

KABELDOZEN JSL “boxline” serie E90-FUNCTIEBEHOUD



E90



Alle kabeldozen van JSL worden gekenmerkt door een hoge en robuuste constructie-kwaliteit, die stoelt op een ver geautomatiseerd productieproces ondersteund door een doorgedreven kwaliteitscontrole. Dit maakt dat JSL kabeldozen een groot gebruiksgemak koppelen aan alle geldende normen en veiligheidsvoorschriften van de Europese normerings-instituten. De bodem(s) van deze kabeldozen zijn uiteraard afgestemd om met alle gebruiksgemak het JSL installatiemateriaal zoals klemmen en connectoren te kunnen gebruiken. (Maar evenzeer met de DIN rails). Elke JSL kabeldoos is gemaakt van HALOGEENVRIJ materiaal.

Norm's compliance:

-IEC 60670	Enclosures
-EN50262	Metric Cable glands
-EN60423	Metric Cable glands
-EN 60 998-2-4	Tórix
-EN 60998-2-1	Terminals and Junction boxes
-EN 60998- 2-2	Connectors



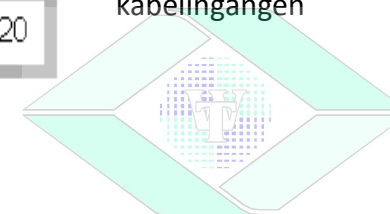
Category E90 according DIN 4102-part 12. -IP66, IK08 -Fixing by steel anchor dowels treated for fire conditions Certified at Deutsches Institut fur Certified Bautechnik. Steatite ceramic connectors resistant to furnacehigh temperature, certified VDE. Insulation Class II. - Boxes, V0 Duroplast selfextinguishing in RAL 2003, certified KEUR KEMA according to IEC EN 60670-22. Halogen-free.

WT ARTIKELNUMMER

	REF		Dim. (mm)	IP	IK			# x  mm ²		
FKFVIJS-BLO100S-0001	J100-SF		102X102X56	66	08	V0	6xM20+1xM25 	6 x 0,5-2,5	3,5-25	1/90
FKFVIJS-BLO100B-0001	J100-BF		102X102X56	66	08	V0	7 x M25 	6 x 0,5-2,5	3,5-25	1/90
FKFVIJS-BLO160B-0001	J160-BF		166X116X70	66	08	V0	10 x M25 	8 x 0,5-4	3,5-25	1/51
FKFVIJS-BLO200B-0001	J200-BF		216X166X90	66	08	V0	10 x M32 	8 x 0,5-6	3,5-32	1/20

EIGENSCHAPPEN

- Sluiting door schroeven
- Vlamdovend V0
- IP 66
- Keramische connectoren
- Kleur : Oranje
- Trapsgewijze nippel kablingangen



NOTICE: The boxes can be supplied with ceramic connectors with other capacities (if necessary). Appropriate for cables: Dätwyler, Eupen, Nexans, Pirelli, Leoni Studer, Prysmian and others according to DIN 4102 part 12.

KOPIE VAN CERTIFICAAT :



GOBIERNO
DE ESPAÑA

MINISTERIO
DE INDUSTRIA, ENERGÍA
Y TURISMO

MINISTRY OF INDUSTRY, ENERGY AND TOURISM
LICOFF: Official Laboratory for Fire Testing
R.D. 1614/1985 on 1st of August
M.O. on 21st of May of 1991



AFITI
LICOF

Centre for Fire Testing
and Research

Association for the Promotion of Research and Fire Safety Technology

Test Report

Fire Resistance Laboratory

APPLICANT:



JSL – Material Eléctrico S.A

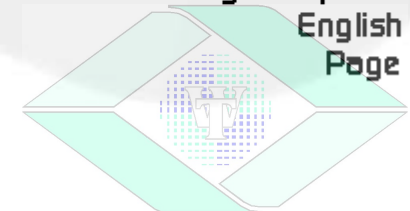
TEST:

Determination of the Fire Resistance.

- Test standard: Test protocol based on *DIN 4102-12:1998*
- Specimen: Electrical boxes fire resistant.
 - Manufacturer: JSL – Material Eléctrico S.A
 - References: “J100B-F”; “J100B-F”; “J160B-F”; “J200B-F”

Nr. 8855/13

Translation of original Spanish Report
English Version
Page 1 of 25



APPLICANT

JSL – Material Eléctrico S.A.
Rua Mário Castelhana n° 3
Zona Industrial Queluz de Baixo Ap. 12
2746-953 Queluz Portugal
Quotation acceptance date: 20th-Feb-2013

TEST SPECIMENS

Type of specimen: Electrical boxes fire resistant.
Manufacturer: JSL – Material Eléctrico S.A
References: “J100B-F”, “J100B-F”, “J160B-F”, “J200B-F”

TESTS PERFORMED

Fire Resistance test protocol according to **DIN 4102-12:1998**
Test date: 11th-Feb-2013
Place of test performance: Arganda del Rey's facilities



Report contents

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This report is a translation of the Spanish Test Report dated 21st-Mar-13. In case of doubt, the Spanish version of the Test Report prevails.

The results of this Test Report make sole and exclusive reference to the specimen tested, and not to the product in general.

"This test report details the construction method, test conditions and achieved results when a specific construction item as the one herewith described, has been tested following the procedure described in DIN4102-2. Any significant deviation regarding size, construction details, loads, tensions, sample limits or extremes of this, which are not included in the test results direct scope specified in the correspondent test method, will not be covered by this test report".

The information held in this Test Report is of a confidential nature, meaning the Laboratory will not provide information in relation to this report to third parties, except with the authorization of the Applicant.

It is not allowed to reproduce partially this Test Report without the Laboratory's written approval.

1.- TEST SPECIMENS

Reception: 11th-Mar-2013

- Units: 7 specimens
- The specimens and all the components are received packaged.
- The specimens have been sent and selected by the applicant.

Documentation:

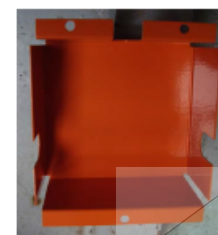
The technical documentation required for the issuance of this report has been received on 11th-Mar-2013.

Description:

The main descriptive characteristics of the specimens have been supplied by the applicant. This information is included in the Annex 3 of this Test Report.

Specimen	Reference	Dimensions	Classification
8855A	J100B-F	116 x 116 x 60	E90
8855B	J100B-F	116 x 116 x 60	E90
8855C	J160B-F	166 x 116 x 70	E90
8855D	J200B-F	216 x 116 x 90	E90

The specimen 8855B is protected by a metal casing of dimensions (120 x 127 x 65) mm and 1 mm thickness:



2- TESTS PERFORMED

Due to there is no standard for this kind of products, the fire test according to **DIN 4102-12:1998** has been adapted in order to evaluate the performance of these electrical boxes.

Due to the functionality in case of fire of these electrical boxes is to maintain the circuit integrity, the specimens were subjected to standard fire conditions defined by DIN 4102-2 checking by passing current through systems cables, wherein said current flow is maintained throughout the heating process.

Test parameters

- **Heating Curve:** According to the thermal program described by the Standard DIN 4102-2:1977-09. The temperature control is performed by placing 4 Ø 1,6 mm type K sheathed thermocouples placed 100mm apart from the plane of the specimen.
- **Specimen connection:** Since the objective is to verify the supply continuity, if one of the electrical phases fails the entire system supply fails. The switch poles have been fed by high temperature resistant cables and these cables feed some bulbs in order to detect the possible failure of supply continuity.
- **Connection cable:** To evaluate the supply continuity, the following types of cables had been used in each specimen:

Specimen	Cable Type	Outer Diameter (mm)
8855A	TUMKA NHXH FE180 E90 2x1,5mm ² 0,6/1 kV	13,30
8855B	TUMKA NHXH FE180 E90 2x1,5mm ² 0,6/1 kV	13,30
8855C	TUMKA NHXH FE180 E90 2x1,5mm ² 0,6/1 kV	13,30
8855D	TUMKA NHXH FE180 E90 2x1,5mm ² 0,6/1 kV	13,30
	TUMKA NHXH FE180 E90 3x2,5mm ² 0,6/1 kV	14,90

Classification criteria

In accordance with DIN 4102-12:1998 paragraph 3.2.2, the specimens are classified according to the following table:

Table 1: Circuit integrity classes

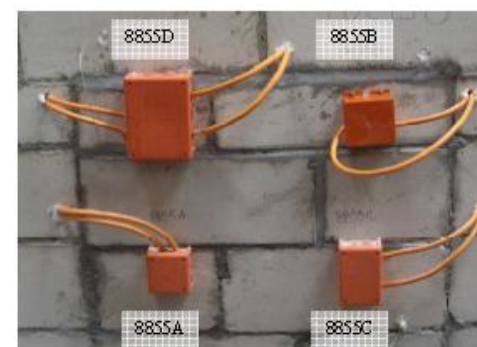
Class	Shortest length of time circuit integrity is maintained, in minutes
E 30	30
E 60	60
E 90	90

Considering that the operating time is the time during which the integrity of the electrical circuit is maintained.



3- SPECIMEN ASSEMBLY

The specimens were installed vertically on a wall of lightweight concrete with the arrangement given below:

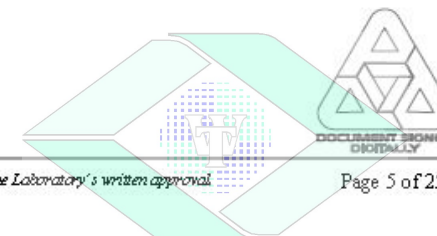


Once the specimens have been installed electrical connections are made from each of the specimens separately.

The power supply is three-phase (400 ± 40) V and 50 Hz with neutral ground at least 3 A and short circuit current ≥ 10 A. This current is taken directly from the control panel of the laboratory. Fuses of conductor protection with nominal current of 3A and bulbs with nominal tension of 240 V nominal electric power of 60 W and luminescent diode to indicate the current flow.

4- TEST CONDITIONS

Furnace temperature. Heating curve.	According to the thermal program described by the Standard DIN 4102-2:1977-09.	
Electrical conditions	380V 50Hz	
Ambient conditions at the beginning of the test	Ambient temperature (°C) ≡ T _a	12
	Relative humidity (%)	62



5.- RESULTS

The test lasted 91 minutes.

The test was stopped by mutual agreement with the applicant after 91 minutes.

Observations during the test

Minute	Observation
0	 The test starts at 16h 48min 42s
30	 Without significant changes.
60	 Without significant changes.
90	 Without significant changes.
91	 End of the test by mutual agreement with the applicant.

Observations after the test

After the test the melting of the plastic elements and the integrity of the metal case of the specimen 8855B is observed.

The electrical circuit continuity is successfully checked.

Expression of results

	Specimen			
	8855A	8855B	8855C	8855D
Circuit integrity (E)	91 minutes	91 minutes	91 minutes	91 minutes
Continuity after the test	COMPLIES	COMPLIES	COMPLIES	COMPLIES



6.- CLASSIFICATION

Assimilating the classification as provided in DIN 4102-12:1998 paragraph 3.2.2, tested specimens could be classified such as:

Muestra	Referencia	Dimensiones	Tipo de Cable	Clasificación
8855A	J100B-F	116 x 116 x 60	TUMKA NHXH FE180 E90 2x1,5mm ² 0,6/1 kV	E90
8855B	J100B-F	116 x 116 x 60	TUMKA NHXH FE180 E90 2x1,5mm ² 0,6/1 kV	E90
8855C	J160B-F	166 x 116 x 70	TUMKA NHXH FE180 E90 2x1,5mm ² 0,6/1 kV	E90
8855D	J200B-F	216 x 116 x 90	TUMKA NHXH FE180 E90 2x1,5mm ² 0,6/1 kV	E90
			TUMKA NHXH FE180 E90 3x2,5mm ² 0,6/1 kV	E90

"Due to the nature of fire Performance tests and the consequent difficulty in measuring the uncertainty of the grade of fire resistance, it is not possible to show a known degree of accuracy in the result".

Arganda del Rey, 03rd April of 2013



Document Signed Digitally

Signed: Agustín Garzón Cabrerizo
Technical Director of
Fire Resistance Laboratory
Technical Director of LICOF



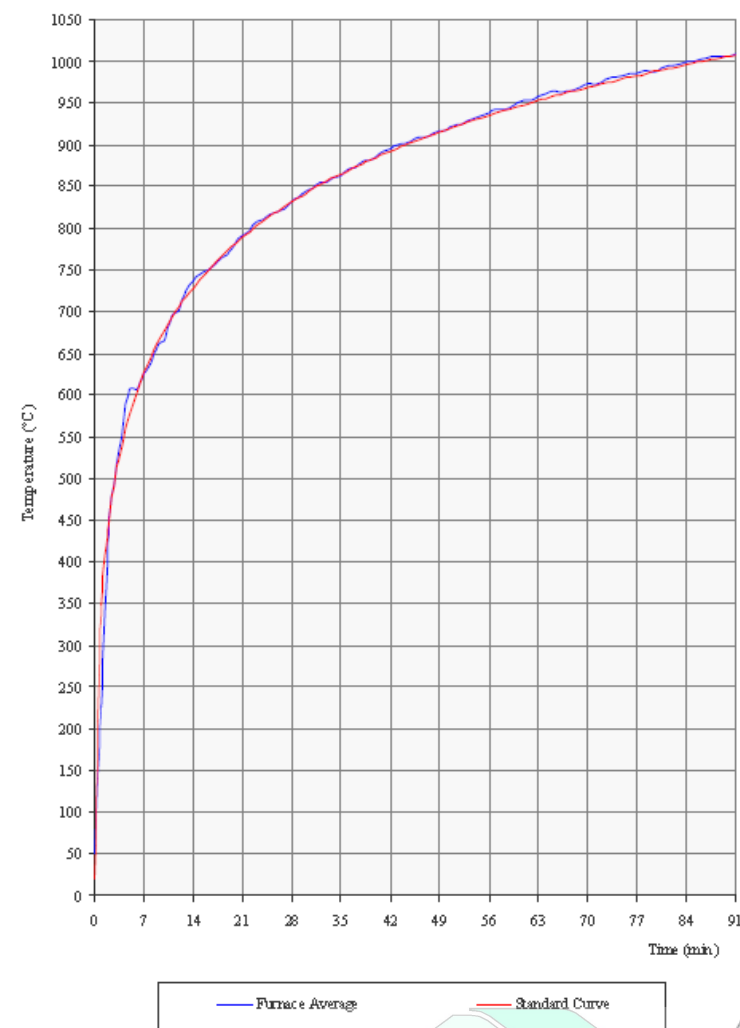
Annexes



Annex 1

Graphic of evolution of temperatures
inside the furnace

Evolution of the average furnace temperature and standard curve





Photograph nr 1

Detail of the specimens 8855A y 8855B



Photograph nr 2

Detail of the steel casing. Specimen 8855B



Photograph nr 3

Detail of the specimen 8855C



Photograph nr 4

Detail of the specimen 8855D



Photograph nr 5

Aspect of the specimens 8855A, 8855B, 8855C, 8855D before the test



Photograph nr 6

Aspect of the specimens 8855A, 8855B, 8855C, 8855D after finishing the test





Fireproof JSL E90 BOXLINE waterproof Boxes



E90 BOXLINE FIRE waterproof junction boxes from JSL

Functionality:

Full functionality for 90 minutes (Category E90) according to DIN 4102 Part 12. For circuits and wiring installations where safety of the facilities are crucial, such as power generation places, emergency lighting, fire detection, alarm detectors and security in general, ventilation and smoke exhaust and control of fire attack equipment such as fire pumps, "springlers," Circuit and related devices.

Suitable for

Assembling and manufacturing lines, Metropolitan tunnels, garages, security zones and emergency or evacuation paths, Central control headroom's, hospitals, schools and electrical and telecommunication's 'survival' lines in general. Also suitable for environments with corrosive, humid or with extreme temperatures environments or submitted to reverse IR shock.

Special Features

- Halogen free raw materials,
 - IP66
 - IK08
- Under normal temperature environment conditions: -15 °C to +45 °C
- Walls mounting through anchor bushings: steel treated for fire conditions. Certified by Deutsches Institut für Bautechnik.
- Suitable ceramic connectors, high furnace temperature resistance.
- Insulation class II
- Boxes: Duroplast extinguishing V0 in color RAL 2003, KEMA-KEUR certified according IEC EN 60670-22.

Dimensions and References

J100B-F 116x116x60 mm, accepts cables or tubes from 4 to 25 mm diameter.
J100S-F 116x116x60 mm receiving directly Metric Glands M20V0 for cables from 8 to 13 mm
external diameter or VD16 and/or VD20 tube, using threaded mouthpiece M20x3SV from JSL.
J160B-F 166x116x70 mm, accepts cables or tubes from 4 to 25 mm diameter
J200B-F 216x166x90 mm, accepts cables or tubes from 4 to 32 mm diameter.

Connection capacity

6 poles, each pole supporting rigid or flexible copper conductors from 0.5 mm² to 4 mm² in the case of the references J100B-F and J100S-F.

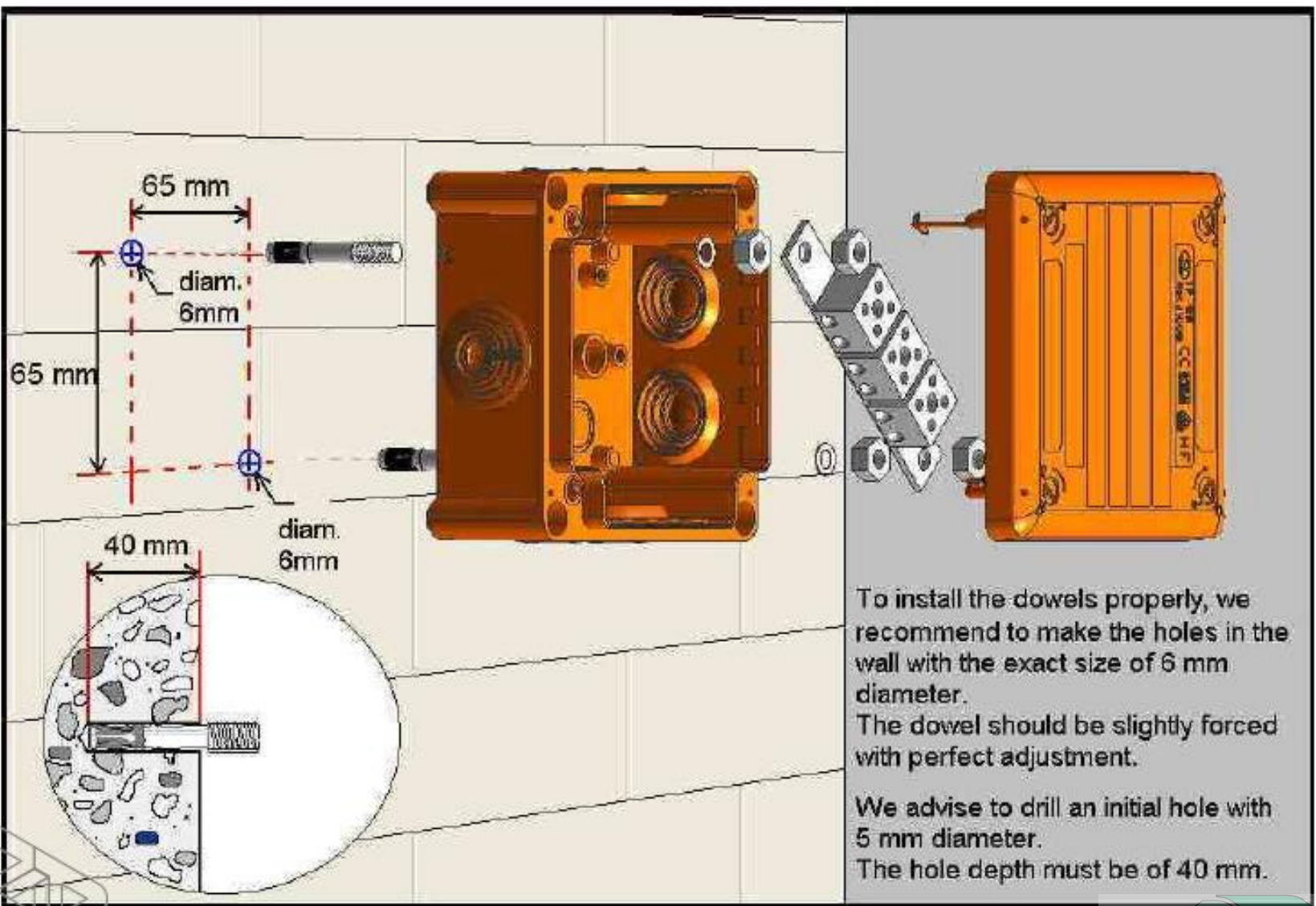
NOTICE: The boxes may be provided with other ceramic connectors capabilities (if necessary). Suitable for cables: Datwyler, Eupen, Nexans, Pirelli, Leoni Studer, Helukabel, Prysmian and others in accordance with DIN 4102 Part 12. **IMPORTANT:** the listed wiring capacity of the terminal ceramic blocks, it's merely an indication.

JSL Material Eléctrico SA

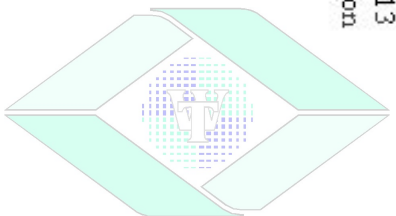
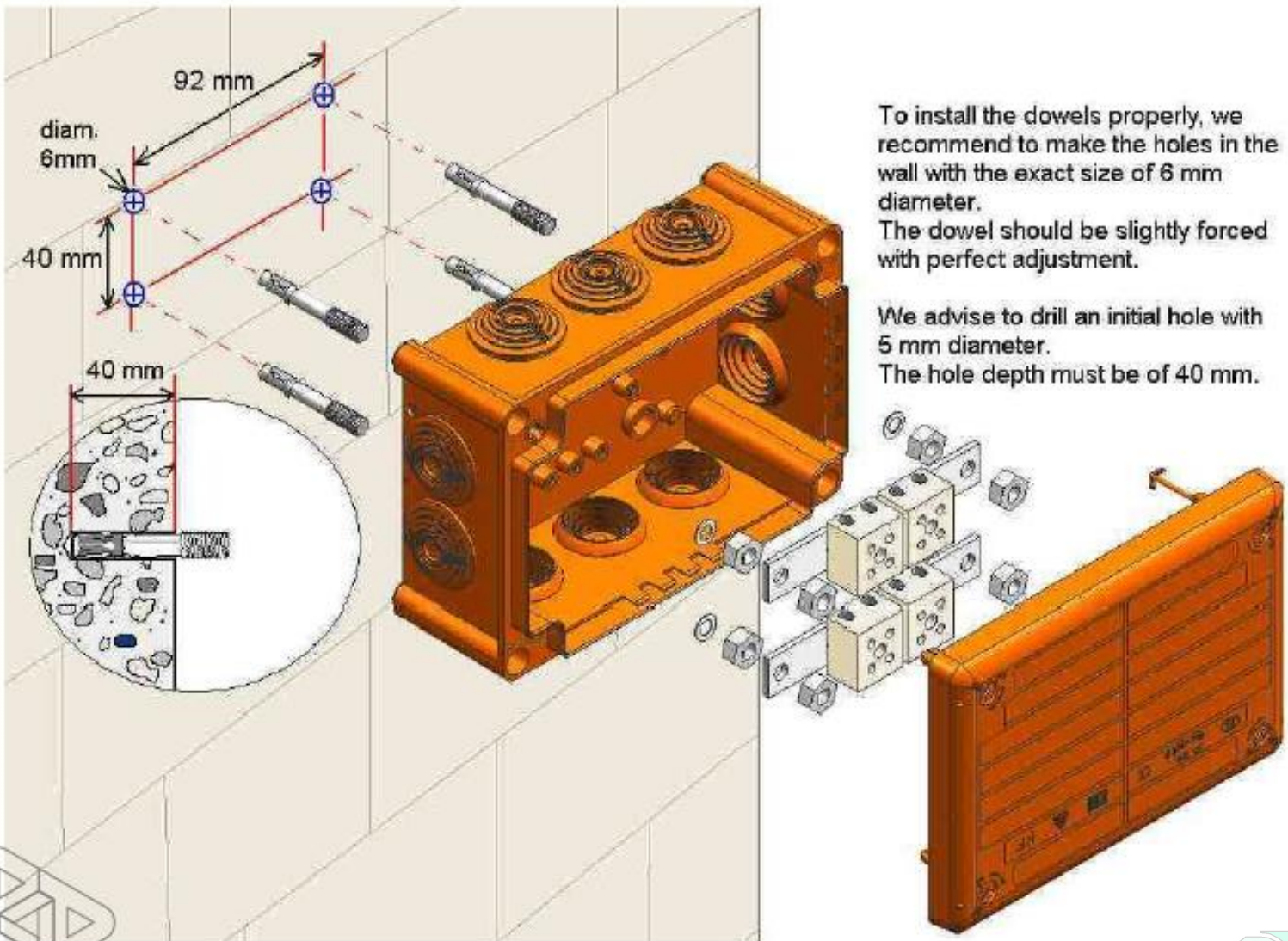
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Rua Mano Castelhamo, N.º 3 - Apartado 12,
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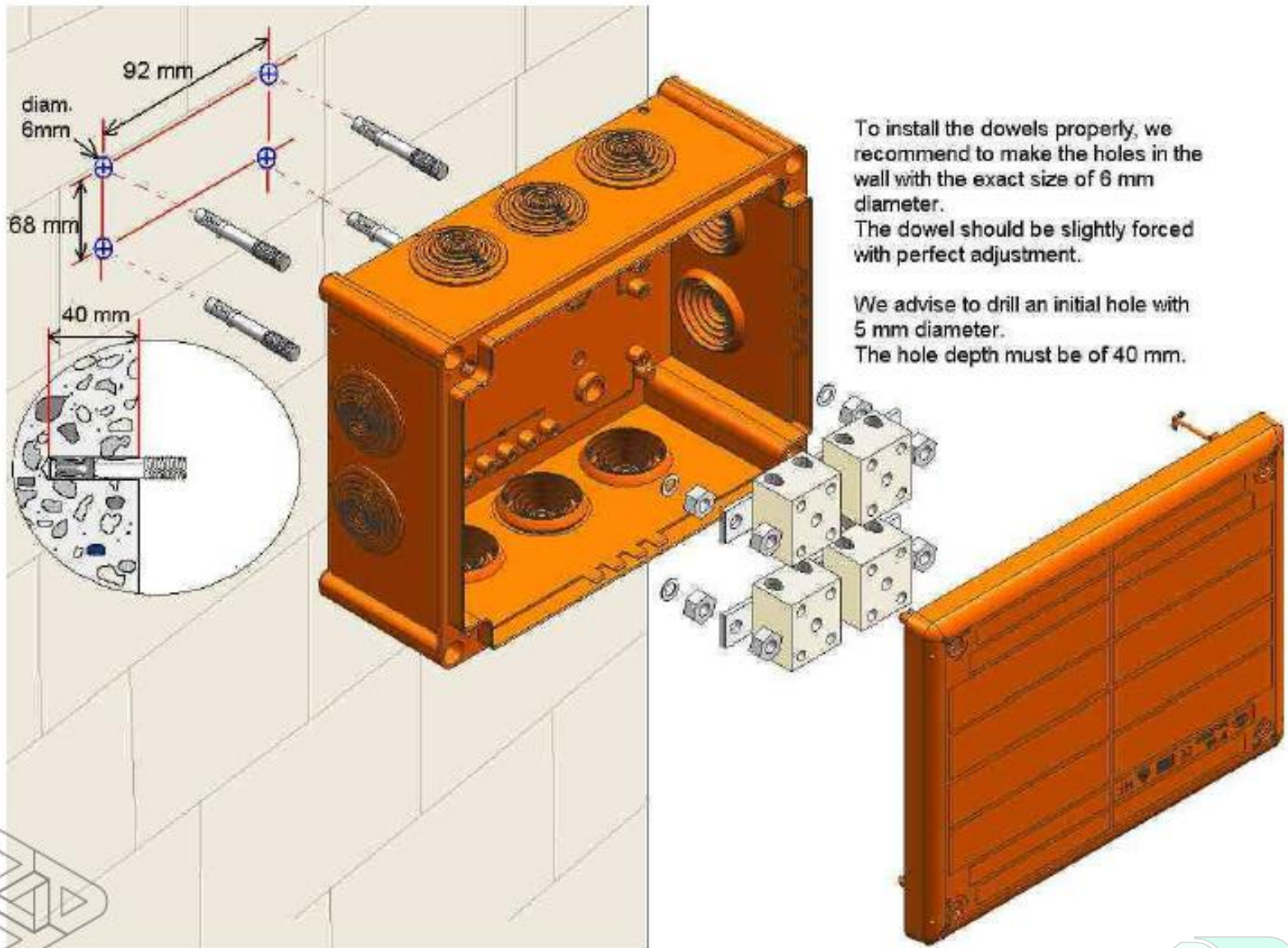
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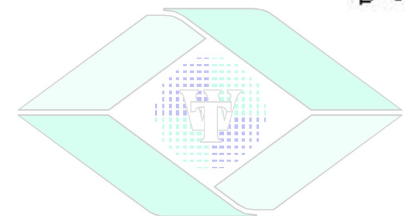


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Installers Manual for JSL BOXLINE FIRE boxes ref. J100BF, Ref. J160BF and Ref. J200BF

Fixing:

The boxes can be fixed by internal fixing holes according datasheet and figures supplied with each box in case of fixing on concrete walls or ceilings.

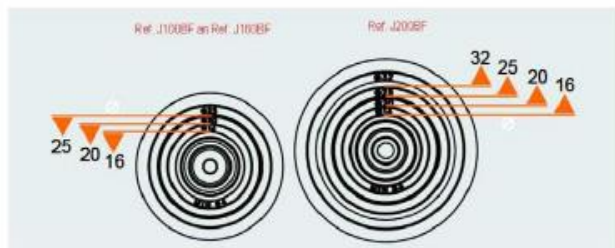
Drill the holes to put the special metal dowels. Insert the metal dowels on the concrete walls according the image supplied. Fix the box using the pre-made holes on the base of the box, put the washers and screw the M6 nuts like in the figure.

In case of cable tray use, the dowels supplied must be changed by "Umbrako" M6x25 steel screws. This screws will fix the cable tray plates to the Boxline Fire E90 Boxes.

Cable and tube installation:

BF version with stepped rubber grommets:

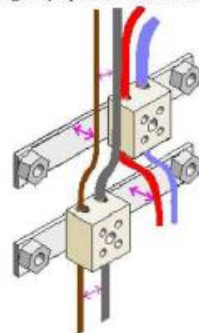
Cut the grommet at the mark corresponding to the diameter of the cable or tube and insert cable through the hole created. See the following figure:



Bars and wires connection:

Connect the wires of the E90 cables to the Steatite bars according the projected circuit and the type and capacity of the bars ordered.

PLEASE BE CAREFUL with the layout and the proper separation of the wires and between wires and the metal parts fixing components. Earth fixing screws must be ordered in case of necessity of earth protection for the supporting bar and dowels. It's advised to use rock wool mate in order to prevent any contact or connection between crossing wires and the metal supporting bars

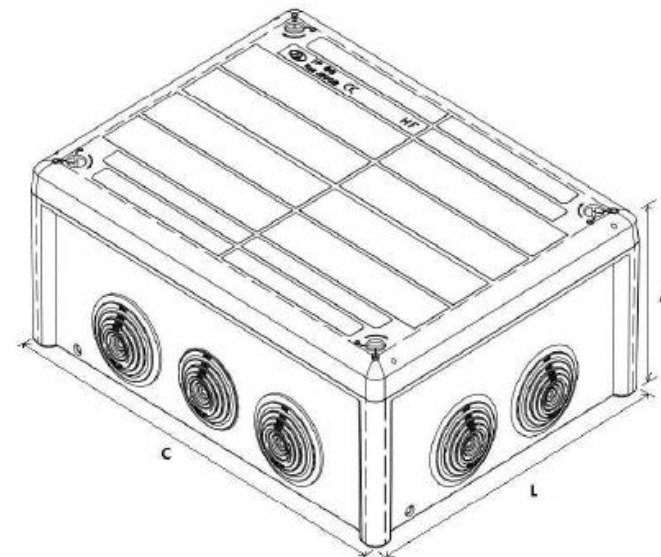


Box closing:

For all the models: put the cover and the supplied special screws in the 4 holes and then screw them (3/4 of turn)



JSL Boxline Fire external and internal dimensions:



Ref. J100B, BOX 100 x 100 with 7 h entries supplied with grommets and ¼ turn fast cover fixing screw. (external dimensions: 115x135x60 mm, internal dimensions: 102x102x56 mm)
L C A

Ref. J160B, BOX 100 x 160 with 10 entries supplied with grommets and ¼ turn fast cover fixing screw. (external dimensions: 115x165x70 mm, internal dimensions: 102x153x67 mm)
L C A

Ref. J200B, BOX 160 x 200 with 10 entries supplied with grommets and ¼ turn fast cover fixing screw. (external dimensions: 165x236x89 mm, internal dimensions: 153x205x87 mm)
L C A

CERTIFICATE

Issued to:
Applicant:
JSL Material Electrico S.A.
Rua Mário Castelhanos Nº 3
2746 Queluz De Baixo Apartado 12
Portugal

Manufacturer/Licensee:
JSL Material Electrico S.A.
Rua Mário Castelhanos Nº 3
2746 Queluz De Baixo Apartado 12
Portugal

Product : connecting box for fixed electrical installations
Trade name : JSL
Types : J100L, J100B and J100S

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
- a type test according to the standard IEC 60670-1:2002, IEC 60670-22:2003 and IEC 62262:2002
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 961626

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 13 May 2011 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2143500.02

DEKRA Certification B.V.

drs. G.J. Zoetbrood
Managing Director

H.R.M. Barends
Certification Manager

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All testing, inspection, auditing and certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group.

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THE DUTCH COUNCIL
FOR ACCREDITATION

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DOCUMENT SIGNED
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ANNEX TO KEMA-KEUR CERTIFICATE 2143500.02

page 1 of 1

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data
product : connecting box for fixed electrical installations
trade name : JSL
types : J100L, J100B and J100S
degree of protection : IP 66
classification impact : IK8
material : thermoplastic
rated installation voltage : 500V~
dimensions : 102x102x56mm
colour : grey

Product data - type J100L
model : closed

Product data - type J100B
model : with rubber grommets B25 for cable or pipe diameters 16mm, 20mm and 25mm.

Product data - type J100S
model : with cable glands M-20 grey for cable diameters 8-13mm

TESTS

Test requirements
IEC 60670-1:2002 including C1:2003 and A1:2011
IEC 60670-22:2003
IEC 62262:2002

Test result
The test results are laid down in DEKRA test file 2143500.02.

Conclusion
The examination proved that all test requirements were met.

Tested by : R. van Daalen

Checked by : A.A. Mackenbach

Factory location
JSL Material Electrico S.A.
Rua Mário Castelhanos Nº 3
2746 Queluz De Baixo Apartado 12
Portugal

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DEKRA

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CERTIFICATE

Issued to:
Applicant:

JSL Material Eléctrico S.A.
Rua Mário Castelhano Nº 3
2746 Queluz De Baixo Apartado 12
Portugal

Manufacturer/Licensee:

JSL Material Eléctrico S.A.
Rua Mário Castelhano Nº 3
2746 Queluz De Baixo Apartado 12
Portugal

Product : connecting box for fixed electrical installations
Trade name : JSL
Type : J160 L and J160 B

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
- a type test according to the standard IEC 60670-1:2002, IEC 60670-22:2003 and IEC 62262:2002
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 961626

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 13 May 2011 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2143500.03

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director

H.R.M. Barends
Certification Manager

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ANNEX TO KEMA-KEUR CERTIFICATE 2143500.03

page 1 of 1

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data	
product	: connecting box for fixed electrical installations
trade name	: JSL
types	: J160 L and J160 B
degree of protection	: IP 66
classification impact	: IK8
material	: thermoplastic
rated installation voltage	: 500V~
dimensions	: 166x116x70mm
colour	: grey

Product data - type J160 L	
model	: closed

Product data - type J160 B	
model	: with rubber grommets B25 for cable or pipe diameters 16mm, 20mm and 25mm.

TESTS

Test requirements
IEC 60670-1:2002 including C1:2003 and A1:2011
IEC 60670-22:2003
IEC 62262:2002

Test result
The test results are laid down in DEKRA test file 2143500.03.

Conclusion
The examination proved that all test requirements were met.

Tested by : R. van Daalen

Checked by : A.A. Mackenbach

Factory location
JSL Material Eléctrico S.A.
Rua Mário Castelhano Nº 3
2746 Queluz De Baixo Apartado 12
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Portugal

Manufacturer/Licensee:
JSL Material Elctrico S.A.
Rua Mrio Castelhana N° 3
2746 Queluz De Baixo Apartado 12
Portugal

Product : connecting box for fixed electrical installations
Trade name : JSL
Types : J200 L and J200 B

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
- a type test according to the standard IEC 60670-1:2002, IEC 60670-22:2003 and IEC 62262:2002
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 961626

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 13 May 2011 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2143500.04

DEKRA Certification B.V.

drs. G.J. Zoetbrood
Managing Director

H.R.M. Barends
Certification Manager

© Integral publication of this certificate is allowed

All testing, inspection, auditing and certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group.

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION

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DOCUMENT SIGNED
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DEKRA

ANNEX TO KEMA-KEUR CERTIFICATE 2143500.04 page 1 of 1

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data
product : connecting box for fixed electrical installations
trade name : JSL
types : J200 L and J200 B
degree of protection : IP 66
classification impact : IK8
material : thermoplastic
rated installation voltage : 500V~
dimensions : 216x166x90mm
colour : gray

Product data - type J200L
model : closed

Product data - type J200B
model : with rubber grommets B32 for cable or pipe diameters 16mm, 20mm, 25mm and 32mm.

TESTS

Test requirements
IEC 60670-1:2002 including C1:2003 and A1:2011
IEC 60670-22:2003
IEC 62262:2002

Test result
The test results are laid down in DEKRA test file 2143500.04.

Conclusion
The examination proved that all test requirements were met.

Tested by : R. van Daalen

Checked by : A.A. Mackenbach

Factory location
JSL Material Elctrico S.A.
Rua Mrio Castelhana N° 3
2746 Queluz De Baixo Apartado 12
Portugal

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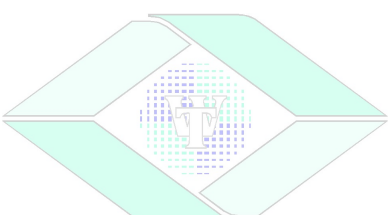
DOCUMENT SIGNED
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Association for the Promotion of Research and Fire Safety Technology



MINISTRY OF INDUSTRY, ENERGY AND TOURISM



Tomás de la Rosa Sánchez, General Manager of AFITI declares:

- That AFITI (Association for the Promotion of Research and Fire Safety Technology) is a non profit-making association and was declared Association of Public Utility by the Spanish Cabinet on 27th January 1995.
- That the ownership of LICOE (Centre for Fire Testing and Research) is of Ministry of Industry, Energy and Tourism, by R.D. 1614/85 and O.M. on 21st May 1991, corresponding, by agreement, the management to AFITI.
- That the tests included in this Technical Report have been carried out at the Technical Unit of Test (LICOE).
- That these tests have been developed under the framework of agreement signed between the Association for the Promotion of Research and Fire Safety Technology (AFITI) and Association for Wood Research and Development of Castilla-La Mancha (A.I.M.C.M.).

Signed: Tomás de la Rosa Sánchez
General Manager

Recognition / Accreditation: MINISTRY OF INDUSTRY, ENERGY AND TOURISM, MINISTRY OF PUBLIC WORKS, IMO & VKF-AEI.

Notify Body: NOTIFY BODY TO THE EUROPEAN COMMISSION WITH NR. 1168.

Member of: AEIAP, AENOR, ASELF, AIDICO, EGOLF & NFPA.

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