
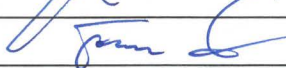




Test Report issued under the responsibility of:



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.....	T211-0540/18
Date of issue.....	2018-08-24
Total number of pages	42 pages
Name of Testing Laboratory preparing the Report	SIQ Ljubljana SIQ Ljubljana is accredited by Slovenian Accreditation with accreditation number LP-009 in the field of testing Tržaška cesta 2, SI-1000 Ljubljana, Slovenia
Applicant's name	ALING – CONEL d.o.o.
Address	Železnička 10, RS-21432 Gajdobra, Serbia
Test specification: Standard IEC 60670-22:2003, AMD1:2015 to be used in conjunction with IEC 60670-1:2015 Test procedure CB Scheme Non-standard test method N/A	
Test Report Form No.	IEC60670_22A
Test Report Form(s) Originator	IMQ
Master TRF	Dated 2017-02
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Test item description	Surface Mounted Installation Box	
Trade Mark	ARMOR LINE	
Manufacturer.....	ALING – CONEL d.o.o., Železnička 10, RS-21432 Gajdobra, Serbia	
Model/Type reference	art.292.x; art.293.x (where x is the color code mark: 1 - gray)	
Ratings	500 V~; IP55	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	
Testing location/ address	SIQ Ljubljana SIQ Ljubljana is accredited by Slovenian Accreditation with accreditation number LP-009 in the field of testing Tržaška cesta 2, SI-1000 Ljubljana, Slovenia	
Tested by (name, function, signature)	Tibor Kokelj	
Approved by (name, function, signature) ..	Tomaž Knez	
<input type="checkbox"/>	Testing procedure: CTF Stage 1:	
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature) ..		
<input type="checkbox"/>	Testing procedure: CTF Stage 2:	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature) .		
Approved by (name, function, signature) ..		
<input type="checkbox"/>	Testing procedure: CTF Stage 3:	
<input type="checkbox"/>	Testing procedure: CTF Stage 4:	
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) .		
Approved by (name, function, signature) ..		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment): <ul style="list-style-type: none">- Attachment No.1: National deviations (3 pages)- Attachment No.2: Documentation (8 pages)- Attachment No.3: Photos (3 pages)	
Summary of testing:	
Tests performed (name of test and test clause): All applicable tests were performed. See test report for details.	Testing location: SIQ Ljubljana Mašera-Spasičeva ulica 10, SI-1000 Ljubljana, Slovenia
Summary of compliance with National Differences (List of countries addressed): All CENELEC countries	
<input checked="" type="checkbox"/> The product fulfils the requirements of IEC 60670-22:2003, AMD1:2015 to be used in conjunction with IEC 60670-1:2015 <input checked="" type="checkbox"/> The product fulfils the requirements of EN 60670-22:2006 to be used in conjunction with EN 60670-1:2005, A1:2013	

Copy of marking plate: (example)



Test item particulars		
7.1 Nature of material	<input type="checkbox"/> 7.1.1	Insulating
	<input checked="" type="checkbox"/> 7.1.2	Metallic
	<input type="checkbox"/> 7.1.3	Composite
	<input type="checkbox"/> 7.1.4	Natural or synthetic rubber or mixture of both
7.2 type of installation	<input type="checkbox"/> 7.2.1	Flush, semi-flush in solid walls, ceilings or floors
	<input type="checkbox"/> 7.2.1.1	not suitable for installation into concrete
	<input type="checkbox"/> 7.2.1.2	suitable for installation into concrete with a maximum temperature during the casting process of +60 °C
	<input type="checkbox"/> 7.2.1.3	suitable for installation into concrete with a maximum temperature during the casting process of +90 °C
	<input type="checkbox"/> 7.2.2	Flush, semi-flush in hollow walls, hollow ceilings, hollow floors or furniture
	<input type="checkbox"/> 7.2.2.1	Class Ha
	<input type="checkbox"/> 7.2.2.2	Class Hb for walls
	<input type="checkbox"/> 7.2.2.3	Class Hb for ceilings
	<input checked="" type="checkbox"/> 7.2.3	Surface mounting on walls, ceilings, floors or furniture
7.3 type of inlets (outlets)	<input checked="" type="checkbox"/> 7.3.1	With inlets for sheathed cables for fixed installations
	<input type="checkbox"/> 7.3.2	With inlets for flexible cables
	<input type="checkbox"/> 7.3.3	With inlets for plain or corrugated conduits
	<input type="checkbox"/> 7.3.4	With inlets for threaded conduits
	<input type="checkbox"/> 7.3.5	With inlets for other types of conductors/cables or conduits
	<input type="checkbox"/> 7.3.6	With spouts (hub)
	<input type="checkbox"/> 7.3.7	Without inlets. Inlet openings will be made during installation
7.4 Clamping means	<input type="checkbox"/> 7.4.1	With cable retention
	<input type="checkbox"/> 7.4.2	With cable anchorage
	<input type="checkbox"/> 7.4.3	With clamping means for flexible conduit
	<input checked="" type="checkbox"/> 7.4.4	Without clamping means
7.5 Minimum temperatures during installation	<input type="checkbox"/> 7.5.1	-5 °C
	<input type="checkbox"/> 7.5.2	-15 °C
	<input checked="" type="checkbox"/> 7.5.3	-25 °C
7.6 degree of protection against access to hazardous parts and against harmful effects:		IP55
7.7 The degree of protection against harmful effects due to the ingress of water:		IP55
7.8 The degree of protection of the part mounted inside the hollow walls of the boxes classified according to 7.2.2.1	<input type="checkbox"/> 7.8.1	IP2X
	<input type="checkbox"/> 7.8.2	>IP2X
	<input type="checkbox"/> 7.8.3	Boxes intended to receive claws
	<input type="checkbox"/> 7.8.4	Boxes intended to receive other means

7.9	The provision for fixing accessories to boxes	<input type="checkbox"/> 7.9.1	boxes supplied with screws
		<input type="checkbox"/> 7.9.2	boxes intended to received screws
		<input type="checkbox"/> 7.9.3	boxes intended to received claws
		<input checked="" type="checkbox"/> 7.9.4	boxes intended to received other means
7.101	Method of fixing the terminals or connecting devices in the connecting box	<input type="checkbox"/> 7.101.1	With integrated clamping units
		<input type="checkbox"/> 7.101.2	With incorporated terminals or connecting devices
		<input type="checkbox"/> 7.101.3	With provisions for subsequent incorporation of terminals or connecting devices
		<input checked="" type="checkbox"/> 7.101.4	Without fixing (for floating terminals or connecting devices)

Possible test case verdicts:

- test case does not apply to the test object : N/A
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)

Testing :

Date of receipt of test item : (2018-04-27)

Date (s) of performance of tests : (2018-06-22) – (2018-08-23)

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

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

Throughout this report a ☒ comma / ☐ point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 6.2.5 of IEC60730-2:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided..... : ☐ Yes ☒ Not applicable

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies)..... : ALING – CONEL d.o.o.,
Železnička 10, RS-21432 Gajdobra,
Serbia

General product information:

Surface mounted installation boxes are of the same construction, but with different number of inlet/outlet grommets:

- art.292.x (4 inlet/outlet grommets)
- art.293.x (6 inlet/outlet grommets)

IEC 60670-22			
Clause	Requirement + Test	Result - Remark	Verdict
8	MARKING		P
8.1	Boxes and enclosures are marked with:		P
	a) name, trade mark or identification mark of the manufacturer or the responsible vendor..... :	ALING CONEL	P
	Enclosures are marked in addition with:		P
	b) IP code for degree of protection against access to hazardous part and against ingress of solid objects if higher than IP4X..... :	IP55	P
	c) IP code against harmful ingress of water if higher than IPX2..... :	IP55	P
	d) marking on cover of flush enclosures for rough surfaces and where IP is dependent on the surface (Fig. 5)..... :	IP ^^^	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	Engraved on the front part and marked on the marking label	P
	e) type reference, which may be a catalogue number..... :	On marking label	P
	f) for box classified as 7.2.2.2 and 7.2.2.3 the minimum internal volume shall be marked on the inside of the enclosure		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:		P
	g) maximum temperature during the building process if 90 ° for box classified as 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..... :	-25°C.....+60°C (engraved on back side of the boxes; also on marking label)	P
	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 integrated or incorporated terminals or connecting devices		N/A
	l) rated connecting capacity (mm ² or □ or AWG). :		N/A
	m) maximum number of conductors to be placed in the box. :		N/A
	n) boxes and enclosures classified accord to 7.101.1 or 7.101.2 shall be marked with rated current		N/A
	Further information given in the manufacturer's catalogue or in an instruction sheet..... :	See appended Annex	N/A

IEC 60670-22			
Clause	Requirement + Test	Result - Remark	Verdict
	Higher degree of protection achieved by the use of special parts: an instruction sheet is provided and it indicates the higher degree of protection		N/A
8.2	Marking is durable and easily legible		P
	Rubbing test 15 s with water and 15 s with petroleum spirit		P
	After the test: marking still legible		P
9	DIMENSIONS		N/A
	Boxes and enclosures comply with the appropriate standard sheets, if any	No standard sheets used Outer dimensions: 80 x 70 mm	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, as show in Figure 2, which are accessible after installation		P
	Additional test at $(35 \pm 2) ^\circ\text{C}$ with probe 11 of IEC 61032 on enclosures according to 7.1.1 and 7.1.3 and 7.1.4 with parts of thermoplastic or electrometric material applied to:		P
	- all places, except membranes or the like, where yielding of insulating material could impair the safety, with a force of 75 N		P
11	PROVISION FOR EARTHING		P
11.1	Boxes and enclosures with exposed conductive parts		P
	- provided with an earthing means of low resistance		P
	- have provision for the fitting of such an earthing means	KATERA SE PRAV IMENUJE?!?!?	N/A
	Earthing means or provision for the fitting are located so that:		P
	- the means is readily accessible, and		P
	- the removal of an accessory, does not disturb the continuity of the earthing circuit, and		P
	- the means is not part of a removable cover	On main part	P
	Exposed conductive parts of covers or cover-plates are connected through a low resistance connection to the earthing means		P

IEC 60670-22			
Clause	Requirement + Test	Result - Remark	Verdict
	Resistance $\leq 0,05 \Omega$ (Ω)..... :	0,0076 Ω	P
	the earthing means or the provision for the fitting of such an earthing means shall be located so that:		P
	the means is readily accessible through the open face of the box		P
	the removal of an accessory mounted in the box does not disturb the continuity of the earthing circuit		P
	the means is not part of a removable cover, back, or side of the box		P
11.2	Boxes and enclosures of insulating material classified according to 7.2.2.2 and 7.2.2.3		N/A
	Provided with a minimum of one earthing strap with one screw terminal for earthing purposes with a connecting capacity $\geq 4 \text{ mm}^2$		N/A
	Design of earthing strap according to Figure 4		N/A
	Earthing strap is securely fastened to the box or enclosure		N/A
	Compliance is checked by the test in 16.3.2		N/A
11.3	Boxes and enclosures with removable sides according to 7.1.2		N/A
	Constructed so that the electrical bond between separable parts includes at least one threaded screw connection		N/A
11.4	Earthing terminal threads		P
	Threads of earthing terminal are not stripped		P
	Torque of Table 4 applied on screw (Nm) :	0,8 Nm	P
	Greater values may be used if so stated by the manufacturer		N/A
	During the test: no damage such as impairing the further		P

12	CONSTRUCTION		P
12.1	Boxes and enclosures are constructed without sharp edges		P
	The inner and outer surfaces of a box or cover have the following characteristics:		P
	- not subject to peeling, scaling or flaking, and		P
	- smooth and free from blisters, crack and other defects		P
12.2	Lids, covers or cover-plates or part of them		P

IEC 60670-22			
Clause	Requirement + Test	Result - Remark	Verdict
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
	the fixing means of cover or cover plate be captive		P
	Fixing means of covers or cover plates if serve also to fix the connecting device, it maintains the connecting device in correct position after removal of the cover or cover plate		N/A
12.2.2	Screw-type fixing		P
	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		P
	Lids, covers or cover-plates whose fixing is of the screw-type		P
12.2.3	Non-screw-type fixing operable without the use of a tool or a key		N/A
12.2.3.1	a box or enclosure intended to accept a lid, cover, or cover plate with non-screw-type fixing operable without the use of a tool or a key shall be provided with means to fix the lid, cover or cover plate		N/A
	Lids, covers or cover-plates whose removable is obtained by applying a force according to the requirements in table 2 in a direction perpendicular to the mounting surface when their removal may give access with test probe B of IEC 61032		N/A
	- to live parts		N/A
	- to non-earthed conductive parts separated from live parts by basic insulation		N/A
	- only to insulating parts, earthed conductive parts, conductive parts separated from live parts by double or reinforced insulation, or live parts of SELV circuits according to IEC 61140 having a voltage ≤ 25 V a.c. or 60 V d.c.		N/A
12.2.3.2	Verification of the non-removal of the lids, covers or cover-plates		N/A
	Force according to Table 2 applied for 1 min in a direction perpendicular to the mounting surface .. :	10 N / 20 N / 40 N / 80 N	N/A
	Lids, covers or cover-plates not come off		N/A
	For flush-mounting boxes or enclosures, test repeated on new specimens with a sheet of hard material, $(1 \pm 0,1)$ mm thick, fitted on the wall around the supporting frame according to Figure 5		N/A
	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		N/A
	Force not exceeding 120 N applied 10 times in a direction perpendicular to the mounting/supporting surface: lids, covers or cover-plates come off	Screw type fixing	N/A

IEC 60670-22			
Clause	Requirement + Test	Result - Remark	Verdict
	After the test: no damage		N/A
	For flush-mounting boxes or enclosures, test repeated on new specimens with a sheet of hard material, (1 ± 0,1) mm thick, fitted on the wall around the supporting frame according to Figure 5		N/A
	Force not exceeding 120 N applied 10 times in a direction perpendicular to the mounting/supporting surface: lids, covers or cover-plates come off		N/A
	Lids, covers or cover-plates come off		N/A
	After the test: no damage		N/A
12.2.3.4	Verification of the outline of lids, covers and cover-plates		P
	Gauge of Figure 6 applied according to Figure 7 for verification of the outline of lids, covers or cover-plates: distances between face C of gauge and outline of side under test, not decrease : complying / <u>not complying</u>		—
12.2.3.5	Verification of grooves, holes and reverse tapers		N/A
	Gauge of Figure 9 applied according to Figure 10 with a force of (1 ± 0,2) N: gauge not enter more than 1 mm : complying / not complying		—
12.2.4	Non screw-type fixing operable with the use of a tool or key		N/A
	Lids, covers or cover-plates whose fixing is not dependent on screws and whose removal is obtained by using a tool and/or a key according to the manufacturer's instructions: tests according to 12.2.3		N/A
	Force not exceeding 120 N applied in a direction perpendicular to the mounting/supporting surface: lids, covers or cover-plates need not come off		N/A
	For flush-mounting boxes or enclosures, test repeated on new specimens with a sheet of hard material, (1 ± 0,1) mm thick, fitted on the wall around the supporting frame according to Figure 5		N/A
	Lids, covers or cover-plates not come off		N/A
12.3	Drain holes		P
	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) : Declared IP55 4 places for opening of a drain hole, each 5,6 x 5,7 mm = 31,9 mm ²		P
	Drain holes: effective		P
12.4	Mounting of enclosures		P
	Enclosures have provisions for their suitable attachment according to the method of installation		P
	Conductive parts of fixing means inside the box or enclosure are surrounded by insulation which projects above the top of the fixing means by an amount of ≥ 10 % of the maximum width of the cavity for the fixing means (mm) : 10% of 6,2 mm ≥ 35 mm		P

IEC 60670-22			
Clause	Requirement + Test	Result - Remark	Verdict
12.5	Boxes and enclosures with inlets for flexible cables		N/A
	Inlets (outlets) provided in boxes and enclosures classified according to 7.3.2, the flexible cables can be easily introduced, and		N/A
	- no damage the flexible cable where it enter, or		N/A
	- enclosure impairing its further use		N/A
12.6	Boxes and enclosures with inlets for applications other than flexible cables		P
	Inlet openings classified according to 7.3 other than 7.3.2, if any, allow the introduction of:		P
	- a conduit or a suitable fitting, and/or		N/A
	- the protective covering of the cable		P
	Inlet opening for conduit entries:		P
	- capable of accepting either conduits of sizes, or a combination of sizes, according to IEC 60423 and/or IEC 60981		N/A
	- same requirement in at least two inlet openings if there are more than one		N/A
12.7	Boxes and enclosures with a cable anchorage(s)		N/A
	In boxes and enclosures classified according to 7.4.2 the connection of the conductors of the flexible cable are relieved from strain		N/A
	Clear how relief from strain and prevention of twisting is intended to be effected		N/A
	Cable anchorages are:		N/A
	- suitable for the different types of flexible cable		N/A
	- at least one part of it is integral with, or permanently fixed to, one of the component parts of the box		N/A
	- of insulating material or provided with an insulating lining fixed to the metal parts		N/A
	Test of effectiveness of the cable anchorage:		N/A
	- external dimensions of flexible cable (mm) :		—
	- clamping screws tightened with a torque equal to 2/3 of that specified in Table 4 (Nm) :		—
	- glands tightened with a torque equal to that specified in Table 5 :		—
	It is not possible to push the flexible cable into the specimen by more than 1 mm with a force specified in Table 3 (N)..... :		N/A
	Pull force as specified in Table 3 applied 50 times for 1 s (N)..... :		—

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Clause	Requirement + Test	Result - Remark	Verdict
	Torque as specified in Table 3 applied for (15 ± 1) s (Nm)..... :		—
	After the test: displacement ≤ 2 mm (mm)..... :		N/A
	Cable anchorage: no damage		N/A
12.8	Boxes and enclosures with cable retention means		N/A
	Cable retention means of boxes and enclosures classified according to 7.4.1 retain the cable in place		N/A
	Boxes and enclosures according to 7.5.2 or 7.5.3, tested at (-15 ± 2) °C and (-25 ± 2) °C respectively		N/A
	Test with cables as declared by the manufacturer, fitted according to the manufacturer's instructions and loaded with an axial force of (20 ± 1) N applied for 1 min:		N/A
	Type of cable/maximum nominal cross-sectional area (mm ²)..... :		—
	After the test: displacement ≤ 3 mm (mm)..... :		N/A
	Type of cable/minimum nominal cross-sectional area (mm ²)..... :		—
	After the test: displacement ≤ 3 mm (mm)..... :		N/A
12.9	Knock-out inlets (outlets) intended to be removed by mechanical impact		N/A
12.9.1	General		N/A
	It is possible to remove knock-out by mechanical impact without damaging the box	No knock-outs	N/A
	Chips or burrs are not accepted in knock-out for cables		N/A
	Chips and burrs are disregarded in knock-out for conduits and/or for use with a grommet or a membrane		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

IEC 60670-22			
Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
	Removal test of knock-outs with a tool as stated by the manufacturer, without conditioning:		N/A
	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 \pm 10 min (boxes and enclosures according to 7.1.1 or 7.1.3)		N/A
	Test temperature (°C)..... :		—
	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
12.9.4	Flat surfaces surrounding knock-outs		N/A
	Knock-outs intended for the use of grommets, glands or fittings shall be located in flat surfaces		N/A
	projections in the flat surface shall be prohibited		N/A
12.10	Screw fixings		P
	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		P
	Verification of the mechanical strength of screws	See appended table 12.10	P
12.11	Fixing of boxes and enclosures classified according to 7.2.1		N/A
	Fixing means provided for flush type boxes and enclosures other than for hollow walls.....:		N/A
	Screws not supplied with box or enclosures can be provided according to the manufacturer's instruction		N/A

IEC 60670-22			
Clause	Requirement + Test	Result - Remark	Verdict
	Screws, additional mechanical supports or design features, are considered adequate fixing means		N/A
	Boxes and enclosures not fulfilling at least one of the above requirement and having an internal volume less than 400 cm ³ tested as follow:		N/A
	- the block is filled by the following material.....:		N/A
	- assembly is kept at ambient temperature for 10 (+1/0) days		—
	- auxiliary device described in Figure 13 is mounted on the specimen and the screw are tightened with a torque equal to 2/3 of that specified in table 4.....:		—
	After the test, displacement of the specimen from the mounting block $\leq 0,5$ mm:		N/A
12.12	Boxes and enclosures classified according to 7.2.2.1		N/A
	Boxes and enclosures for hollow walls or the like classified according to 7.2.2.1 provide suitable means for fixing the box or the enclosure to hollow walls , hollow ceilings, hollow floor or furniture		N/A
	Fixing means not rely the on the cable management system		N/A
	Box or enclosure mounted in a test wall:		N/A
	- according to the manufacturer's instructions		—
	- sheet of plywood 500 mm wide x 500 mm high, (10 \pm 1) mm thick		—
	a) Pull and torque test: lever loaded with a torque of 3 Nm (Figure 15a) and a force of 100 N (Figure 15b) for 1 min		N/A
	After this tests: no damage, displacement of the lever no more than 2 ° (°).....:		N/A
	b) Displacement test: lever loaded with a torque of 3 Nm (Figure 15c) for 1 min		N/A
	After the test: edge of the box not displaced by more than 1 mm (mm).....:		N/A
12.13	boxes and enclosures classified according to 7.2.2.2 and 7.2.2.3		N/A
	boxes and enclosures for hollow walls or the like classified according to 7.2.2.2 and 7.2.2.3 shall have suitable means for fixing the box to hollow walls and hollow ceiling		N/A
	the fixing means shall not rely on cable management system		N/A
	the compliances is checked by the tests in 12.13.2, 12.13.3, 12.13.4 or 12.13.6 as applicable		N/A
12.13.2	Boxes intended for mounting to a wood structural member of a wall		N/A
	Box mounted to a (45 x 90) mm wood structural member in a vertical position; force of 225 N applied for 5 min		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	After the test: no pulling out of the nails or screws		N/A
	No movement of the face of the box of more than 3 mm (mm)		N/A
12.13.3	Boxes intended for mounting to a wood structural member of a ceiling		N/A
	Box mounted to a (35 x 190) mm wood structural member in vertical position; force of 225 N applied for 1 min		N/A
	During the test: deflection of the face of the box does not exceed 6 mm (mm)		N/A
12.13.4	Boxes intended for mounting to a steel-stud structural member of a wall		N/A
	Box mounted to a steel-stud structural member according to Figure 16; force of 180 N applied for 5 min in the direction to push the box into the wall opening		N/A
	During the test with a force of 180 N applied for 5 min in the direction to push the box into the wall opening: deflection of the box does not exceed 2 mm (mm)		N/A
	During the test with a force of 180 N applied for 5 min in the direction to pull the box out of the wall opening: deflection of the box does not exceed 2 mm (mm)		N/A
12.13.5	Internal volume of boxes and enclosures classified according to 7.2.2.2 and 7.2.2.3		N/A
	Verification of the declared internal volume for boxes, enclosures, raised covers and box extensions		N/A
	Verification of the volume of each partitioned section for box or enclosure with a partition		N/A
	Checked by the test of clause 12.16		N/A
12.13.6	Boxes intended for mounting in a finished structure		N/A
	Supporting means not crack or break nor the face of the box be permanently displaced more than 3,2 mm from the plane of the face of the test surface when measured 1 minute after the test load is removed		N/A
	Six boxes intended for use in walls or eight boxes intended for use in ceilings are installed in prescribed plywood sheet or in a finished surface in accordance with the manufacturer's instructions		—
	Screws for the box supporting means are tightened as follow:		N/A
	- in accordance with the manufacturer's instructions or		N/A
	- in accordance with column 4 of Table 4.		N/A
	Following installation, a force of 222 N is applied for 5 min		N/A
12.14	Cable gland entry		N/A
	Torque test: glands provided with a metal rod tightened and loosened 10 times with a torque specified in Table 5 for 1 min \pm 5 s		N/A
	- diameter of test rod (mm)		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- type of material (metal / insulating)..... :		—
	- torque (Nm) :		—
	After the test: no damage		N/A
12.15	Boxes and enclosures with inlets (outlets) or spouts (hubs) for conduits		N/A
12.15.1	Boxes and enclosures 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 enclosures classified according to 7.4.3 withstand the tests of 12.15.2 and 12.15.3		N/A
12.15.2	Enclosures with inlet spout for conduits: a minimum size piece of conduit pressed for 1 min \pm 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 $(60 \pm 2)^\circ$		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 enclosures		N/A
	Declared internal volume of the box or enclosure and each partitioned section of a box or enclosure, raised cover and box extension is measured		N/A
	The volume of a side pocket provided to increase the volume of a box or enclosure is calculated using a depth-of-pocket not more than the smallest dimension of the opening into that side pocket		N/A
	Difference in the volume of water in the measuring cylinder measured before and after the filling of the box, enclosure or raised cover indicates the volume of the box		N/A
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
	Test made on boxes classified according to 7.101.4 only if l) and m) of 8.1 are marked or declared		N/A
12.102	Retention means for terminals or connecting devices withstand the mechanical stresses		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Connected conductors in accordance with the relevant Part(s) 2 of IEC 60998 for the type of connecting device used..... :		—
	After the test: no harmful deformation, cracks or similar damage :		N/A
12.103	Connecting 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		P
13.1.1	Specimens of insulating and composite boxes and enclosures, glands, grommets and replaceable membranes placed in a heating cabinet at $(70 \pm 2) ^\circ\text{C}$ for (168 ± 4) h and then kept at room temperature for (96 ± 4) h		P
	Glands tightened with a torque equal to 2/3 of the torque applied during the test of 12.14 (Nm) :	/	—
	Greater torque value stated by the manufacturer, if any (Nm) :	/	—
	After the test: no harmful deformation or similar damage	Tested only on grommets	P
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		P
	Specimens that have been subjected to the treatment specified in 13.1.1 placed in a heating cabinet at $(40 \pm 2) ^\circ\text{C}$ for $2 \text{ h} \pm 15 \text{ min}$		P
	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, blanking-plug and/or membranes not deformed to such an extent that live parts of any included accessory become accessible		P
	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		P
	Test repeated on same enclosures fitted with grommets, blanking-plug and/or membranes not subjected to any treatment		P
	After the test: no harmful deformation, cracks or similar damage		P

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Clause	Requirement + Test	Result - Remark	Verdict
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		P
	Test on enclosures fitted with grommets, blanking-plug and/or membranes not subjected to any ageing treatment kept for 2 h in a refrigerator		P
	Test temperature (°C) :	-25°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		P
	After the test: no harmful deformation, cracks or similar damage		P
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 :	IP55	P
	for box and enclosures classified according to 7.2.2.1 the above requirements applies also to the part mounted inside the hollow wall according to classification 7.8		N/A
	compliance is checked by the appropriate test of IEC 60529 under the following tests conditions		P
	Enclosures mounted as in normal use according to the manufacturer's instructions		P
	box and enclosures classified according to 7.2.2.1, the test on the part mounted inside the wall is made on a box mounted so that the rear part is accessible for the test		N/A
	unless otherwise stated herein, where the enclosure has drain holes, at least one open drain hole shall be in the lowest position	Not opened	N/A
	- type of cable, smallest cross-sectional area (mm²) :	H05VV-F 3 x 1.5 mm²; NYM 3 x 1.5 mm²	—
	- type of cable, largest cross-sectional area (mm²):	H05VV-F 5 x 2.5 mm²; NYM 5 x 2.5 mm²	—
	Enclosures mounted as in normal use with screwed glands or grommets fitted with conduits as declared by the manufacturer:		
	- smallest diameter or dimensions (mm) :		—
	- largest diameter or dimensions (mm)..... :		—
	Fixing screws of the cover or cover-plate tightened with a torque equal to 2/3 of the value of Table 4 used for the test of 12.10 (Nm) :		—

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Clause	Requirement + Test	Result - Remark	Verdict
	Greater torque value stated by the manufacturer, if the relevant information is provided (Nm) :	-	—
	- IP5X: test performed as specified in IEC 60529 category 2 with the drain holes, if any, not opened		P
	- 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		P
	- 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 :	IP55	P
	Enclosure dimensions: reference surface S (m²) / perimeter (m)..... :		—
	Appropriate test performed on surface, flush or semi-flush enclosures as specified in IEC 60529 under the following conditions:		P
	- dimension S ≤ 0,04 m² or perimeter ≤ 0,8 m according to 13.3.2 and 13.3.3	0,0056 m²	P
	- dimension S > 0,04 m² and perimeter > 0,8 m according to 13.3.2 and 13.3.4		N/A
	Enclosures with screwed glands or grommets fitted with cables as declared by the manufacturer:		P
	- type of cable, smallest cross-sectional area (mm²) :	H05VV-F 3 x 1.5 mm²; NYM 3 x 1.5 mm²	—
	- type of cable, largest cross-sectional area (mm²):	H05VV-F 5 x 2.5 mm²; NYM 5 x 2.5 mm²	—
	Enclosures with screwed glands or grommets fitted with conduits as declared by the manufacturer:		N/A
	- smallest diameter or dimensions (mm)..... :		—
	- largest diameter or dimensions (mm) :		—
	Fixing screws of the cover or cover-plate tightened with a torque equal to 2/3 of the value of Table 4 used for the test of 12.10 (Nm) :		—
13.3.2	Surface-mounting enclosures mounted as for normal use		P
	Flush type and semi-flush type enclosures fixed in a test wall:		N/A
	- according to the manufacturer's instructions		N/A
	- according to Figure 19		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Enclosures fitted with cables having conductors of the largest and smallest cross-sectional area as declared by the manufacturer		—
	IPX3 and IPX4 enclosures: use of oscillating tube (Figure 4) or spray nozzle according to IEC 60529 (Figure 5)		—
13.3.3	Immediately after the test no more than 0,2 ml x S (cm ²) water in the enclosure (ml).....		P
	Specimens (except connecting boxes classified according to 7.101.4) withstand an electric strength test specified in 14.3 started within 5 min of the completion of IP test		P
13.3.4	Immediately after the test: indicator paper still dry		P

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:		N/A
	- 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 appended table 14.2	N/A
14.2.101	Boxes with integrated or incorporated terminals or connecting devices: each clamping unit connected with conductors of smallest and largest cross-sectional area (mm ²).....	No integrated terminals	—
14.3	Electric strength: a.c. test voltage applied for 1 min	See appended table 14.3	N/A

15	MECHANICAL STRENGTH		P
15.1	Boxes and enclosures have adequate mechanical strength		P
	Non-metallic boxes and enclosures for use in cast concrete classified according to 7.2.1.2 or 7.2.1.3 : by the test of 15.2		N/A
	Non-metallic boxes and enclosures for use in cast concrete and able to withstand 90°C during the process classified according to 7.2.1.3, by the test of 15.3		N/A
	for non-metallic boxes and enclosures classified according to :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	a) 7.2.3, by the test of 15.4		N/A
	b) 7.2.1 or 7.2.2 and also classified according to 7.5.2 or 7.5.3, by the test of 15.4		N/A
	for non-metallic boxes and enclosures, the parts which are intended to be accessible after completion of the building process, by the test of 15.4		N/A
	for boxes and enclosures classified according 7.1.4, by the test of 15.5		N/A
	when an enclosure is too large to fit the test apparatus shown in annex D using the spring hammer (of IEC 600068-2-75:1997)		N/A
15.2	Impact test at low temperature		N/A
	- (-5 ± 2) °C for boxes and enclosures classified according to 7.5.1		N/A
	- (-15 ± 2) °C for boxes and enclosures classified according to 7.5.2		N/A
	- (-25 ± 2) °C for boxes and enclosures classified according to 7.5.3		N/A
	Specimens subjected to 5 blows with a mass of 1 kg falling from a height of 100 mm: no damage		N/A
	after the test no damage		N/A
	damage to the finish, small dents which do not reduce creepage distance or clearance below the value specified in table 102 and the small chips which do not adversely affect the protection against electric shock or harmful ingress of water are disregarded		N/A
15.3	Compression test		N/A
15.3.1	Boxes and enclosures are placed in a heating cabinet at (90 ± 5) °C for ($60 + 15$) min		N/A
	After cool down to ambient temperature: neither deformation nor damage		N/A
	Boxes and enclosures then placed between two flat hardwood plates and loaded with a force of (500 ± 5) N for 1 min \pm 5 s		N/A
	No deformation or damage		N/A
15.4	Impact test for boxes and enclosures		N/A
	Specimens subjected to blows by means of an impact test apparatus as described in IEC 60068-2-75 (test EHA) with equivalent mass of 250 g	See appended table 15.4	N/A
	Boxes classified according to 7.5.2 and 7.5.3 performed at the following temperature:		N/A
	- (-15 ± 2) °C for boxes classified according to 7.5.2		N/A
	- (-25 ± 2) °C for boxes classified according to 7.5.3		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	After the test: no damage		N/A
15.5	Compression test for enclosures made of nature or synthetic rubber or a mixture of both		N/A
	box and enclosure classified according to 7.1.4 shall withstand a load which can be expected in normal use		N/A
	a) Cover loaded with a force of 50N for 1min, deflecting $\leq 3\text{mm}$		N/A
	b) pressure of 50N/cm^2 for 1 min.		N/A
	after the test, no damage and compliance with this standard		N/A

16	RESISTANCE TO HEAT		N/A
16.1	Part of insulating material necessary to retain current-carrying parts		N/A
	Parts of insulating material necessary to retain current-carrying parts and/or parts of the earthing circuit in position: ball-pressure test according to IEC 60695-10-2 at $(125 \pm 2)^\circ\text{C}$ for (60 ± 5) min	See appended table 16.1-16.2	N/A
16.2	Part of insulating material not necessary to retain current-carrying parts		N/A
	Parts of insulating material not necessary to retain current-carrying parts and/or parts of the earthing circuit in position, even though in contact with them, and parts necessary to retain earthing terminals in position: ball-pressure test according to 16.1 but at $(70 \pm 2)^\circ\text{C}$	See appended table 16.1-16.2	N/A
	Parts of insulating material of flush-mounted enclosures classified according to 7.6.2: ball-pressure test according to 16.1 but at $(90 \pm 2)^\circ\text{C}$	See appended table 16.1-16.2	N/A
16.3	Boxes and enclosures of insulating materials classified according to 7.2.2.2 or 7.2.2.3		N/A
16.3.1	Mechanical strength		N/A
	Boxes and enclosures of insulating materials classified according to 7.2.2.2 or 7.2.2.3 :adequate mechanical strength at high temperature		N/A
	Rigid crossbar (Figure 25) secured across the face of the box with screws tightened with a torque according to Table 4 (Nm)..... :		—
	Total force of 180 N applied for 24 h to the face of the box at:		N/A
	- $(80 \pm 2)^\circ\text{C}$ for boxes and enclosures classified according to 7.2.2.2		N/A
	- $(105 \pm 2)^\circ\text{C}$ for boxes and enclosures classified according to 7.2.2.3		N/A
	After the assembly has been cooled down to ambient temperature:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- screws not have pulled out more than 6,3 mm (mm)..... :		N/A
	- torque used for removal the screws not exceeding 2,3 Nm (Nm)..... :		N/A
16.3.2	Part of insulating material necessary to retain current-carrying parts of earthing circuit		N/A
	Parts of insulating material necessary to retain earthing strap subjected to a pull test of 45 N for 5 min as follow:		N/A
	- one specimen tested in the condition as delivered and		N/A
	- one specimen tested after conditioning at 90 °C for 168 h		N/A
	Thread of the earthing terminal not stripped when applying a torque according to Table 4 (Nm)		N/A
	After each test: the earthing strap not become detached from the specimen		N/A
16.101	Connecting devices having parts of insulating material are sufficiently resistant to heat		N/A
16.101.1	Specimens or portions of them kept for 1 h in a heating cabinet at $(85 \pm 2) ^\circ\text{C}$		N/A
	During the test: no change impairing their further use and sealing compound, if any, not flow	No connecting devices	N/A
	After the test:		N/A
	- no access to live parts with probe B of IEC 61032 applied with a force not exceeding 5 N		N/A
	- markings still legible		N/A
16.101.2	Parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test according to 16.1	See appended table 16	N/A
16.101.3	Parts of insulating material necessary to retain current-carrying parts and parts of the earthing circuit in position: ball-pressure test according to IEC 60695-10-2 at $(125 \pm 2) ^\circ\text{C}$ for (60 ± 5) min		N/A
16.102	In connecting devices integrated in connecting boxes the temperature rise in normal use do not exceed 45 K		N/A
	Temperature rise test		N/A

17	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND		N/A
	Creepage distances, clearances and distances through sealing compound are not less than the values shown in Table 102 (not applicable to boxes for floating terminals or connecting devices classified according to 7.101.4	See appended table 17	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
18	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND FIRE		P
	Glow-wire test according to Clauses 4 to 10 if IEC 60695-2-11	See appended table 18	P
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 appended 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		N/A
	No signs of rust		N/A
21	ELECTROMAGNETIC COMPATIBILITY (EMC)		N/A
	No tests necessary		—

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Clause	Requirement + Test	Result - Remark	Verdict

12.10	TABLE: mechanical strength 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
Screw for fixing cover		2,92	II	0,50	5	P
Earthing screw		3,35	II	0,80	5	P
supplementary information:						

14.2	TABLE: insulation resistance			N/A
test voltage applied between:			measured (MΩ)	required (MΩ)
supplementary information: Metallic box				

14.3	TABLE: electric strength			N/A
	rated insulation voltage (V)			—
test voltage applied between:			test voltage (V)	flashover / breakdown (Yes/No)
supplementary information: Metallic box				

15.4	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: Metallic boxes				

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

IEC 60670-22			
Clause	Requirement + Test	Result - Remark	Verdict

17	TABLE: creepage distances, clearances and distances through sealing compound						N/A	
	rated voltage (V) :						—	
creepage distance dcr, clearance cl and distance through sealing compound dtsc at/of:			required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)	required dtsc (mm)	dtsc (mm)
			≥		≥		≥	
supplementary information:								

18	TABLE: glow-wire test					P
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)
Groomet		PVC 75 Shor	650°C	N	/*	N
supplementary information: *No ignition.						

19	TABLE: resistance to tracking			N/A
part under test		material designation	test voltage (V)	flashover / breakdown (Yes/No)
			175	
supplementary information:				

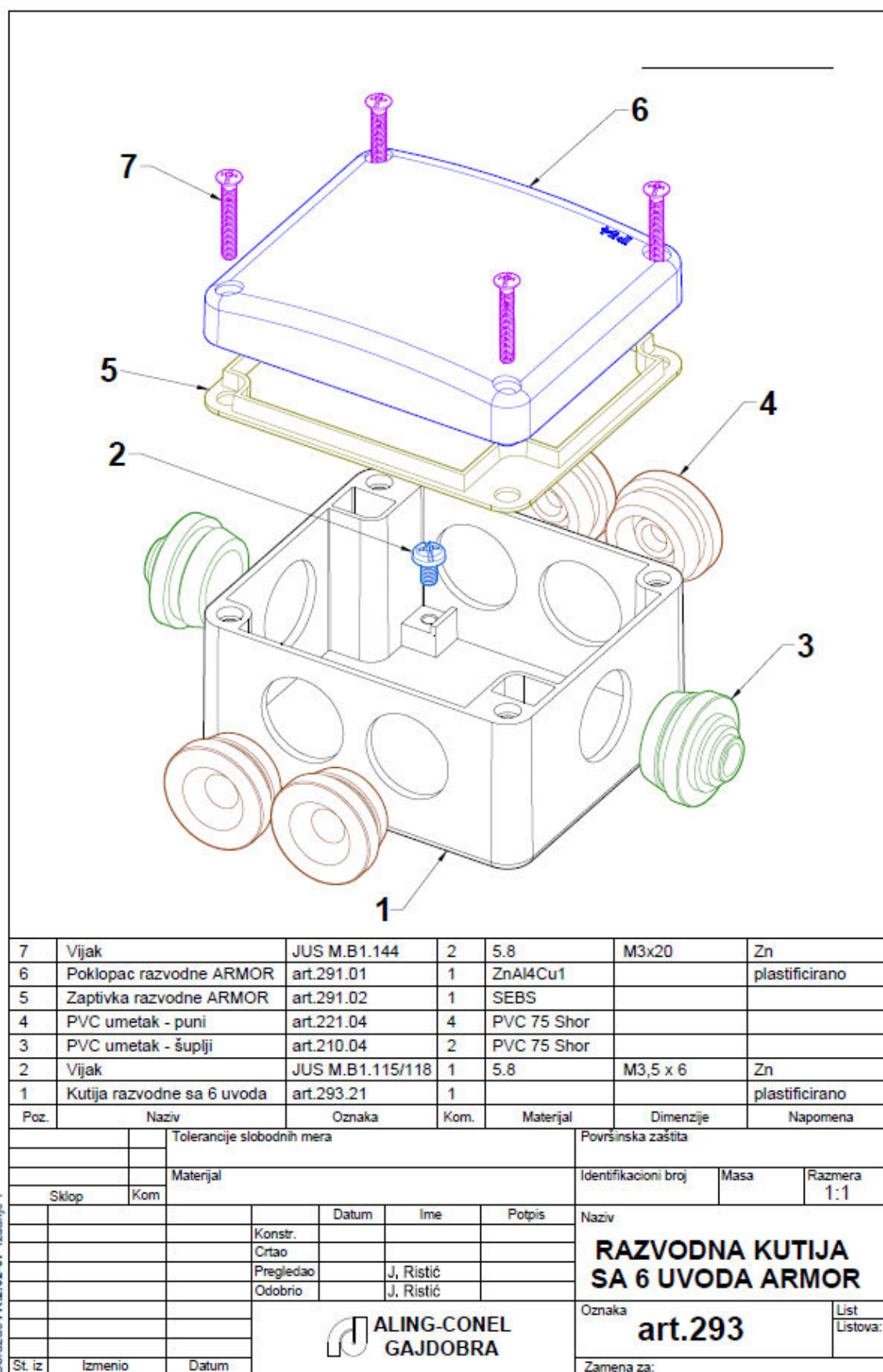
Attachment No. 1 (National deviations)

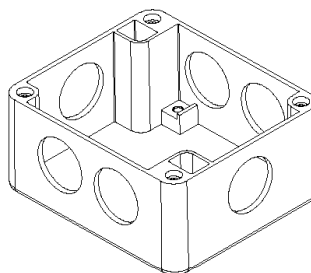
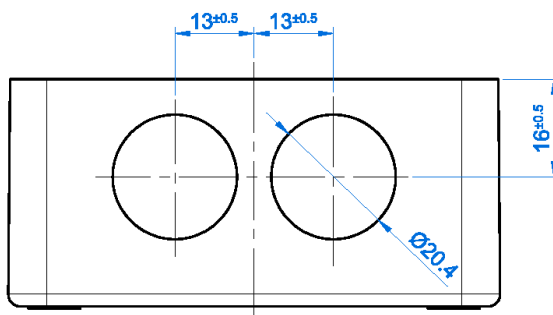
ATTACHMENT TO TEST REPORT IEC 60670-22 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Boxes and enclosures for electrical accessories for household and similar fixed electrical installations Part 22: Particular requirements for connecting boxes and enclosures	
Differences according	EN 60669-22:2006 used in conjunction with EN 60670-1:2005 + A1:2013
Attachment Form No.	EU_GD_IEC60670_22 (to be used with Test Report Form No. IEC60670_22A)
Attachment Form Originator.....	SIQ Ljubljana
Master Attachment Form	2018-07

EN 60669-22			
Clause	Requirement + Test	Result - Remark	Verdict
2	Normative references		P
	Replace the reference to IEC 60999-1 by:		P
	IEC 60999 (series), Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units		P
3	Definitions		P
3.107	Replace by:		P
	3.107 Terminal Conductive part of one pole comprising one or more clamping unit(s) and insulation if necessary		P
4	General requirements		P
	Replace the text by:		P
	This clause of Part 1 is applicable with the following addition		P
	Terminals and connecting devices incorporated in connecting boxes shall comply with the requirements of the EN 60998 series; integrated clamping units shall comply with the requirements of the EN 60999 series.		P
6	Ratings		P
6.1	Replace by:		P
	6.1 The preferred values of the rated voltage of the integrated or incorporated connecting devices are 250 V, 300 V, 400 V, 500 V, 600 V, 690 V, 800 V, 1 000 V a.c. and 1 500 V d.c.		N/A
6.2	Delete notes 1, 2, 3 and 4		P
8	Marking		P
8.1	Add the following paragraph after m)		P
	The information l) and m) are optional for boxes classified according to 7.101.4		N/A


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Clause	Requirement + Test	Result - Remark	Verdict
8.101	Replace the second line by:		N/A
	Rated connecting capacity mm ² or □		N/A
17	Creepage distances, clearances and distances through sealing compound		P
	Add after the first paragraph:		P
	This test does not apply to boxes for floating terminals or connecting devices classified according to 7.101.4.		P
	Delete the last but one paragraph.		P
Annex ZA (normative)			
	The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.		P
	Addition: IEC 60998 (mod) Series Connecting devices for low-voltage circuits for household and similar purposes EN 60998 Series IEC 60999 Series Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units EN 60999 Series		P
Annex ZB (normative)			
	Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions. NOTE If it affects harmonization, it forms part of the European Standard. For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.		P
6.2	United Kingdom		N/A
	In the United Kingdom, a standard connecting capacity of 1,25 mm ² is used		N/A

Attachment No. 2 (Technical documentation)

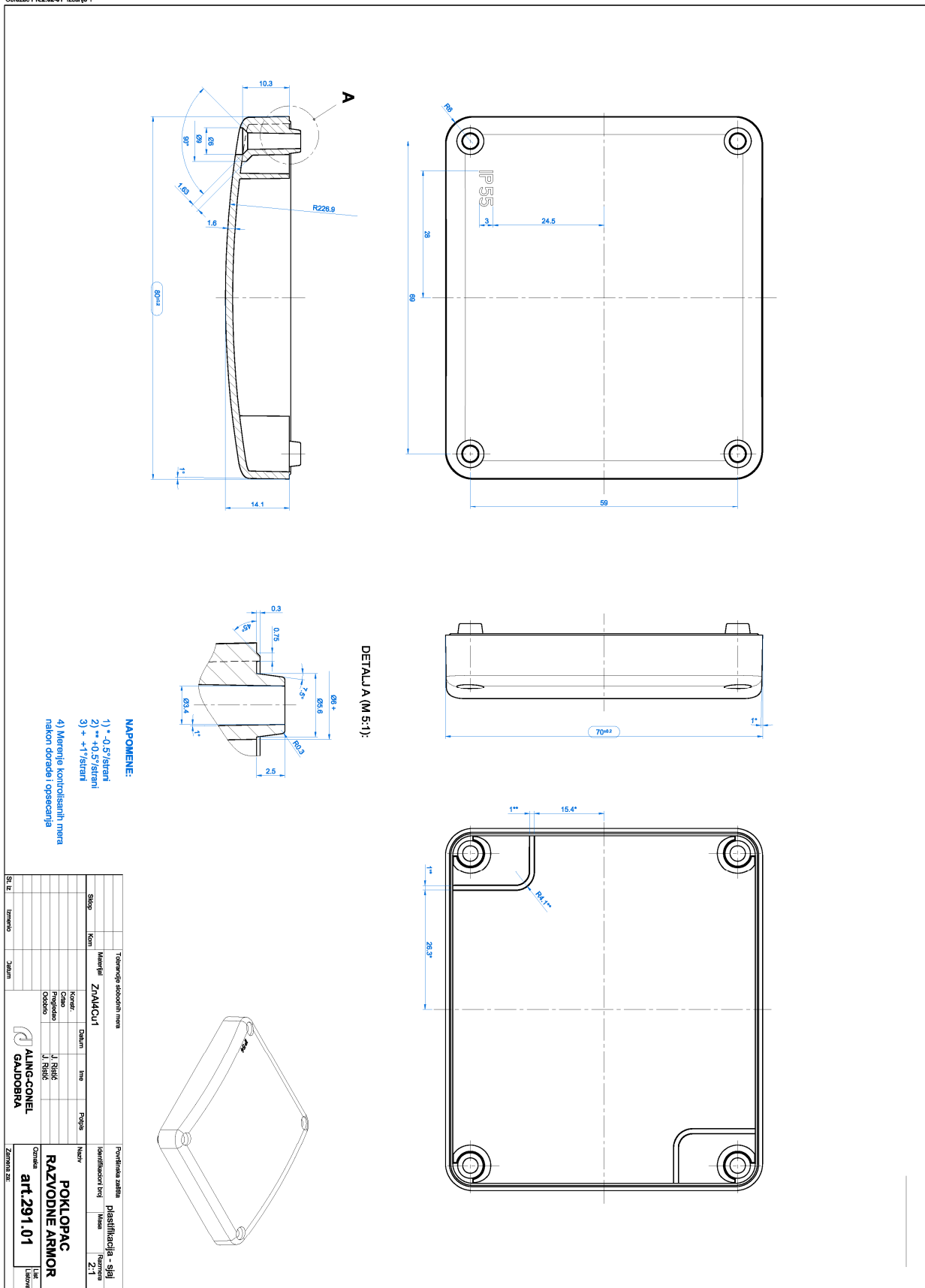




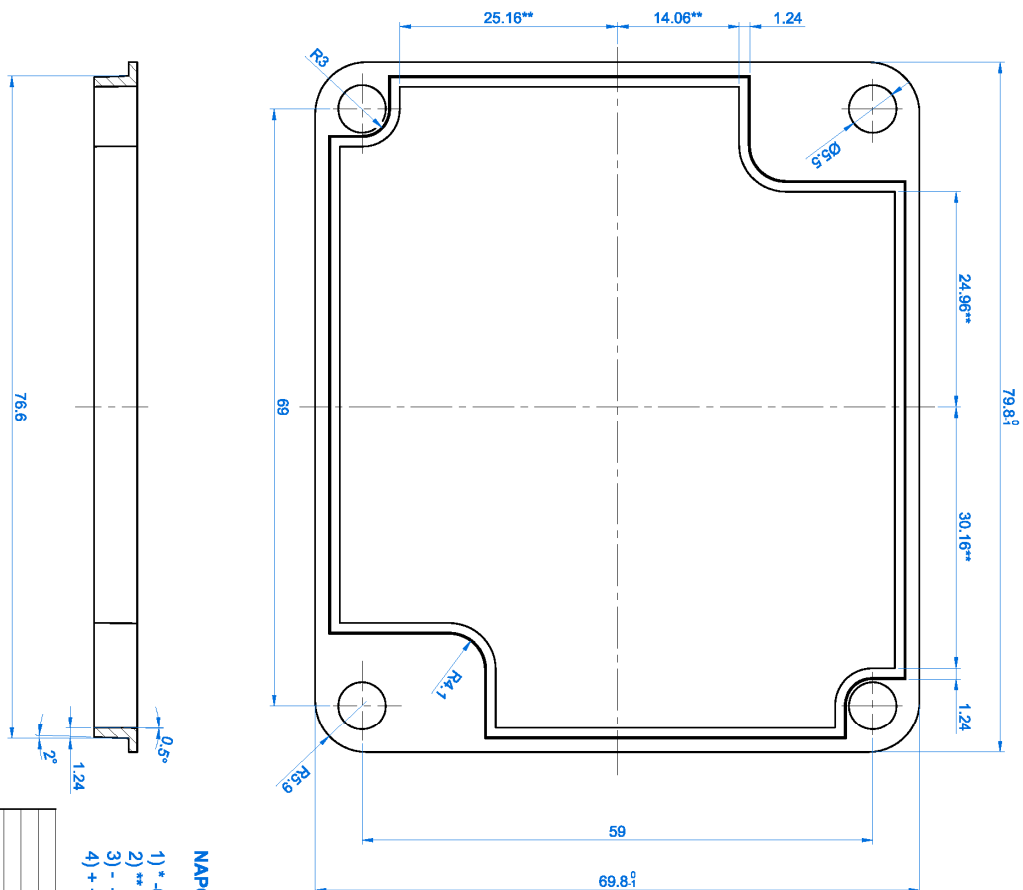
Obrazac PR.2.02-01 Izdanje 1

		Tolerancije slobodnih mera					Površinska zaštita			
							plastifikacija - sjaj			
		Materijal					Identifikacioni broj		Masa	Razmera
Sklop	Kom	art.291.21LD								1:1
		Konstr.	Datum	Ime	Potpis	Naziv KUTIJA SA 6 UVODA				
		Crtao								
		Pregledao		J. Ristić						
		Odobrio		J. Ristić						
		 ALING-CONEL GAJDOBRA					Oznaka		List	
							art.293.21		Listova:	
St. iz	Izmenio						Datum	Zamena za:		

Obrazac PR.2.02-01 Izdanje 1

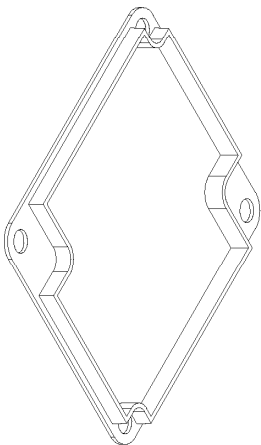
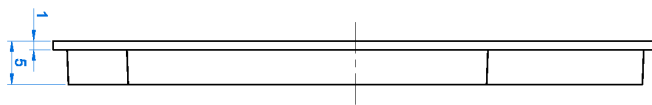


Obrazac PR.2.02-01 Izdanje 1

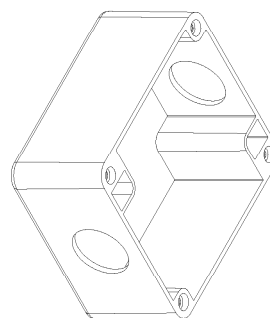
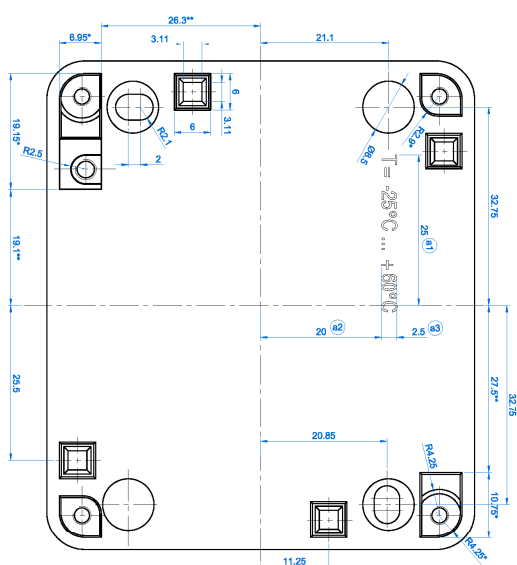
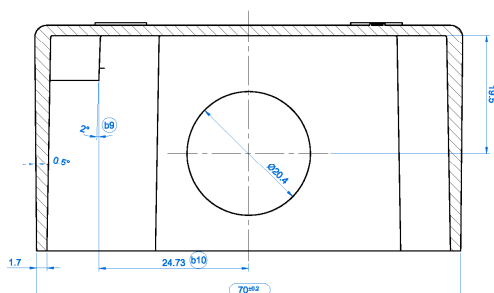
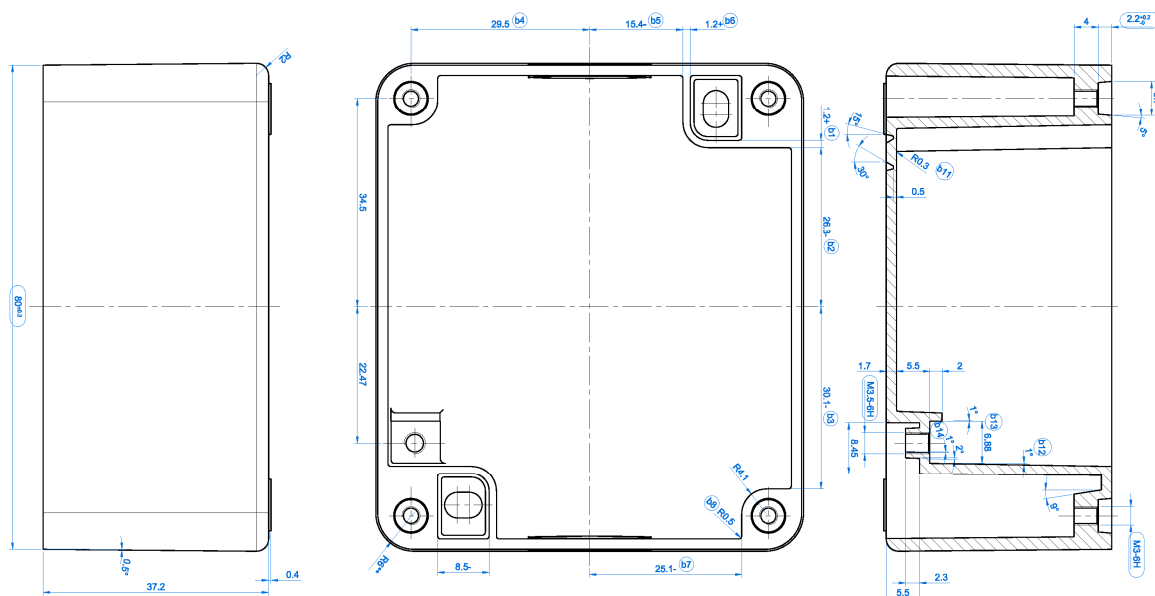


NAPOMENE:

- 1) * -0.5%/strani
- 2) ** +0.5%/strani
- 3) - -1%/strani
- 4) + +1%/strani

[illegible]

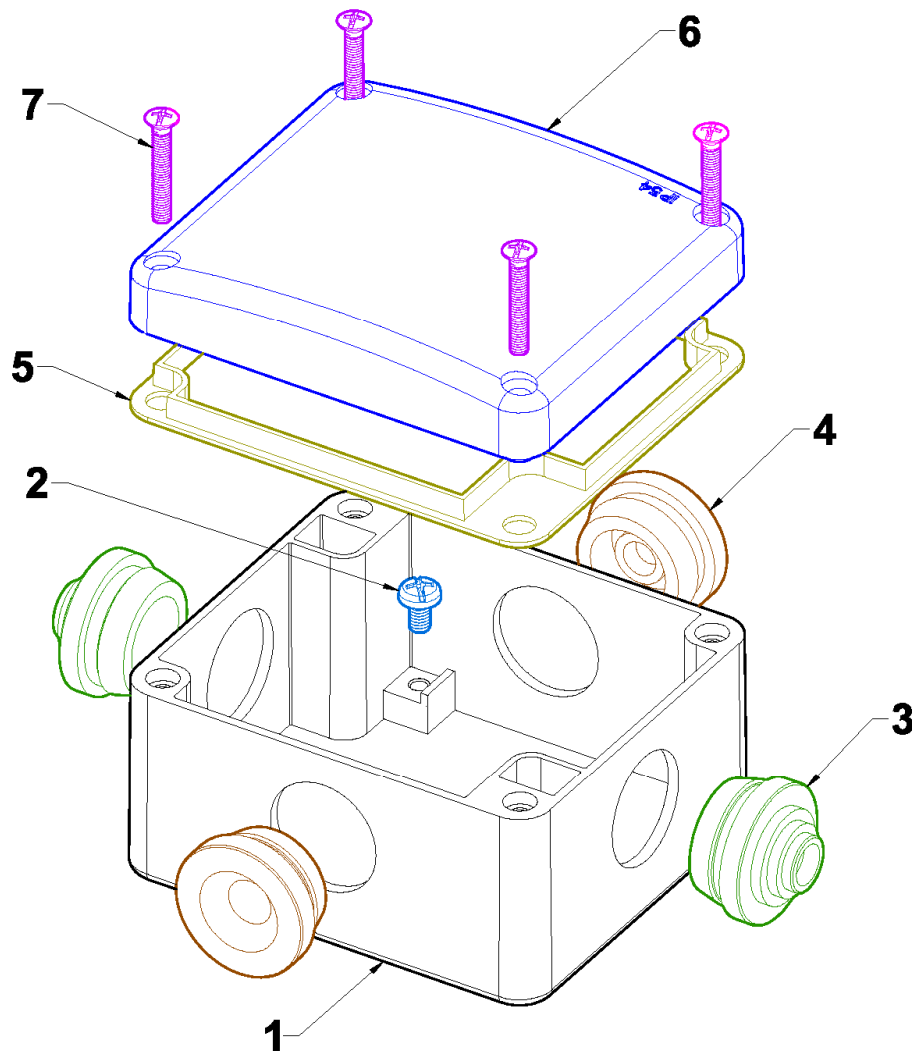
Obrazac PR.2.02-01 Izdanie 1



NAPOMENE:

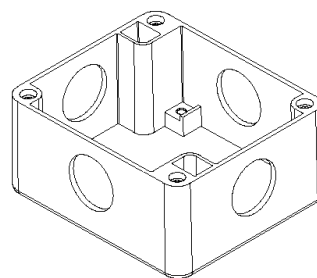
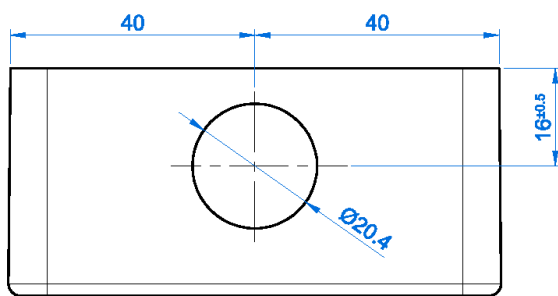
- 1) * -0.5%/strani
- 2) ** +0.5%/strani
- 3) - -1%/strani
- 4) + +1%/strani


[illegible]



7	Vijak	JUS M.B1.144	2	5.8	M3x20	Zn
6	Poklopac razvodne ARMOR	art.291.01	1	ZnAl4Cu1		plastificirano
5	Zaptivka razvodne ARMOR	art.291.02	1	SEBS		
4	PVC umetak - puni	art.221.04	2	PVC 75 Shor		
3	PVC umetak - šuplji	art.210.04	2	PVC 75 Shor		
2	Vijak	JUS M.B1.115/118	1	5.8	M3,5 x 6	Zn
1	Kutija razvodne sa 4 uvida	art.292.21	1			plastificirano
Poz.	Naziv	Oznaka	Kom.	Materijal	Dimenzije	Napomena
Tolerancije slobodnih mera				Površinska zaštita		
Materijal				Identifikacioni broj	Masa	Razmera 1:1
Sklop	Kom					
		Konstr.	Datum	Ime	Potpis	Naziv
		Crtao				RAZVODNA KUTIJA SA 4 UVODA ARMOR
		Pregledao		J. Ristić		
		Odobrio		J. Ristić		
						Oznaka
						art.292
St. iz	Izmenio	Datum				
				Zamena za:		

Obrazac PR.2.02-01 Izdanje 1



		Tolerancije slobodnih mera				Površinska zaštita		
						plastifikacija - sjaj		
		Materijal				Identifikacioni broj		Masa
		art.291.21LD						Razmera
Sklop	Kom							1:1
			Datum	Ime	Potpis	Naziv		
		Konstr.				KUTIJA SA 4 UVODA		
		Crtao						
		Pregledao		J. Ristić				
		Odobrio		J. Ristić				
		 ALING-CONEL GAJDOBRA				Oznaka		List
						art.292.21		Listova:
St. iz	Izmenio	Datum				Zamena za:		

Attachment No. 3 (Photos)



