
	- its effectiveness not be impaired, and		N/A
	- it fulfil all requirements for knock-outs		N/A
12.9.2	Knock-out retention		-
	Boxes and enclosures having knock-outs, accessible after installation by means of a 6 mm diameter mandrel with a flat end that:		N/A
	not provide access to live parts, a force of (30 ± 1) N applied for (15 ± 1)s		N/A
	provide direct access to live parts, a force of (40 ± 1) N applied for (60 ± 1) s		N/A
	Box with multi-stage knock-outs, the force applied to the smallest		N/A
	During the test: knock-out remains in place		N/A

	Degree of protection unchanged 1 h after the test		N/A
12.9.3	Knock-out removal		-
	Removal test of knock-outs with a tool as stated by the manufacturer, without conditioning:		-
	During the test: no displacement of a larger stage of multi-stage knock-outs when a smaller stage is removed		N/A
	After the test: no sharp edges, box and enclosure is not damaged		N/A
	Removal test of knock-outs with a tool as stated by the manufacturer, immediately following a conditioning at the minimum temperature specified according to 7.5 for 5 h ± 10 min (boxes and enclosures according to 7.1.1 or 7.1.3)		-
	Test temperature (°C).....:	-5°C	-
	During the test: no displacement of a larger stage of multi-stage knock-outs when a smaller stage is		N/A
	After the test: no sharp edges, box and enclosure is not damaged		N/A
12.10	**Screw fixings**		-
	Fixing means effected by screws withstand mechanical stresses		P
	Screw or other fixing means made from insulating material without standardized thread are tested according to the manufacturer's instruction		N/A
	Thread-forming or thread-cutting screws used only if supplied together with one of the pieces with which they are intended to be inserted		N/A
	Verification of the mechanical strength of screws	see table	P
12.11	**Fixing of boxes and enclosures classified according to 7.2.1**		N/A
12.12	**Fixing of flush type and semi-flush type boxes and enclosures classified according to 7.2.2.1**		N/A
12.13	**Boxes and enclosures classified according to 7.2.2.2 and 7.2.2.3**		N/A
12.14	**Cable gland entry**		P
	- diameter (mm)	10	-
	- torque applied (Table 5) (Nm)	6,3	-
	- diameter (mm)	16 and 20	-
	- torque applied (Table 5) (Nm)	7,5	-
12.15	**Boxes and enclosure with inlets (outlets) or spouts (hubs) for conduits**		-
12.15.1	Boxes and enclosure classified according to 7.3.4 and conical spouts as in 7.3.6 withstand the tests of 12.15.2, 12.15.3 and 12.15.4		N/A
	Boxes and enclosure classified according to 7.3.3 withstand the tests of 12.14		P
12.15.2	Enclosures with inlet spout for conduits: a minimum size of conduit pressed for 1 min ±5 s with a force of (100±2) N		N/A
	During the test: inlet spout prevents further entry of the conduit into the box		N/A

12.15.3	Pull-out test after the test according to 12.15.2: conduit with the minimum size corresponding to the insert opening loaded for 1 min with a tensile force of (20±2)N		N/A
	During the test: conduit not come loose from the inlet spout of the enclosure		N/A
12.15.4	Resistance to bending strain of an inlet spout: piece of conduit inserted into the inlet spout with a compressible force of (100±2) N and loaded with a bending moment of 3 Nm for 1 min in six different directions with an interval of 60°		N/A
	During the test: inlet spout not come loose or damaged and conduit stays within the inlet spout		N/A
12.16	**Internal volume of boxes and enclosure**		-
	Declared internal volume of the box or enclosure and each partitioned section of a box or enclosure, raised cover and box extension is measured		P
12.101	connecting boxes have adequate space to allow the correct connection of conductor specified in the relevant sections of Part 2 of IEC 60998		N/A
	Maximum number of conductors of maximum cross-sectional areas or the most unfavourable combination		N/A
12.102	Retention means for terminals or connecting devices withstand the mechanical stresses		N/A
	Connected conductors in accordance with the relevant Part 2 of IEC 60998 for type of connecting device used		N/A
	After the test: no harmful defotmation, crack or similar damage		N/A
12.103	Conneting boxes classified according to 7.101.1, 7.101.2 and 7.101.3 comply with temperature rise requirements of 16.102		N/A

13	**RESISTANCE TO AGEING, PROTECTION AGAINST INGRESS OF SOLID OBJECTS AND AGAINST HARMFUL INGRESS OF WATER**		**P**
13.1	**Resistance to ageing**		N/A
13.1.1	Resistance to ageing		N/A
	Specimens of insulating and composite boxes and enclosures, glands, grommets and replaceable membranes placed in a heating cabinet at (70 ± 2) °C for (168 + 4) h and then kept at room temperature for (96 + 4) h		-
	Glands tightened with a torque equal to 2/3 of the torque applied during the test of 12.13 (Nm) .....:		N/A
	Greater torque value stated by the manufacturer, if any (Nm) .....:		N/A
	After the test: no harmful deformation or similar damage		N/A
13.1.2	Grommets, blanking-plug and entry membranes in inlet openings and protecting membranes are reliably fixed and are not displaced by the mechanical and thermal stresses occurring in normal use		N/A

	Specimens that have been subjected to the treatment specified in 13.1.1 placed in a heating cabinet at (40 ± 2) °C for 2 h ± 15 min		-
	Immediately after this period the tip of test probe 11 of IEC 61032 is applied for (5 ± 1) s with a force of (30 -2) N. During the tests: grommets, blankingplug and/or membranes not deformed to such an extent that live parts of any included accessory become accessible		N/A
	Grommets, blanking-plug and/or membranes likely to be subjected to an axial pull: axial pull of (30 -2) N applied for (5 ± 1) s. During the tests: grommets, blanking-plug and/or membranes not deformed to such an extent that live parts of any included accessory become accessible		N/A
	Test repeated on same enclosures fitted with grommets, blanking-plug and/or membranes not subjected to any treatment		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A
13.1.3	Grommets, blanking-plug and entry membranes in inlet openings of boxes and enclosures classified according to 7.5.2 and 7.5.3: introduction of the cables and conduit permitted when the ambient temperature is low		N/A
	Test on enclosures fitted with grommets, blanking-plug and/or membranes not subjected to any ageing treatment kept for 2 h in a refrigerator		-
	Test temperature (°C) .....:		-
	Immediately after conditioning: it is possible to pierce any blind grommets, blanking-plug and entry membranes and to introduce cables and conduit of the maximum diameter intended		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A
13.2	**Protection against the ingress of solid objects**		P
	Enclosures provide a degree of protection against the ingress of solid objects in accordance with the declared IP code .....:	IP4x	P
	Enclosures mounted as in normal use with screwed glands or grommets fitted with cables as declared by the manufacturer……..:		N/A
	Enclosures mounted as in normal use with screwed glands or grommets fitted with conduits as declared by the manufacturer……..:	Ø10, 16 and 20 mm	P
	Fixing screws of the cover or cover-plate tightened with a torque (Nm) ……..……..:		N/A
	Greater torque value stated by the manufacturer, if the relevant information is provided (Nm) .....:		N/A
	- IP5X: test performed as specified in IEC 60529 category 2 with the drain holes, if any, not opened		N/A

	- IP≤4X: test probe does not pass through any opening other than drain holes		N/A
	- IP≤4X: test probe applied on drain holes does not touch live parts within the enclosure		N/A
	- IP5X: dust does not cover the whole inner surface		N/A
	- IP6X: there is no dust inside the box or enclosure		N/A
13.3	**Protection against harmful ingress of water**		N/A
13.3.1	Enclosures with IP>X0 provide a degree of protection against harmful ingress of water in accordance with the declared IP code .....:	IPX0	N/A
	Enclosure dimensions: reference surface S (m²) / perimeter (m) .....:	surface or perimeter XX	-
	- dimension S ≤ 0,04 m² or perimeter ≤ 0,8 m according to 13.3.2 and 13.3.3		N/A
	- dimension S > 0,04 m² and perimeter > 0,8 m according to 13.3.2 and 13.3.4		N/A
	Enclosures mounted as in normal use with screwed glands or grommets fitted with cables as declared by the manufacturer……..:	min max sezione cavo	N/A
	Enclosures mounted as in normal use with screwed glands or grommets fitted with conduits as declared by the manufacturer……..:	min max diametro tubo	N/A
	Fixing screws of the cover or cover-plate tightened with a torque (Nm) ……..……..:		-
13.3.2	Surface-mounting enclosures mounted as for normal use		N/A
	Flush type and semi-flush type enclosures fixed in a test wall:		-
	- according to the manufacturer's instructions		N/A
	- according to Figure 5		N/A
	IPX3 and IPX4 enclosures		N/A
13.3.3	Immediately after the test no more than 0,2 ml x S (cm²) water in the enclosure (ml) .....:		N/A
	Electric strenght test specified in 14.2 exept for enclosures classified according to 7.101.4		N/A
13.3.4	Immediatly after the test: indicator paper still dry		N/A

14	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		**N/A**
14.1	Insulation resistance and electric strength of enclosures classified according to 7.1.1, 7.1.3 and 7.1.4 is adequate		N/A
	Specimens placed in a humidity cabinet containing air with relative humidity between 91 % and 95 % and air temperature between 20 °C and 30 °C for:		-
	- 2 days (48 h) for enclosures classified IPX0		N/A
	- 7 days (168 h) for enclosures classified IP>X0		N/A
	After this treatment: no damage		N/A
14.2	Insulation resistance measured 1 min after application of 500 V d.c.	see table 14.2	N/A
14.2.101	For box with integrated or incorporate terminal or connectind device, the measurements are made consecutively as below		-
	a) between all clamping units connected together and the body for connecting device		N/A

	b) between each clamping units and all other connected to the body for connecting device		N/A
14.3	Electric strength: a.c. test voltage applied for 1 min	see table 14.3	N/A

15	**MECHANICAL STRENGHT**		**N/A**
15.1	Boxes and enclosures have adequate mechanical strength		-
15.2	Impact test at low temperature	only for non-metallic box	N/A
15.3	Compression test	only for non-metallic box	N/A
15.4	Impact test for boxes and enclosure	only for non-metallic box	N/A
15.5	Compression test for enclosures made pf natural or synthetic rubber or a mixture of both	only for non-metallic box	N/A

16	**RESISTANCE TO HEAT**		**N/A**
16.1	Part of insulating material necessary to retain current-carrying parts		N/A
	Ball pressure test accordin IEC 60695-10-2 (125±2)°C for (60+5) min)	see table 16.1 - 16.2	N/A
16.2	Part of insulating material not necessary to retain current-carrying parts		N/A
	Ball pressure test accordin 16.1 but (70±2)°C for (60+5) min	see table 16.1 - 16.2	N/A
	Parts of insulating material of flush-mounted enclosures classified according to 7.2.1.3: ball pressure test according to 16.1 but at (90 ± 2) °C		N/A
16.3	Boxes and enclosures of insulating materials classified according to 7.7.2		N/A

17	**CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND**		**N/A**
	Test does not apply to boxes for floating terminals or conneting devices classified according 7.101.4		-

18	**RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND FIRE**		**N/A**
	Glow-wire test according to Clauses 4 to 10 if IEC 60695-2-11	see table 18	N/A

19	**RESISTANCE TO TRACKING**		**N/A**
	Parts of insulating material retaining live parts in position of boxes and enclosures having IP>X0: PTI 175, 50 drops, solution A of IEC 60112	see table 19	N/A

20	**RESISTANCE TO CORROSION**		**N/A**
	Test made after having removed all grease by immersion in a degreasing agent for (10 ± 1) min, (10 ± 1) min in a 10 % solution of ammonium chloride, (10 ± 1) min in a box containing air saturated with moisture and (10 ± 1) min at (100 ± 5) °C		-
	No signs of rust		N/A

21	**ELECTROMAGNETIC COMPATIBILITY (EMC)**		**N/A**
	No tests necessary		-

ANNEX 1	TABLES

Clause	Requirement + test / Result - Remark	Verdict

12.9	TABLE: mechanical strenght of screws				P
threaded part identification (e.g. fixing means for cover)	diameter of screw thread (mm)	column number – Table 4 (I, II, III or IV)	applied torque – Table 4 (Nm)	times (5/10)	no damage
earth contact	4	II	1,2	10	P
cover fixing	4	III	1,2	10	P
Supplementary information:					

14.2	TABLE: insulation resistance		N/A
test voltage applied between:		measured (MΩ)	required (MΩ)
body and a metal foil in contact with the internal surface			5
supplementary information:			

14.3	TABLE: electric strenght		N/A
	rated insulation voltage (V)…….:		
test voltage applied between:		test voltage (V)	flashover / breakdown (Yes/No)
supplementary information:			

15.3	TABLE: impact test		N/A
part of enclosure tested per Table 7 (A, B, C, D, E, F, G)	Total number of blows per part – Figure 10	height of fall (mm)	comments
supplementary information:			

16.1 - 16.2	TABLE: ball pressure test of insulating materials		N/A
	allowed impression diameter (mm)…….:	≤2	-
part under test		test temperature (°C)	impression diameter (mm)
supplementary information:			

18	TABLE: glow-wire test				N/A
part under test	material designation	test temperature (°C)	visible flame and sustained glowing (Y/N)	flames and glowing extinction time	ignition of the tissue paper (Y/N)
supplementary information:					

19	TABLE: resistance to tracking		N/A
part under test	material designation	test voltage (V)	flashover / breakdown (Y/N)
supplementary information:			

ANNEX 2	PHOTO DOCUMENTATION

ANNEX 3	LABORATORY EQUIPMENTS

code	type	manufacturer	model	serial	certificate of calibration	calibration due date
LAB001	datalogger	HP	34970A	US37027411	LAT 135 S.13926.T	20/09/2023
LAB010+ LAB011	thermoigrometer	Delta Ohm	HD2101.1R + HP472AC R	15036059 + 16017312	LAT 238 3400-22	21/09/2023
LAB004	multimeter	HP	34401A	US36099959	LAT 135 E-3676-68455	19/09/2023
LAB008	electrical safety tester	Schleich	GLP2-i	2347	LAT 238 0714CT-22	22/09/2023
LAB021	torque srewdriver	Fervi	0806/020	Q70600255	T2i 2690/22-2805/22-2806/22	28/10/2023
LAB022	dynamometer	Sauter	FH2K	5B15L01144	T2i 2689/22	27/10/2023
LAB025	vernier caliper	Metrica	vernier caliper	SC 2927	LAT 137 S1474/22	27/10/2023
LAB012	analizer	Everfine	PF9800	YG100661N11 120215	LAT 046 373101	14/10/2023
LAB057	stopwatch	Decathlon	ON START 310	00473828553 8	LAT 056 22-0145	11/02/2024
LAB058	ambient datalogger	Testo	Saveris 2 H1	0054737942	LAT 238 0537-22	15/02/2024
LAB059	anemometer	Testo	440+0635 1051	83625005+63 237316	LAT 124 22000967	16/03/2024
LAB064+ LAB065	dynamometer	AEP	TCE-TM25kN + DFI2	164162 + 6962	03214 23 I + 03216 23 I	16/01/2025
	Petrolium spirit (n-Hexane)	Merck	1.04374.1000	K54108474	coa K54108474	2027

END OF REPORT