

EN

- * DIN 4102-12
- * CSN 73 0895
- * STN 92 0205



E90



FIRE RESISTANT
SYSTEMS

BE Basor
CABLE TRAY SPECIALIST

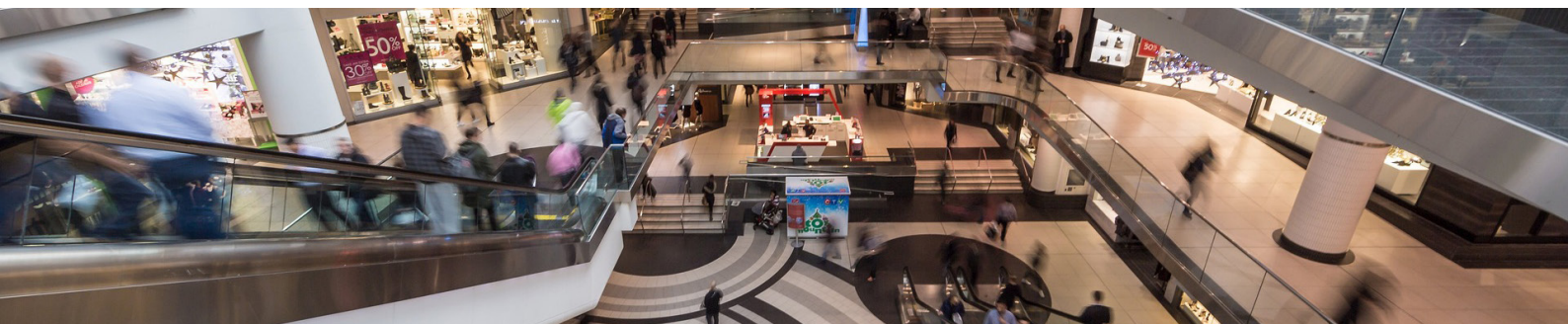


INTRODUCTION

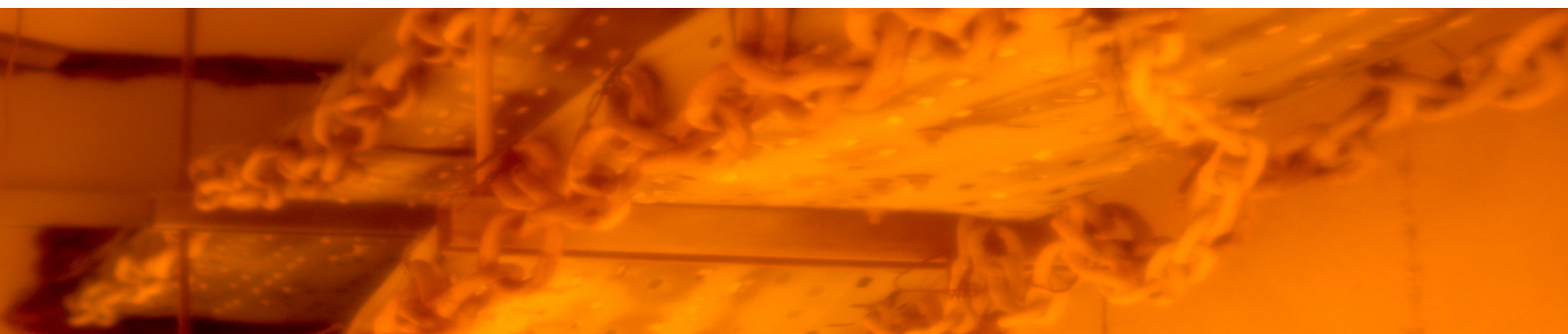
Basor Electric, sensitive to the need to minimize the consequences of a fire, has subjected its cable management systems to rigorous fire resistance tests to ensure the performance of their products. In the event of a fire, it is necessary to **maintain the functionality** of certain electrical installations, such as smoke extractors, emergency lighting, fire alarms, or pressure installations for extinction.



Depending on the time it is necessary to maintain the functionality of the installation, we will select the ideal cable management system for each case. The functionality of these facilities in **public places** is very important. In this type of premises more time is needed for evacuation due to the large accumulation of people.



All Basor Electric cable trays are manufactured under Standard **EN IEC 61537 “Cable Tray and cable ladder systems for cable management”**. In this standard it is foreseen to contemplate the risks of resistance to fire, but until now this aspect has not been developed.





BASOR CABLE TRAYS AGAINST FIRE

Due this lack of applicable European or international regulations, different local standards are used, such as the German, Czech and Slovak standards, which study the fire behavior of the electrical cable management systems necessary to maintain the integrity of the circuit. These standards define the conditions of the test to verify that the system, consisting of trays, supports, accessories and fire resistant cables, **maintains the power supply** for a certain time even in extreme fire conditions.

DIN 4102-12

"Fire behaviour of building materials and elements. Fire resistance of electric cables systems required to maintain circuit integrity"

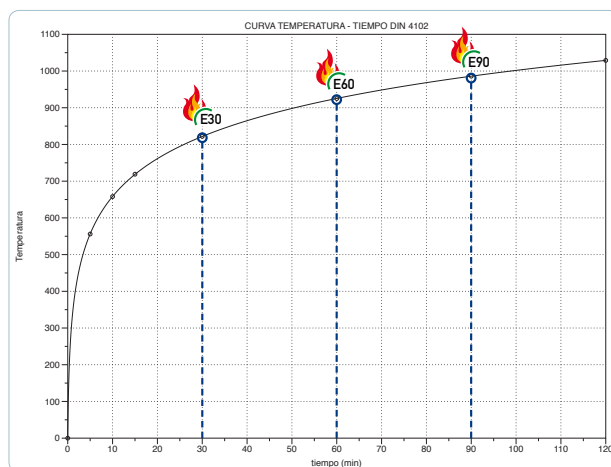
CSN 730895

"Fire safety engineering - Maintaining the functionality of cable lines under fire conditions - requirements, testing, classification Px-R, R-PHX and application of test results"

STN 920205

"Fire behaviour of construction products and building constructions. Circuit integrity maintenance of cable systems. Requirements, testing, classification and application of test results"




Basor Electric has used these Standards to study the **behavior and functionality** of its products in the event of a fire. The standards studies the response of the installation of the set of fire resistant cables subjected to tension with the supports and the cable trays **inside a oven with a defined temperature-time curve**.



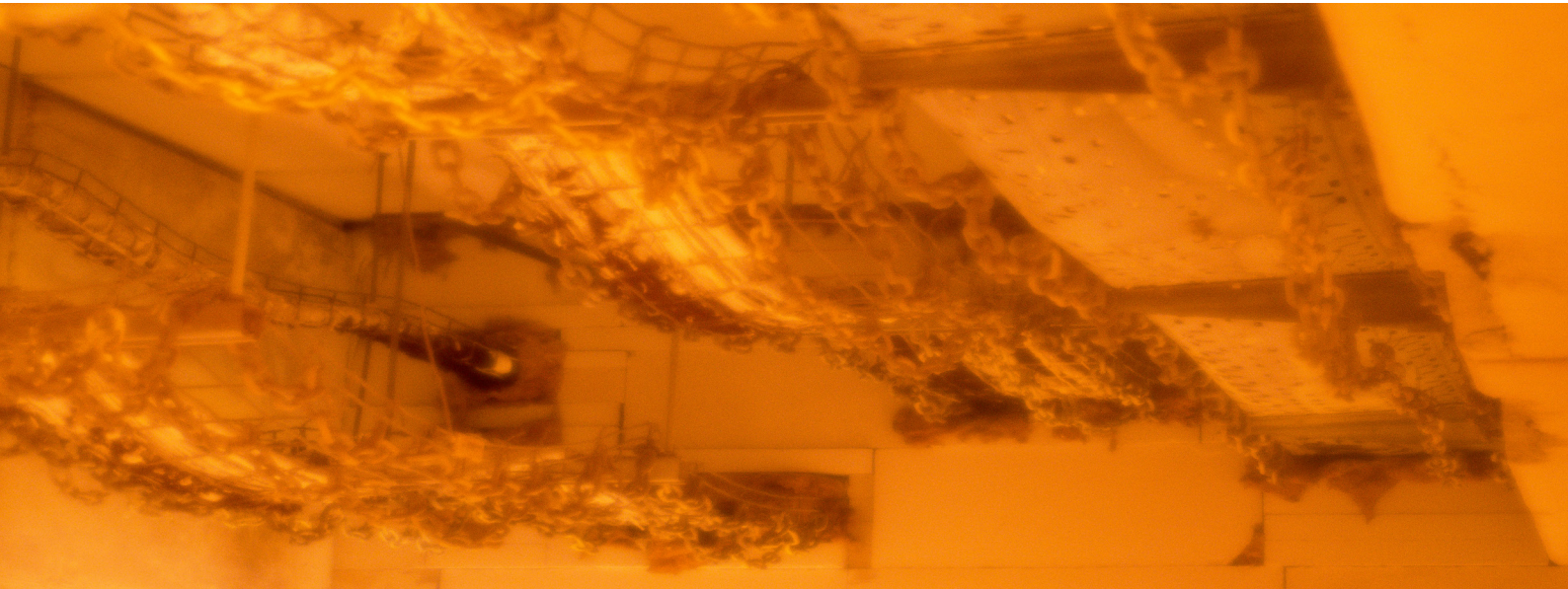
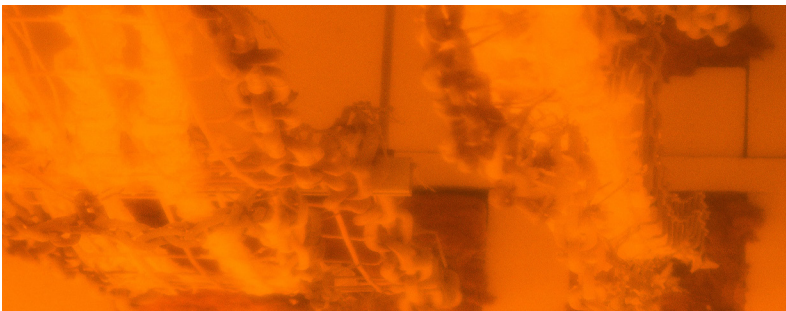
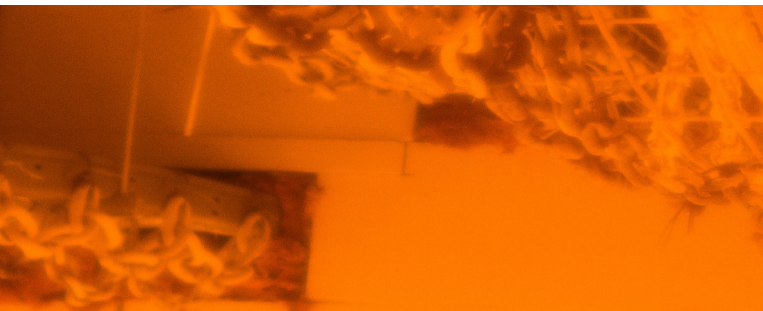


BASOR CABLE TRAYS AGAINST FIRE

As time goes on, the cable trays get deformed **while continuing to support the cables**, the cable coating wears off but the assembly maintains the electrical signal without short circuiting or interrupting the signal. Depending on the time, in minutes, which is capable of maintain the installation in service, it is classified as **E30, E60 or E90**. The selection of the installation (E30, E60 or E90) will depend on the time necessary to organize the evacuation and the emergency services in each case.

| Clasificación Classification | Tiempo de ensayo (min) Time test (min) | Temperatura alcanzada Temperatura reached (°C) |
|---|---|---|
|  E30 | 30 | 822 |
|  E60 | 60 | 925 |
|  E90 | 90 | 986 |

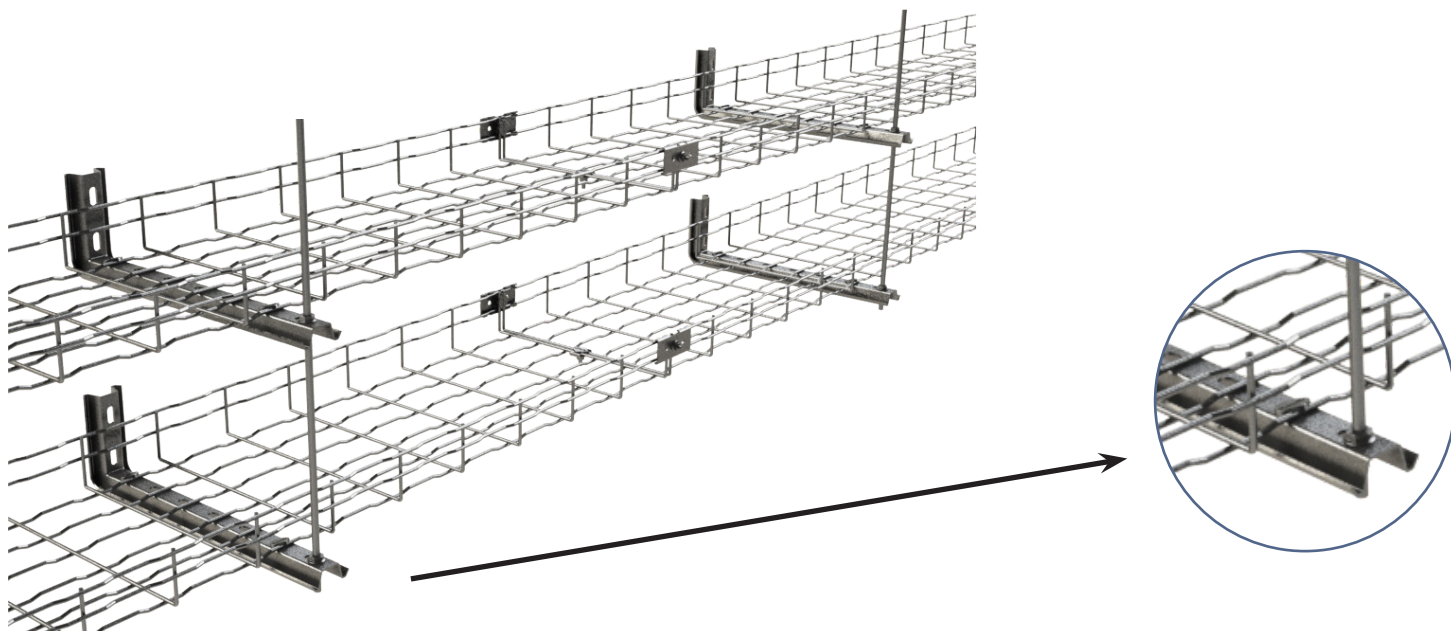
* The installations classified as Fire Resistant have been tested in accredited external laboratories, which allows to ensure compliance with all the requirements demanded in the Regulation.
** In addition, some of the assemblies have been subsequently evaluated and certified by VEIKI, thus being certified for use and installation in Hungary.





FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF01.00

Basket tray BFR, high 65mm (2").
Mounted at wall/roof using threaded rods and SH0 supports



BASOR ELECTRIC S.A. certifies that:



* The system RF01.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.



* The assembly uses basket tray BASORFIL BFR with a maximum width of 300mm (12"), with the coating EZ/HDG, with supports SH0, threaded rods VRM8 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.



CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 65mm (2") |
| Width | 300mm (12") |

| OPTIONAL MATERIALS IN THE ASSEMBLY |  |  |
|------------------------------------|---|---|
| Variable Set 4182CV | 1 u | 1 u |
| Nut DIN6923 M8 | 2 u | 2 u |

| LIST OF MATERIALS AT EACH SUPPORT |  |  |
|-----------------------------------|---|---|
| Srew B1 | 2 u | 4 u |
| Staple CGBF | 2 u | 4 u |
| Support SH0 | 1 u | 2 u |
| PSHO | 1 u | 2 u |
| Threaded rod VRM8 | 1 u | 1 u |
| Nut DIN6923 M8 | 2 u | 4 u |

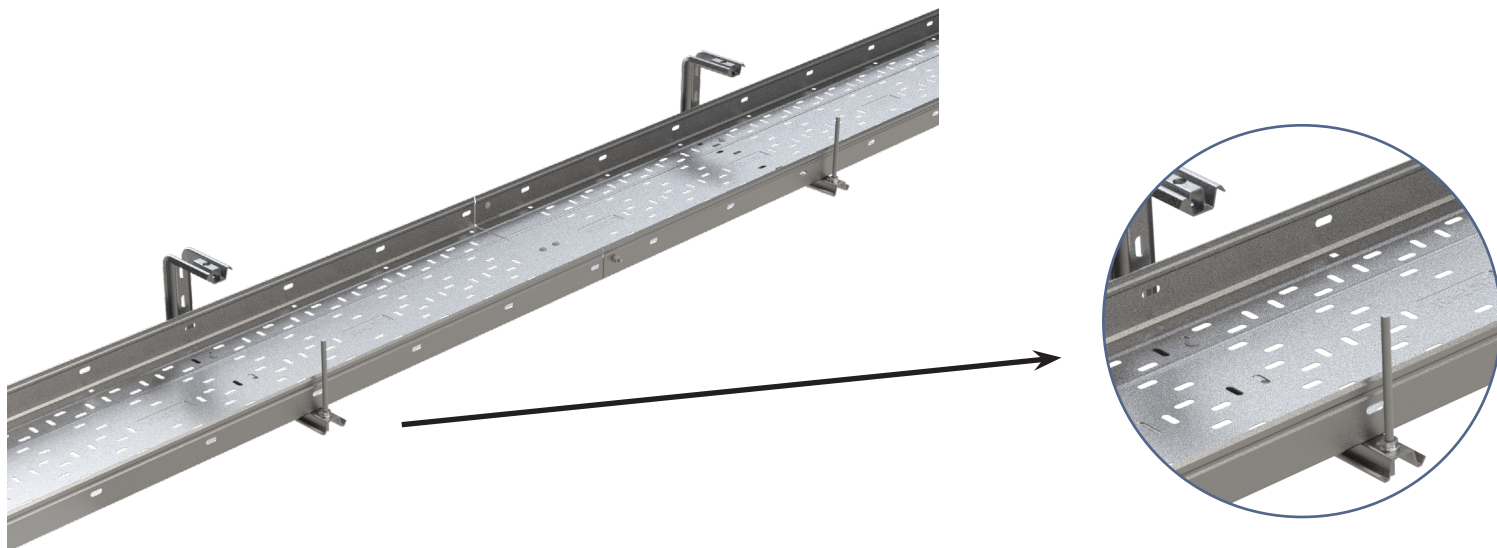
| LIST OF MATERIALS AT EACH CABLE TRAY |  |  |
|--------------------------------------|---|---|
| Basorfil BFR | 3 m | 6 m |
| Staple CGBF | 1 u | 2 u |
| Union CULA | 2 u | 4 u |

| CABLES FOR THE TEST | | | | | |
|---------------------|-------------------------|-----------------------------|--------|-------------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Result |
| Nexans | 2x2x0,8mm ² | RHEYHALON JE-H(St)H E30-E90 | Signal | DIN 4102-12 | E30 |
| EUPEN Kablewerk AG | 4x1,5mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | E90 |
| Prysmian | 4x16mm ² RE | Sienopyr-plus (N)HXHX E90 | Power | DIN 4102-12 | E90 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF02.00

Cable tray ERE, high 60mm (2").
Mounted at roof using threaded rods and SHOT supports



BASOR ELECTRIC S.A. certifies that:

* The system RF02.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable tray BASORTRAY ERE with a maximum width of 300mm (12"), with the coating PG/HDG, with supports SHOT, threaded rods VRM8 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 1 |
| High | 60mm (2") |
| Width | 300mm (12") |

OPTIONAL MATERIALS IN THE ASSEMBLY

| | |
|---------------------|-----|
| Variable Set 4182CV | 1 u |
| Nut DIN6923 M8 | 2 u |

LIST OF MATERIALS AT EACH SUPPORT

| | |
|-------------------|-----|
| Screw B1 | 2 u |
| Support SHOT | 1 u |
| PSH0 | 1 u |
| Threaded rod VRM8 | 1 u |
| Nut DIN6923 M8 | 2 u |

LIST OF MATERIALS AT EACH CABLE TRAY

| | |
|---------------|-----|
| Basortray ERE | 3 m |
| Screw B1 | 4 u |

CABLES FOR THE TEST

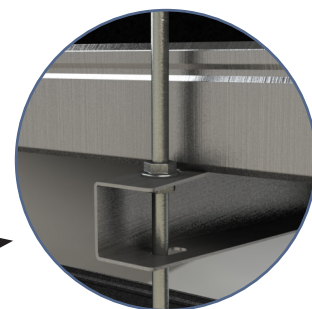
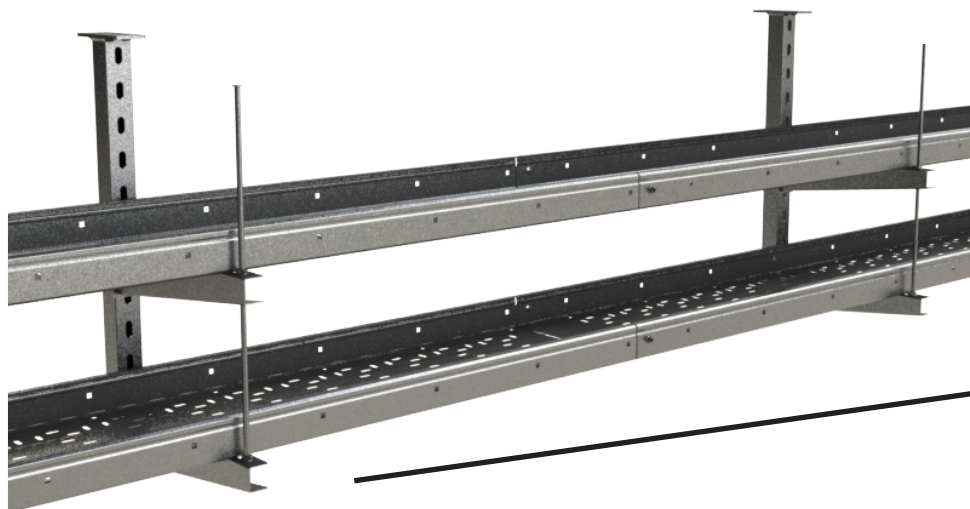
| Manufacturer | Section | Cable reference | Type | Standard | Result |
|--------------------|-------------------------|-----------------------------|--------|-------------|--------|
| Nexans | 2x2x0,8mm ² | RHEYHALON JE-H(St)H E30-E90 | Signal | DIN 4102-12 | E90 |
| EUPEN Kablewerk AG | 4x1,5mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | E90 |
| Prysmian | 4x16mm ² RE | Sienopyr-plus (N)HXHX E90 | Power | DIN 4102-12 | E90 |



FIRE RESISTANT SYSTEMS: Standard low structures

SYSTEM: RF03.00

Cable tray FRE, high 60mm (2").
Mounted at roof using threaded rods and SHL & SPL supports



BASOR ELECTRIC S.A. certifies that:



* The system **RF03.00** from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.



* The assembly uses cable tray **BASORTRAY FRE** with a maximum width of **300mm (12")**, with the coating **PG/HDG**, with supports **SHL & SPL**, threaded rods **VRM8** and has been tested for a Safe working load of **10 kg/m** and a maximum distance between supports of **1,2 m**.



CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 60mm (2") |
| Width | 300mm (12") |

| OPTIONAL MATERIALS IN THE ASSEMBLY | |  |  |
|------------------------------------|-----|---|---|
| Variable Set 4182CV | 1 u | 1 u | 1 u |
| Nut DIN6923 M8 | 2 u | 2 u | 2 u |

| LIST OF MATERIALS AT EACH SUPPORT | |  |  |
|-----------------------------------|-----|---|---|
| Screw B1 | 2 u | 4 u | 4 u |
| Support SHL | 1 u | 2 u | 2 u |
| Support SPL | 1 u | 1 u | 1 u |
| Threaded Rod VRM8 | 1 u | 1 u | 1 u |
| Nut DIN6923 M8 | 2 u | 4 u | 4 u |
| Screw DIN933 M10x30 | 2 u | 4 u | 4 u |
| Spring Nut TM41 M10 | 2 u | 4 u | 4 u |

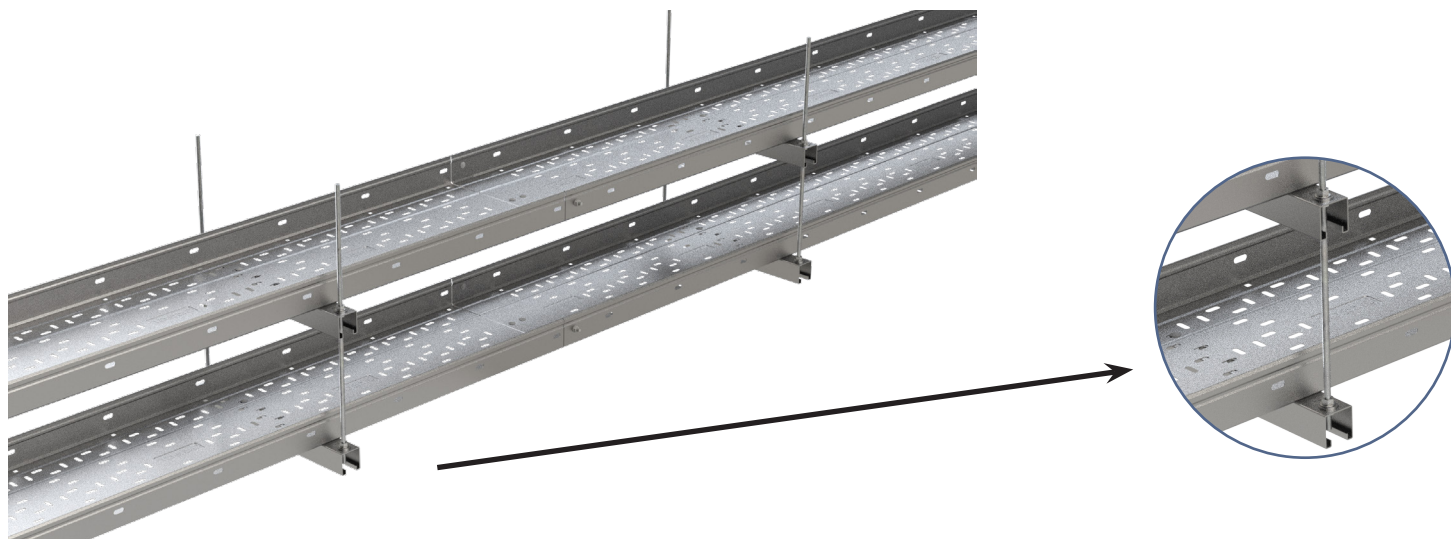
| LIST OF MATERIALS AT EACH CABLE TRAY | |  |  |
|--------------------------------------|-----|---|---|
| Basortray FRE | 3 m | 6 m | 6 m |
| Screw B1 | 4 u | 8 u | 8 u |

| CABLES FOR THE TEST | | | | | |
|---------------------|-------------------------|-----------------------------|--------|-------------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Result |
| Nexans | 2x2x0,8mm ² | RHEYHALON JE-H(St)H E30-E90 | Signal | DIN 4102-12 | E30 |
| EUPEN Kablewerk AG | 4x1,5mm ² RE | EUCASAFE NHHX FE 180 E90 | Power | DIN 4102-12 | E90 |
| Prysmian | 4x16mm ² RE | Sienopyr-plus (N)HXXH E90 | Power | DIN 4102-12 | E90 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF04.00

Cable tray ERE, high 60mm (2").
Mounted at roof using threaded rods and 41x41 profiles



BASOR ELECTRIC S.A. certifies that:

- * The system RF04.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.
- * The assembly uses cable tray BASORTRAY ERE with a maximum width of 300mm (12"), with the coating PG/HDG, with profiles 41x41, threaded rods VRM10 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

- * DIN 4102-12
- * STN 92 0205
- * CSN 73 0895

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 60mm (2") |
| Width | 300mm (12") |

LIST OF MATERIALS AT EACH SUPPORT

| | | |
|--------------------|-------|-------|
| Screw B1 | 2 u | 4 u |
| P41 41X41 | 0,4 m | 0,8 m |
| Threaded rod VRM10 | 1 u | 1 u |
| Nut DIN934 M10 | 2 u | 4 u |

LIST OF MATERIALS AT EACH TRAY

| | | |
|--------------|-----|-----|
| Basorfil ERE | 3 m | 6 m |
| Screw B1 | 4 u | 8 u |

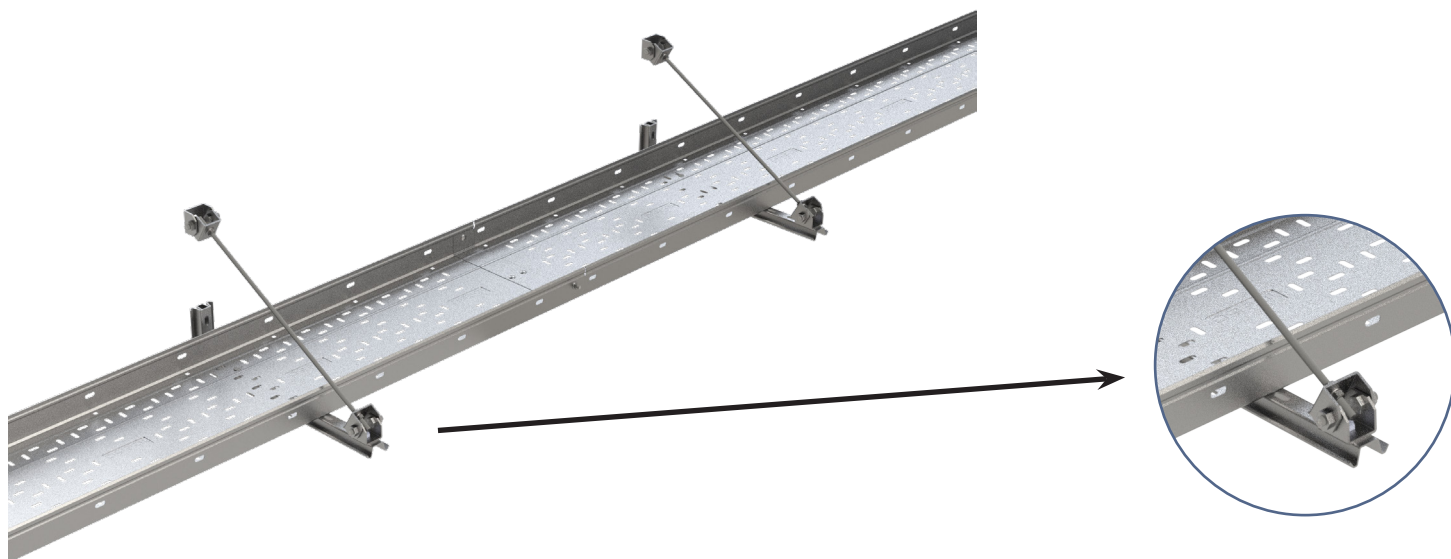
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | Standard | Veiki | Up | Down |
|-----------------------|--------------------------|---|--------|-----------------------|---------|-------|-------|
| Nexans | 2x2x0,8 mm ² | RHEYHALON JE-H(St)H E30-E90 | Signal | DIN 4102-12 | 608/VNL | E90 | E30 |
| EUPEN kabelwerk AG | 4x1,5 mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | 608/VNL | E90 | E60 |
| Prysmian | 4X16 mm ² RE | Sienopyr-plus (N)HXHX E90 | Power | DIN 4102-12 | 608/VNL | E90 | E60 |
| EUPEN kabelwerk AG | 4x1,5 mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | 608/VNL | E60 | E30 |
| EUPEN kabelwerk AG | 4x16 mm ² RM | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | 608/VNL | E90 | E90 |
| EUPEN kabelwerk AG | 4x50 mm ² RM | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | 608/VNL | E90 | E90 |
| EUPEN kabelwerk AG | 2x2x0,8 mm ² | EUCASAFE JE-H(St)H...Bd FE 180 E90 | Signal | DIN 4102-12 | 608/VNL | E30 | E90 |
| Lamela Electric, a.s. | 2x2x0,8 mm ² | JSFE-V FE180/P30-90-R B2ca,s1,d0,d1,a1 UV | Signal | CSN730895 / STN920205 | 608/VNL | - | P90-R |
| Lamela Electric, a.s. | 4x1,5 mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | CSN730895 / STN920205 | 608/VNL | - | P60-R |
| Lamela Electric, a.s. | 4x16 mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | CSN730895 / STN920205 | 608/VNL | P15-R | P60-R |
| Nkt cables | 4x1,5 mm ² RE | NOPOVIC 1-CXKH-V FE180/P90-R, B2ca,s1,d0,a1 | Power | CSN730895 / STN920205 | 608/VNL | P15-R | - |
| Nkt cables | 4x50 mm ² SM | NOPOVIC 1-CXKH-V FE180/P90-R, B2ca,s1,d0,a1 | Power | CSN730895 / STN920205 | 608/VNL | P60-R | - |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF05.00

Cable tray ERE, high 60mm (2").
Mounted at wall using threaded rods and SHO supports



BASOR ELECTRIC S.A. certifies that:


* The system RF05.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.


* The assembly uses cable tray BASORTRAY ERE with a maximum width of 300mm (12"), with the coating PG/HDG, with supports SHO, threaded rods VRM8, variable set 4182CV and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 60mm (2") |
| Width | 300mm (12") |

| LIST OF MATERIALS AT EACH SUPPORT |  |
|-----------------------------------|---|
| Screw B1 | 2 u |
| Support SHO | 1 u |
| PSHO | 1 u |
| Threaded rdo VR8 | 1 u |
| Nut DIN6923 M8 | 5 u |
| Screw DIN933 M8x25 | 1 u |
| Variable set 4182VS | 2 u |

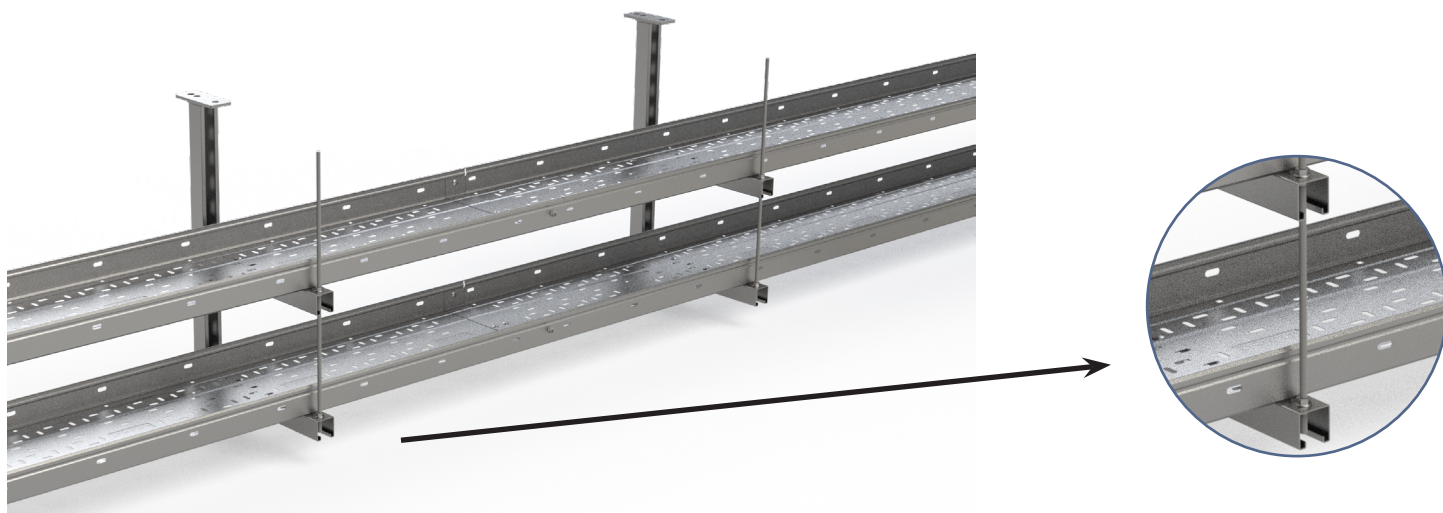
| LIST OF MATERIALS AT EACH CABLE TRAY |  |
|--------------------------------------|---|
| Basortray ERE | 3 m |
| Srew B1 | 4 u |

| CABLES FOR THE TEST | | | | | |
|---------------------|-------------------------|-----------------------------|--------|-------------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Result |
| Nexans | 2x2x0,8mm ² | RHEYHALON JE-H(St)H E30-E90 | Signal | DIN 4102-12 | E90 |
| EUPEN Kablewerk AG | 4x1,5mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | E90 |
| Prysmian | 4x16mm ² RE | Sienopyr-plus (N)HXHX E90 | Power | DIN 4102-12 | E90 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF06.00

Cable tray FRE, high 60mm (2").
Mounted at roof using threaded rods and SHL & SPL supports



BASOR ELECTRIC S.A. certifies that:



* The system RF06.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.



* The assembly uses cable tray BASORTRAY FRE with a maximum width of 300mm (12"), with the coating PG/HDG, with supports SHL & SPL, threaded rods VRM8 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.



CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 60mm (2") |
| Width | 300mm (12") |

| OPTIONAL MATERIALS IN THE ASSEMBLY |  |  |
|------------------------------------|---|---|
| Variable Set 4182CV | 1 u | 1 u |
| Nut DIN6923 M8 | 2 u | 2 u |

| LIST OF MATERIALS AT EACH SUPPORT |  |  |
|-----------------------------------|---|---|
| Screw B1 | 2 u | 4 u |
| Support SHL | 1 u | 2 u |
| Support SPL | 1 u | 1 u |
| Threaded rod VR8 | 1 u | 1 u |
| Nut DIN6923 M8 | 2 u | 4 u |
| Nut DIN633 M10x30 | 2 u | 4 u |
| Spring nut TM41 M10 | 2 u | 4 u |

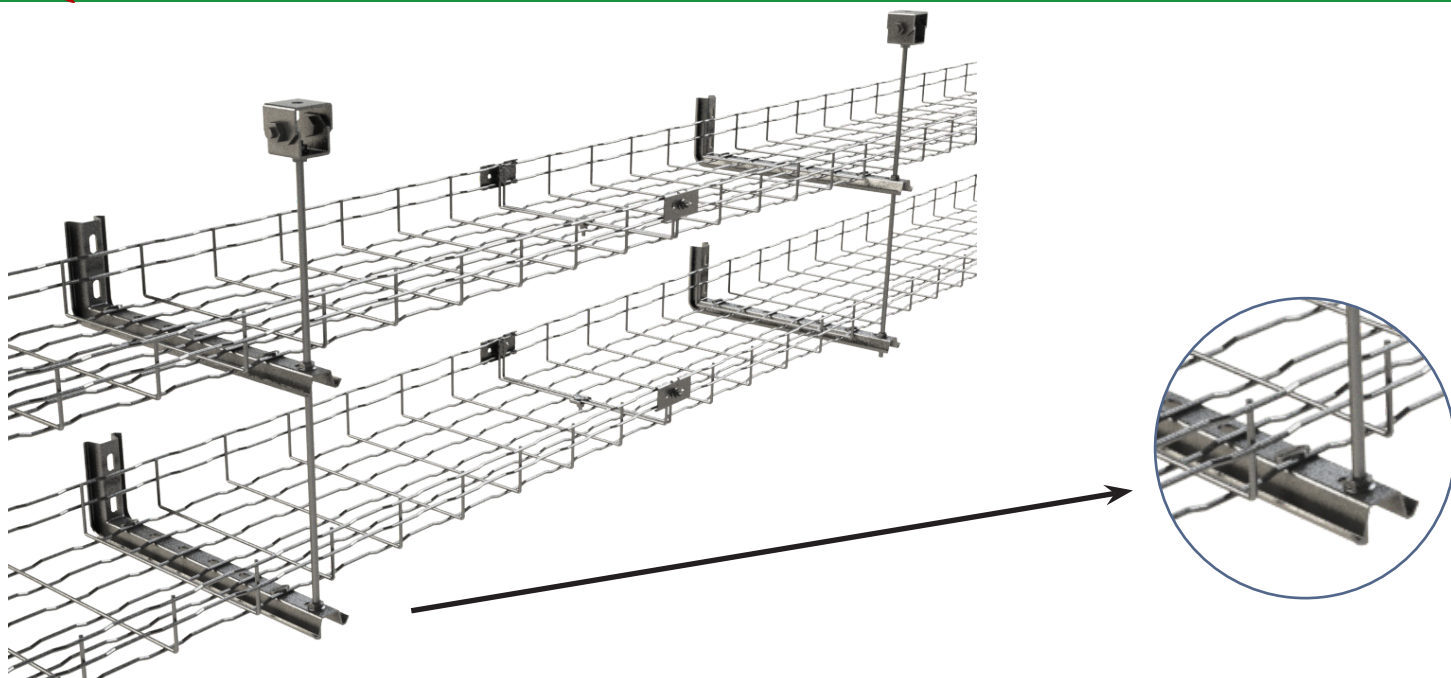
| LIST OF MATERIALS AT EACH CABLE TRAY |  |  |
|--------------------------------------|---|---|
| Basortray FRE | 3 m | 6 m |
| Screw B1 | 4 u | 8 u |

| CABLES FOR THE TEST | | | | | | |
|---------------------|-------------------------|-----------------------------|--------|-------------|-----|------|
| Manufacturer | Section | Cable reference | Type | Standard | Up | Down |
| Nexans | 2x2x0,8mm ² | RHEYHALON JE-H(St)H E30-E90 | Signal | DIN 4102-12 | E60 | E30 |
| EUPEN Kablewerk AG | 4x1,5mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | E60 | E30 |
| Prysmian | 4x16mm ² RE | Sienopyr-plus (N)HXHX E90 | Power | DIN 4102-12 | E60 | E30 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF07.00

Basket tray BFR, high 65mm (2").
Mounted at wall using threaded rods and SHO supports



BASOR ELECTRIC S.A. certifies that:

* The system RF07.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses basket tray BASORFIL BFR with a maximum width of 300mm (12"), with the coating EZ/HDG, with supports SHO, threaded rods VRM8 and variable set 4182CV and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.


CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12



TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 65mm (2") |
| Width | 300mm (12") |

LIST OF MATERIALS AT EACH SUPPORT

| |  |  |
|---------------------|---|---|
| Staple GBF | 2 u | 4 u |
| Screw B1 | 2 u | 4 u |
| Support SHO | 1 u | 2 u |
| PSHO | 1 u | 2 u |
| Threaded rod VR8 | 1 u | 2 u |
| Nut DIN6923 M8 | 5 u | 6 u |
| Screw DIN933 M8x25 | 1 u | 0 u |
| Variable Set 4182CV | 2 u | 2 u |

LIST OF MATERIALS AT EACH TRAY

| |  |  |
|--------------|---|---|
| Basorfil BFR | 3 m | 6 m |
| Union CULA | 2 u | 4 u |
| Staple CGBF | 1 u | 2 u |

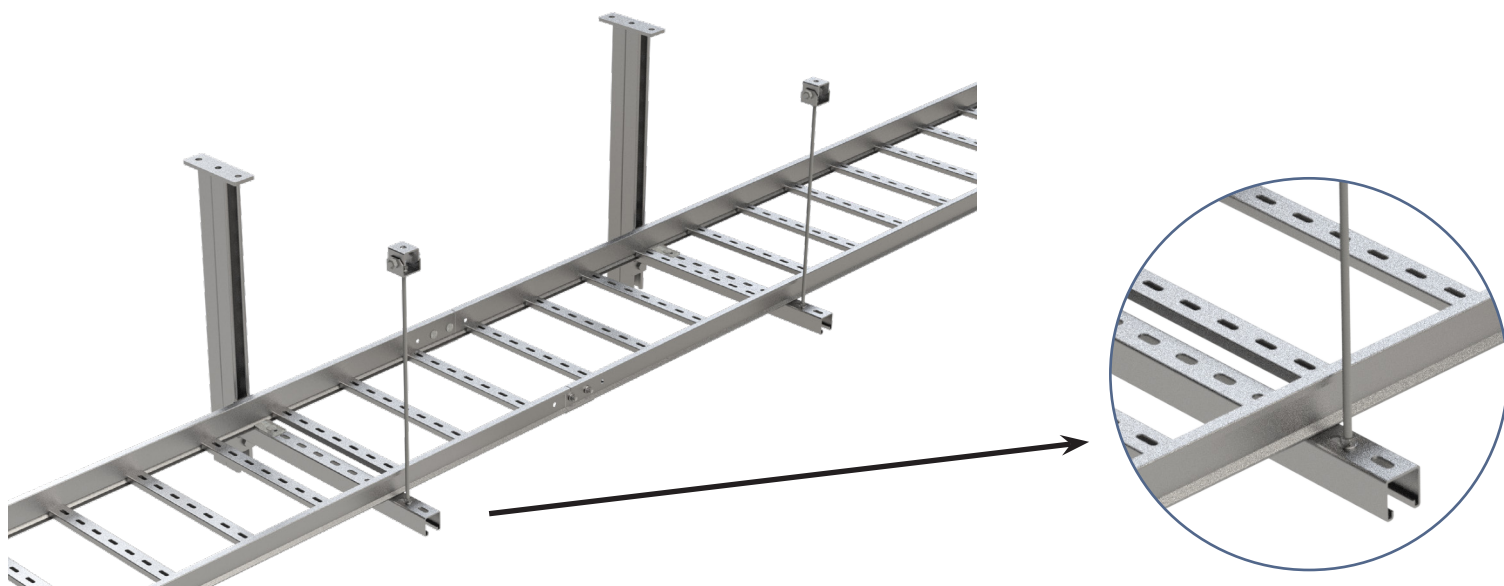
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | Standard | Result |
|--------------------|-------------------------|-----------------------------|--------|-------------|--------|
| Nexans | 2x2x0,8mm ² | RHEYHALON JE-H(St)H E30-E90 | Signal | DIN 4102-12 | E90 |
| EUPEN Kablewerk AG | 4x1,5mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | E60 |
| Prysmian | 4x16mm ² RE | Sienopyr-plus (N)HXHX E90 | Power | DIN 4102-12 | E30 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF08.00

Cable ladder FE, high 60mm (2").
Mounted at roof using threaded rods and SP & SPD supports



BASOR ELECTRIC S.A. certifies that:

* The system RF08.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable ladder BASORTRAV FE with a maximum width of 400mm (16"), with the coating HDG, with supports SP & SPD, threaded rods VRM8 and has been tested for a Safe working load of 20 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 20 kg/m |
| Maximum number of highs | 1 |
| High | 60mm (2") |
| Width | 400mm (16") |

OPTIONAL MATERIALS IN THE ASSEMBLY

| | |
|---------------------|-----|
| Variable Set 4182CV | 1 u |
| Nut DIN6923 M8 | 2 u |

LIST OF MATERIALS AT EACH SUPPORT

| | |
|---------------------|-----|
| BFE | 2 u |
| nut DIN933 M10X30 | 4 u |
| Spring nut TM41 M10 | 4 u |
| Support SP | 1 u |
| Support SPD | 1 u |
| Nut DIN6923 M8 | 2 u |
| Threaded rod VRM8 | 1 u |

LIST OF MATERIALS AT EACH TRAY

| | |
|--------------|-----|
| Basortrav FE | 3 m |
| Screw B2 | 4 u |

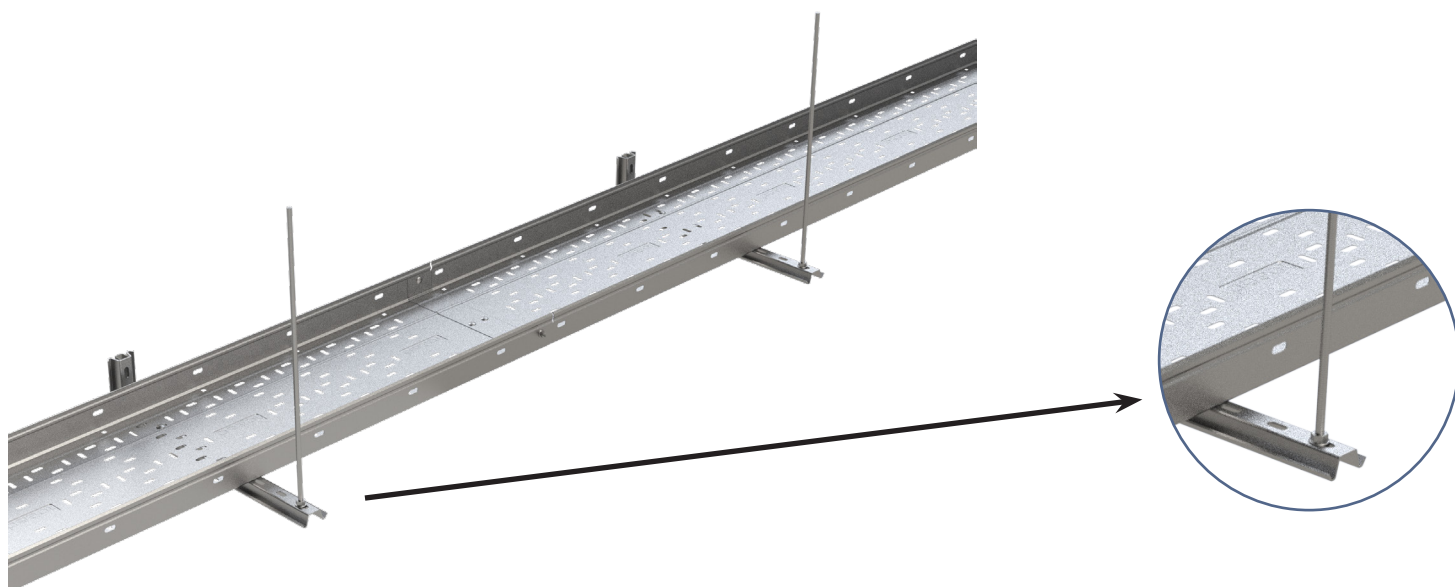
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | Standard | Result |
|--------------------|-------------------------|-----------------------------|--------|-------------|--------|
| Nexans | 2x2x0,8mm ² | RHEYHALON JE-H(St)H E30-E90 | Signal | DIN 4102-12 | E90 |
| EUPEN Kablewerk AG | 4x1,5mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | E30 |
| Prysmian | 4x16mm ² RE | Sienopyr-plus (N)HXHX E90 | Power | DIN 4102-12 | E30 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF09.00

Cable tray ERE, high 60mm (2").
Mounted at roof using threaded rods and SHO supports



BASOR ELECTRIC S.A. certifies that:

* The system RF09.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable tray BASORTRAY ERE with a maximum width of 300mm (12"), with the coating PG/HDG, with supports SHO, threaded rods VRM8 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 60mm (2") |
| Width | 300mm (12") |

OPTIONAL MATERIALS IN THE ASSEMBLY

| | |
|---------------------|-----|
| Variable Set 4182CV | 1 u |
| Tuerca DIN6923 M8 | 2 u |

LIST OF MATERIALS AT EACH SUPPORT

| | |
|------------------|-----|
| Screw B1 | 2 u |
| Support SHO | 1 u |
| PSHO | 1 u |
| Threaded rod VR8 | 1 u |
| Nut DIN6923 M8 | 2 u |

LIST OF MATERIALS AT EACH TRAY

| | |
|---------------|-----|
| Basortray ERE | 3 m |
| Screw B1 | 4 u |

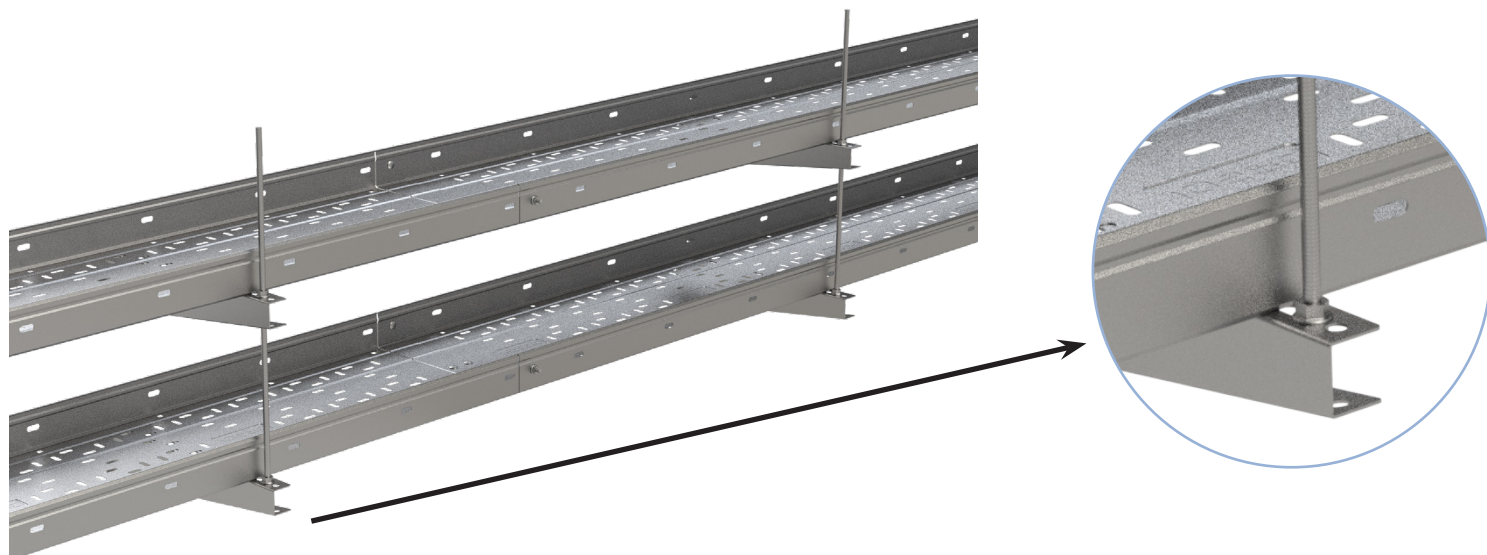
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | Standard | Result |
|--------------------|-------------------------|-----------------------------|--------|-------------|--------|
| Nexans | 2x2x0,8mm ² | RHEYHALON JE-H(St)H E30-E90 | Signal | DIN 4102-12 | E90 |
| EUPEN Kablewerk AG | 4x1,5mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | E90 |
| Prysmian | 4x16mm ² RE | Sienopyr-plus (N)HXHX E90 | Power | DIN 4102-12 | E90 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF010.00

Cable tray FRE, high 60mm (2").
Mounted at wall/roof using threaded rods and SHL supports



BASOR ELECTRIC S.A. certifies that:

* The system **RF10.00** from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable tray **BASORTRAY FRE** with a maximum width of **300mm (12")**, with the coating **PG/HDG**, with supports **SHL**, threaded rods **VRM8** and has been tested for a Safe working load of **10 kg/m** and a maximum distance between supports of **1,2 m**.



CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12



TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 60mm (2") |
| Width | 300mm (12") |



LIST OF MATERIALS AT EACH SUPPORT

| |  |  |
|------------------|---|---|
| Screw B1 | 2 u | 4 u |
| Support SHL | 1 u | 2 u |
| Threaded Rod VR8 | 1 u | 1 u |
| Nut DIN6923 M8 | 2 u | 4 u |

OPTIONAL MATERIALS IN THE ASSEMBLY

| |  |  |
|---------------------|---|---|
| Variable Set 4182CV | 1 u | 1 u |
| Nut DIN6923 M8 | 2 u | 2 u |

LIST OF MATERIALS AT EACH TRAY

| |  |  |
|---------------|---|---|
| Basortray FRE | 2 u | 4 u |
| Screw B1 | 1 u | 2 u |

CABLES FOR THE TEST

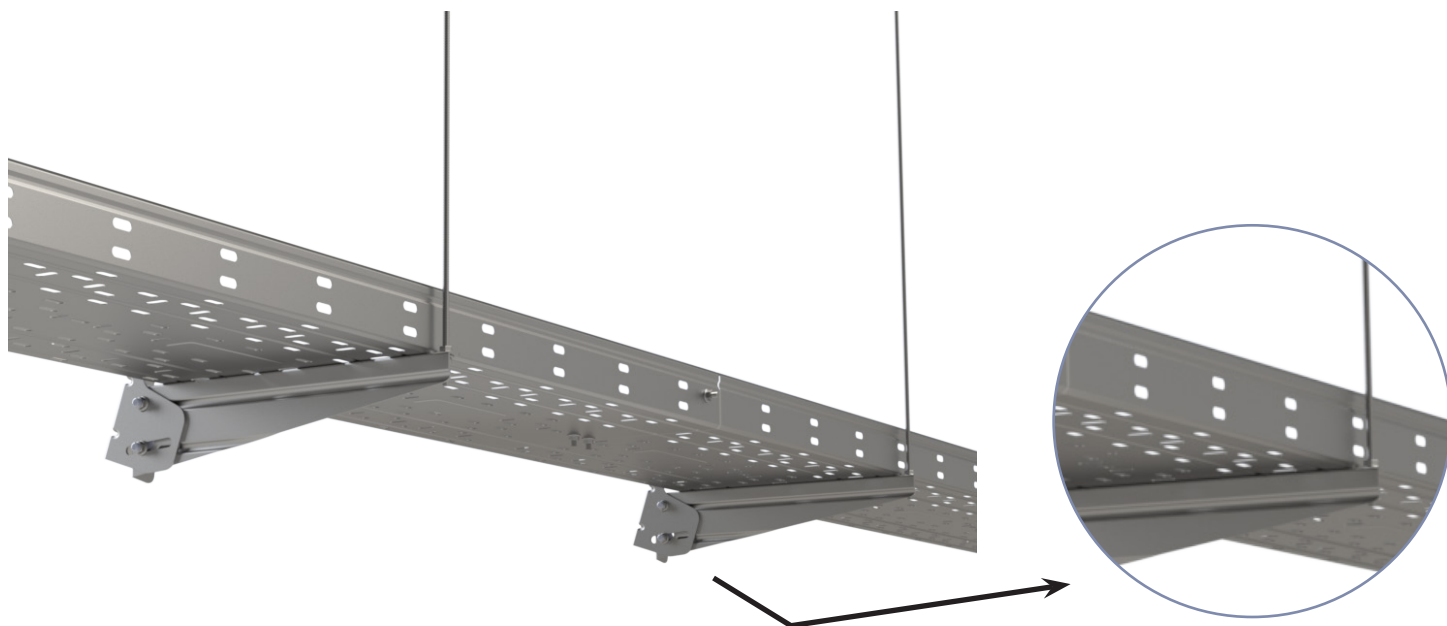
| Manufacturer | Section | Cable reference | Type | Standard | Result |
|--------------------|-------------------------|-----------------------------|--------|-------------|--------|
| Nexans | 2x2x0,8mm ² | RHEYHALON JE-H(St)H E30-E90 | Signal | DIN 4102-12 | E30 |
| EUPEN Kablewerk AG | 4x1,5mm ² RE | EUCASAFE NHHX FE 180 E90 | Power | DIN 4102-12 | E90 |
| Prysmian | 4x16mm ² RE | Sienopyr-plus (N)HXXH E90 | Power | DIN 4102-12 | E90 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF11.00

Cable tray ERE, high 60mm (2").

Mounted at wall/inclined wall using articulated wall bracket and SCR supports



BASOR ELECTRIC S.A. certifies that:

* The system RF11.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable tray BASORTRAY ERE with a maximum width of 300mm (12"), with the coating PG/HDG, with articulated wall bracket KS, supports SCR and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 1 |
| High | 60mm (2") |
| Width | 300mm (12") |

| LIST OF MATERIALS AT EACH SUPPORT | |
|-----------------------------------|-----|
| Screw B1 | 2 u |
| Support SCR | 1 u |
| Wall bracket KS 50-400 | 1 u |
| Screw B2 | 2 u |
| Threaded rod M6 | 1 u |
| DIN6923 M6 | 4 u |
| Variable set 4182CV | 1 u |

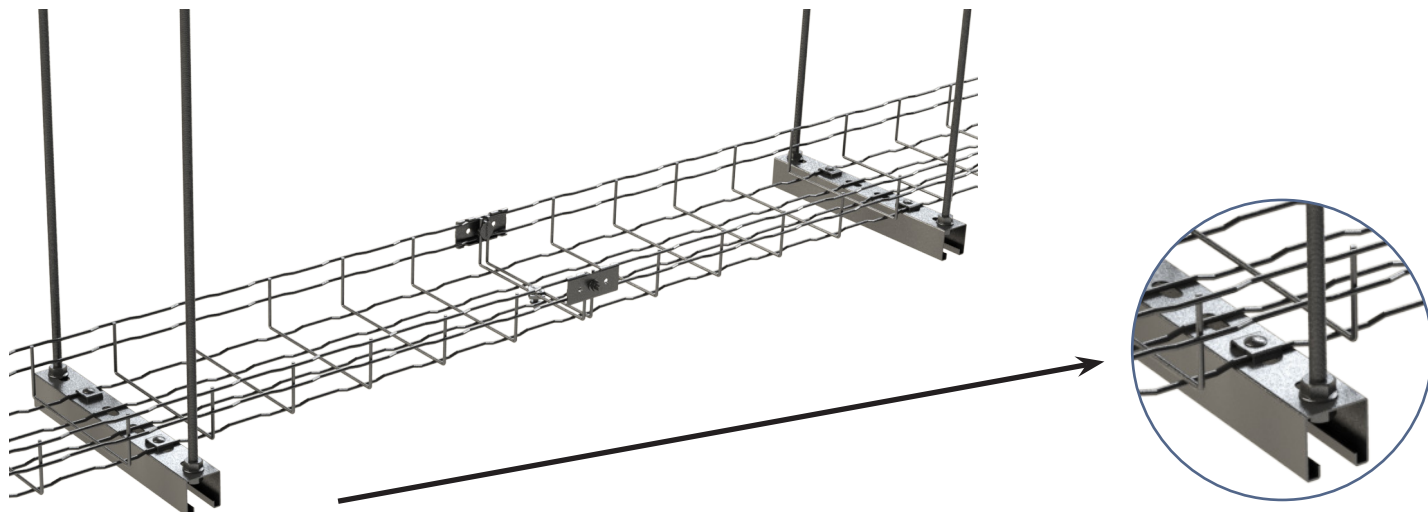
| LIST OF MATERIALS AT EACH TRAY | |
|--------------------------------|-----|
| Basortray ERE | 3 m |
| Screw B1 | 3 u |

| CABLES FOR THE TEST | | | | | | |
|---------------------|------------------------|------------------------------------|--------|-------------|---------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Veiki | Result |
| EUPEN kabelwerk AG | 4x50mm ² RM | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | 609/VNL | E90 |
| EUPEN kabelwerk AG | 4x16mm ² RM | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | 609/VNL | E90 |
| EUPEN kabelwerk AG | 2x2x0,8mm ² | EUCASAFE JE-H(St)H...Bd FE 180 E90 | Signal | DIN 4102-12 | 609/VNL | E60 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF12.00

Basket tray BFR, high 65mm (2").
Mounted at roof using threaded rods and 41x41 profiles



BASOR ELECTRIC S.A. certifies that:

* The system RF12.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses basket tray BASORFIL BFR with a maximum width of 300mm (12"), with the coating EZ/HDG, with profiles 41x41, threaded rods VRM10 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 65mm (2") |
| Width | 300mm (12") |

| LIST OF MATERIALS AT EACH SUPPORT | |
|-----------------------------------|-------|
| Screw B1 | 2 u |
| Staple GBF | 2 u |
| Washer DIN9021 M6 | 2 u |
| Profile P41 41x41x1,5 | 0,4 m |
| Threaded rod VR10 | 2 u |
| Nut DIN934 M10 | 4 u |
| Washer DIN125 M10 | 4 u |

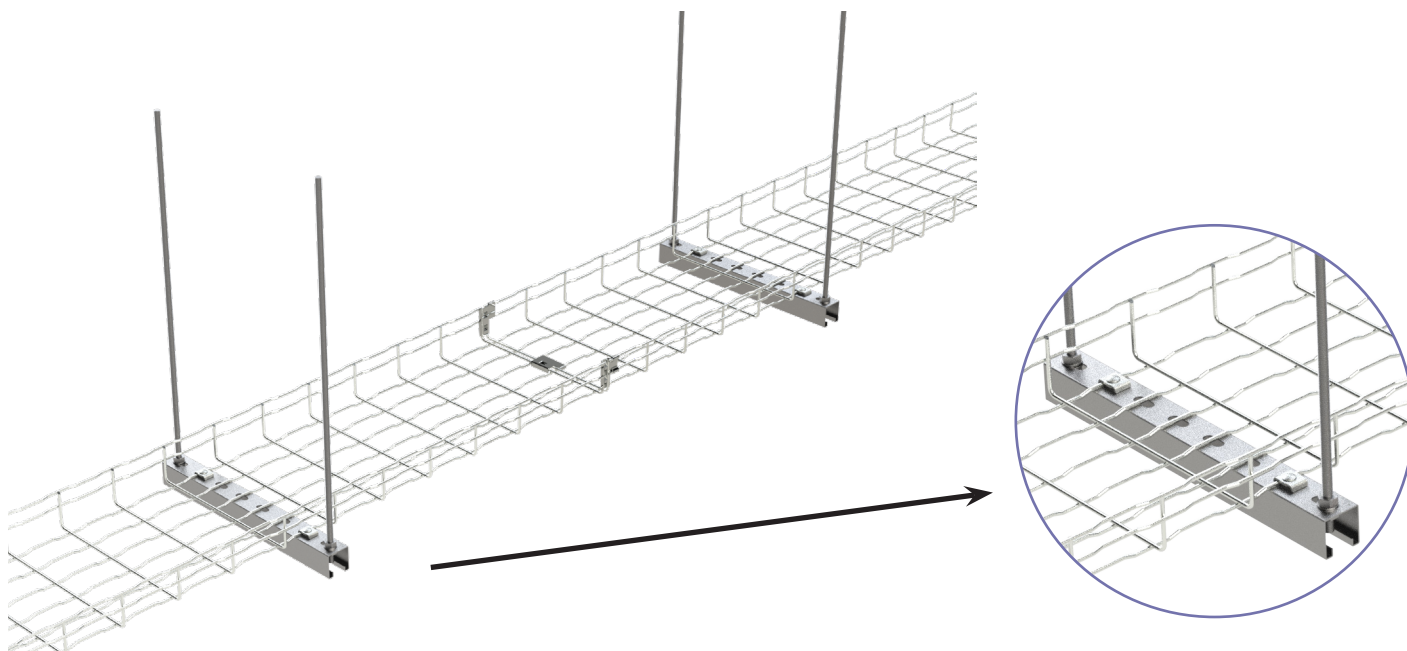
| LIST OF MATERIALS AT EACH SUPPORT | |
|-----------------------------------|-----|
| Basorfil BFR | 3 m |
| Union CULA | 2 u |
| Staple CGBF | 1 u |

| CABLES FOR THE TEST | | | | | | |
|---------------------|-------------------------|------------------------------------|--------|-------------|---------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Veiki | Result |
| EUPEN kabelwerk AG | 4x1,5mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | 610/VNL | E30 |
| EUPEN kabelwerk AG | 4x16mm ² RM | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | 610/VNL | E90 |
| EUPEN kabelwerk AG | 4x50mm ² RM | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12 | 610/VNL | E90 |
| EUPEN kabelwerk AG | 2x2x0,8mm ² | EUCASAFE JE-H{St}H...Bd FE 180 E90 | Signal | DIN 4102-12 | 610/VNL | E60 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF13.00

Basket tray BF2R, high 65mm (2").
Mounted at roof using threaded rods and 41x41 profiles



BASOR ELECTRIC S.A. certifies that:


* The system RF13.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.


* The assembly uses basket tray BASORFIL BF2R with a maximum width of 300mm (12"), with the coating EZ/Z1000, with profiles 41x41, threaded rods VRM8 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|-------------|
| Distance between supports | 1,1 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 1 |
| High | 65mm (2") |
| Width | 300mm (12") |

| LIST OF MATERIALS AT EACH SUPPORT | |  |
|-----------------------------------|-------|---|
| Screw B1 | 2 u | |
| Staple GBF | 2 u | |
| Washer DIN9021 M6 | 2 u | |
| Profile P41 41x41x1,5 | 0,4 m | |
| Threaded rod VRM10 | 2 u | |
| Nut DIN934 M10 | 4 u | |
| Washer DIN125 M10 | 4 u | |

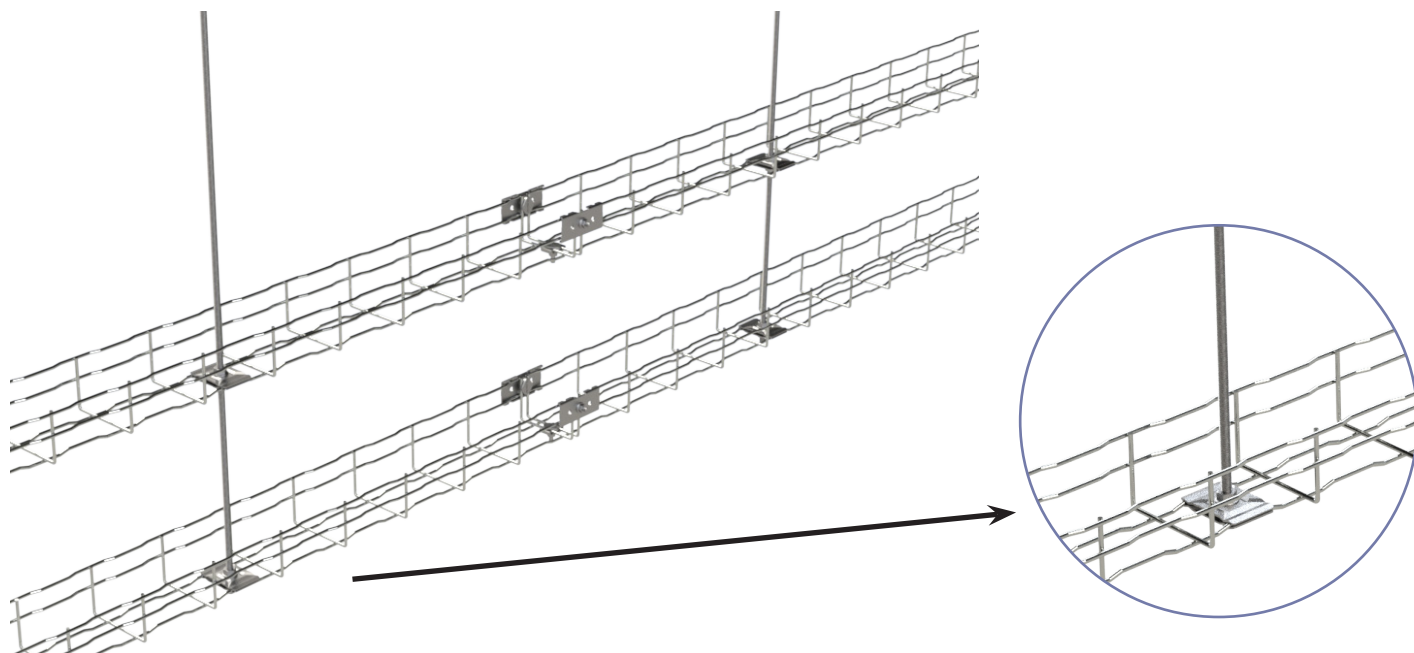
| LIST OF MATERIALS AT EACH SUPPORT | |  |
|-----------------------------------|-----|---|
| Basorfil BF2R | 3 m | |

| CABLES FOR THE TEST | | | | | | |
|---------------------|------------------------|------------------------------------|----------|-------------|---------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Veiki | Result |
| EUPEN kabelwerk AG | 4x16mm ² RM | EUCASAFE NHXH FE 180 E90 | Potencia | DIN 4102-12 | 611/VNL | E90 |
| EUPEN kabelwerk AG | 4x50mm ² RM | EUCASAFE NHXH FE 180 E90 | Potencia | DIN 4102-12 | 611/VNL | E90 |
| EUPEN kabelwerk AG | 2x2x0,8mm ² | EUCASAFE JE-H(St)H...Bd FE 180 E90 | Señal | DIN 4102-12 | 611/VNL | E90 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF14.00

Basket tray BFR, 100x65mm (4x2").
Mounted at wall using threaded rods and SSC supports



BASOR ELECTRIC S.A. certifies that:

* The system RF14.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.



* The assembly uses basket tray BASORFIL BFR with a maximum width of 100mm (4"), with the coating EZ/HDG, with supports SSC, threaded rods VRM8 and has been tested for a Safe working load of 5 kg/m and a maximum distance between supports of 1,2 m.



CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|------------|
| Distance between supports | 1,2 m |
| Maximum load | 5 kg/m |
| Maximum number of highs | 2 |
| High | 65mm (2") |
| Width | 100mm (4") |

| LIST OF MATERIALS AT EACH SUPPORT |  |  |
|-----------------------------------|---|---|
| Support SSC | 2 u | 4 u |
| Threaded Rod VR8 | 1 u | 1 u |
| Nut DIN6923 M8 | 2 u | 4 u |

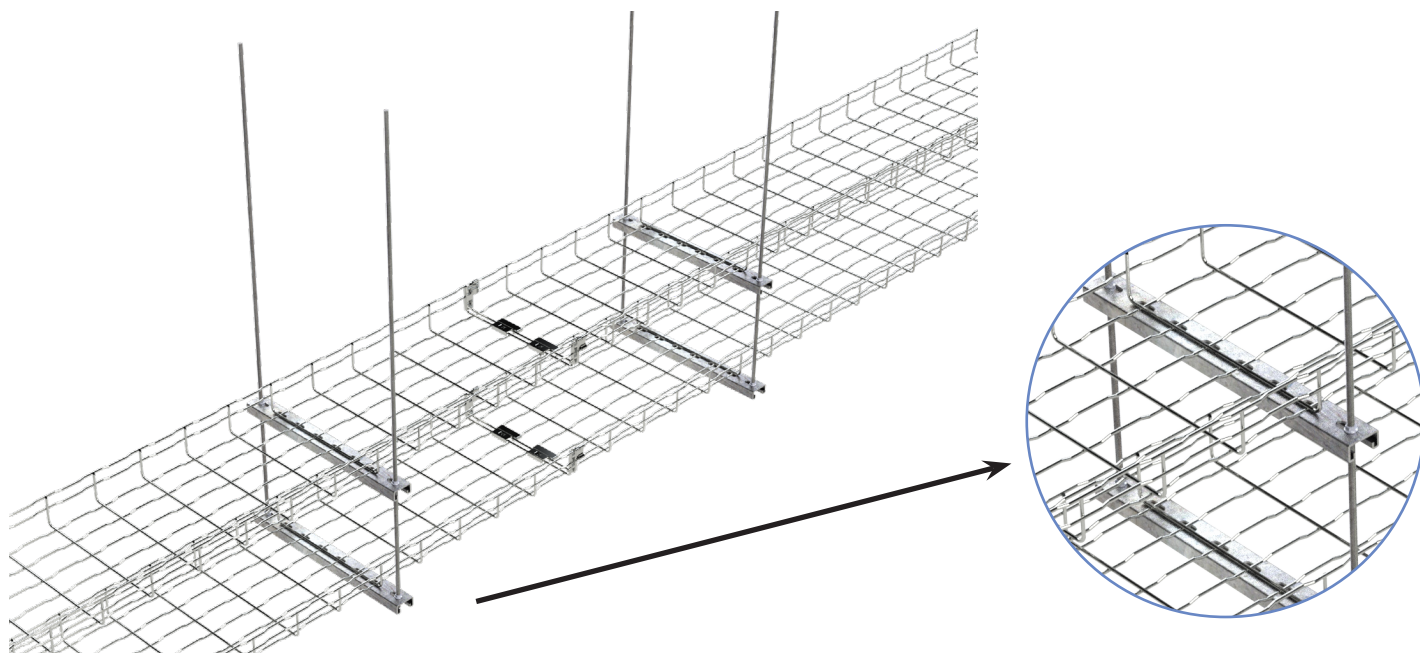
| LIST OF MATERIALS AT EACH TRAY |  |  |
|--------------------------------|---|---|
| Basorfil BFR | 3 m | 6 m |
| Union CULA | 2 u | 4 u |
| Staple CGBF | 1 u | 2 u |

| CABLES FOR THE TEST | | | | | | |
|---------------------|-------------------------|------------------------------------|--------|---------------------------------------|---------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Veiki | Result |
| EUPEN kabelwerk AG | 4x1,5mm ² RE | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | 612/VNL | E90 |
| EUPEN kabelwerk AG | 4x16mm ² RM | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | 612/VNL | E90 |
| EUPEN kabelwerk AG | 4x50mm ² RM | EUCASAFE NHXH FE 180 E90 | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | 612/VNL | E90 |
| EUPEN kabelwerk AG | 2x2x0,8mm ² | EUCASAFE JE-H(St)H...Bd FE 180 E90 | Signal | DIN 4102-12, CSN 73 0895, STN 92 0205 | 612/VNL | E60 |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF15.00

Basket tray BF2R, high 65mm (2").
Mounted at roof using threaded rods and 41x21 profiles



BASOR ELECTRIC S.A. certifies that:

* The system RF15.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.



* The assembly uses basket tray BASORFIL BF2R with a maximum width of 300mm (12"), with the coating EZ/EZ1000, with supports 41X21, threaded rods VRM8 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.



CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* CSN 73 0895

* STN 92 0205

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 65mm (2") |
| Width | 300mm (12") |

| LIST OF MATERIALS AT EACH SUPPORT |  |  |
|-----------------------------------|---|---|
| Staple CGBF | 2 u | 4 u |
| Nut DIN9021 M6 | 2 u | 4 u |
| Profile P41 41x21x2,5 | 0,4 m | 0,4 m |
| Threaded rod VR8 | 2 u | 2 u |
| Nut DIN6923 M8 | 4 u | 8 u |
| Screw B1 | 2 u | 4 u |

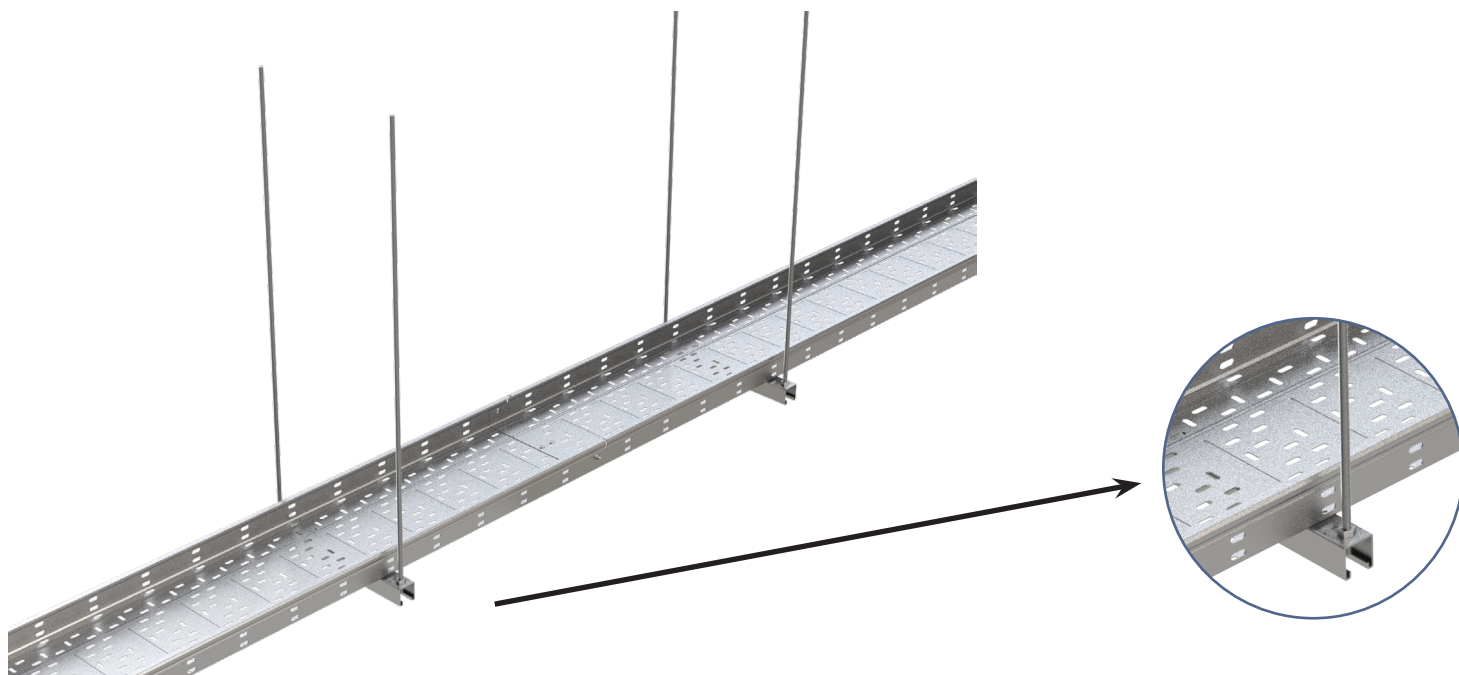
| LIST OF MATERIALS AT EACH TRAY |  |  |
|--------------------------------|---|---|
| Basorfil BF2R | 3 m | 6 m |

| CABLES FOR THE TEST | | | | | |
|-----------------------|-------------------------|---|-------|--------------------------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Result |
| Lamela Electric, a.s. | 4x1,5mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | CSN 73 0895, STN 92 0205 | P30-R |
| Lamela Electric, a.s. | 4x16mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | CSN 73 0895, STN 92 0205 | P15-R |
| Nkt cables | 4x1,5mm ² RE | NOPOVIC 1-CXKH-V FE180/P90-R, B2ca,s1,d0,a1 | Power | CSN 73 0895, STN 92 0205 | P30-R |
| Nkt cables | 4x50mm ² SM | NOPOVIC 1-CXKH-V FE180/P90-R, B2ca,s1,d0,a1 | Power | CSN 73 0895, STN 92 0205 | P60-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF16.00

Cable tray FRE, high 60mm (2").
Mounted at roof using threaded rods and 41x41 profiles



BASOR ELECTRIC S.A. certifies that:

* The system RF16.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable tray BASORTRAY FRE with a maximum width of 300mm (12"), with the coating PG/HDG, with profiles 41x41, threaded rods VRM10 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 1 |
| High | 60mm (2") |
| Width | 300mm (12") |

LIST OF MATERIALS AT EACH SUPPORT

| | |
|-----------------------|-------|
| Screw B1 | 2 u |
| Profile P41 41X41X2,5 | 0,4 m |
| Threaded rod VR10 | 2 u |
| Nut DIN934 M10 | 4 u |

LIST OF MATERIAL AT EACH TRAY

| | |
|---------------|-----|
| Basortray FRE | 3 m |
| Screw B1 | 4 u |

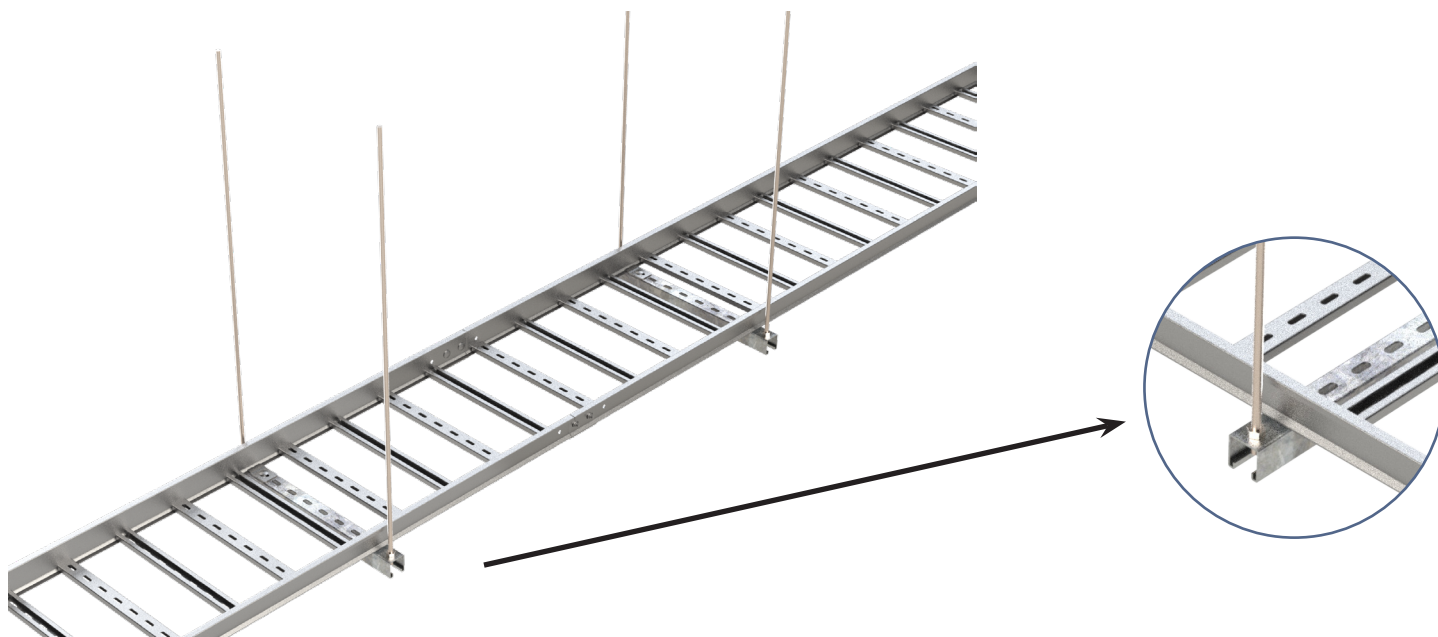
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | Standard | Result |
|-----------------------|-------------------------|---|--------|---------------------------------------|--------|
| Lamela Electric, a.s. | 2x2x0,8mm ² | JSFE-V FE180/P30-90-R B2ca,s1,d0,d1,a1 UV | Signal | DIN 4102-12, CSN 73 0895, STN 92 0205 | P15-R |
| Lamela Electric, a.s. | 4x1,5mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P60-R |
| Lamela Electric, a.s. | 4x16mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P60-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF17.00

Cable ladder FE, high 60mm (2").
Mounted at roof using threaded rods and 41x41 profiles



BASOR ELECTRIC S.A. certifies that:

* The system RF17.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable ladder BASORTRAV FE with a maximum width of 400mm (12"), with the coating HDG, with profiles 41x41, threaded rods VRM10 and has been tested for a Safe working load of 20 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 20 kg/m |
| Maximum number of highs | 1 |
| High | 60mm (2") |
| Width | 300mm (16") |

LIST OF MATERIALS AT EACH SUPPORT

| | |
|-----------------------|-------|
| Screw B2 | 2 u |
| Profile P41 41X41X2,5 | 0,5 m |
| Threaded rod VRM10 | 2 u |
| Nut DIN934 M10 | 4 u |
| BFE 6/8 | 2 u |

LIST OF MATERIALS AT EACH TRAY

| | |
|--------------|-----|
| Basortrav FE | 3 m |
| Screws B2 | 4 u |

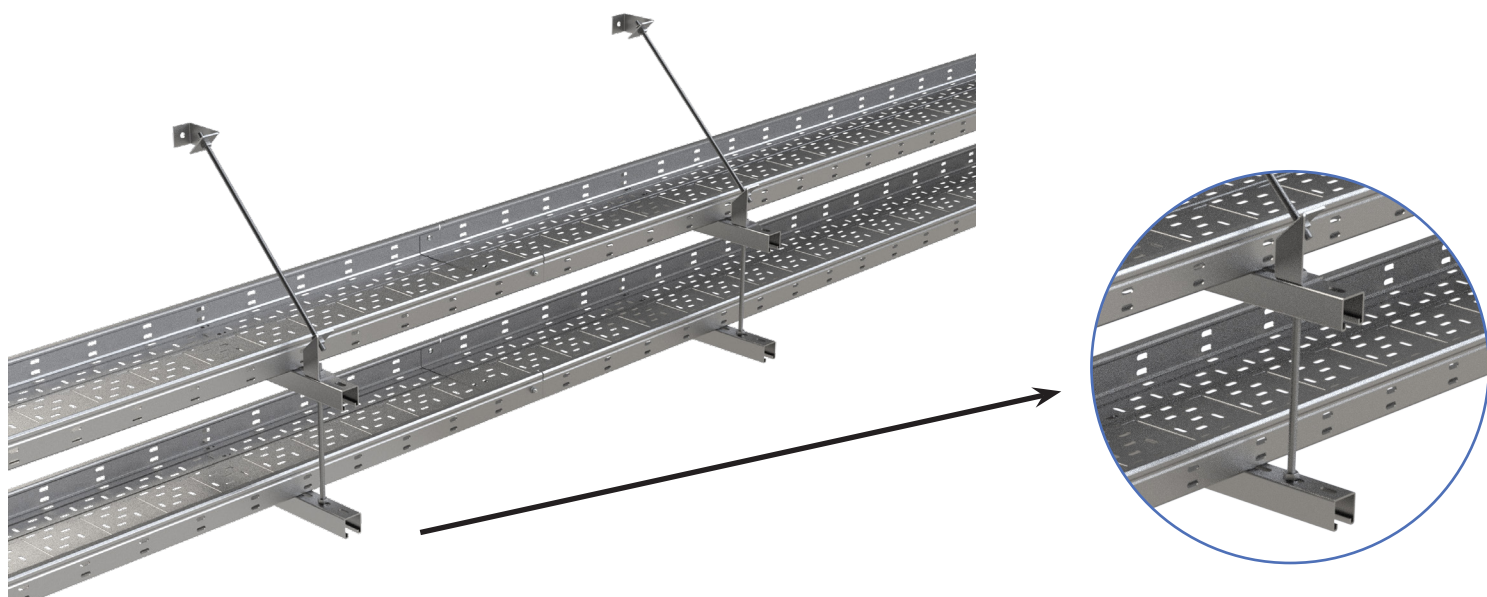
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | Standard | Result |
|-----------------------|-------------------------|---|--------|---------------------------------------|--------|
| Lamela Electric, a.s. | 2x2x0,8mm ² | JSFE-V FE180/P30-90-R B2ca,s1,d0,d1,a1 UV | Signal | DIN 4102-12, CSN 73 0895, STN 92 0205 | P30-R |
| Lamela Electric, a.s. | 4x1,5mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P30-R |
| Lamela Electric, a.s. | 4x16mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P15-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF018.00

Cable tray FRE, high 60mm (2").
Mounted at wall using threaded rods and SP supports



BASOR ELECTRIC S.A. certifies that:

* The system RF18.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.



* The assembly uses cable tray BASORTRAY FRE with a maximum width of 300mm (12"), with the coating PG/HDG, with supports SP, threaded rods VR10 and a special piece PFV45, all has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.



CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 2 |
| High | 60mm (2") |
| Width | 300mm (12") |

| LIST OF MATERIALS AT EACH SUPPORT |  |  |
|-----------------------------------|---|---|
| Screw B1 | 2 u | 4 u |
| Support SP | 1 u | 2 u |
| Threaded rod VR10 | 1 u | 1 u |
| Nut DIN934 M10 | 2 u | 4 u |
| Screw B3 | 1 u | 0 u |
| PFV45 | 2 u | 2 u |

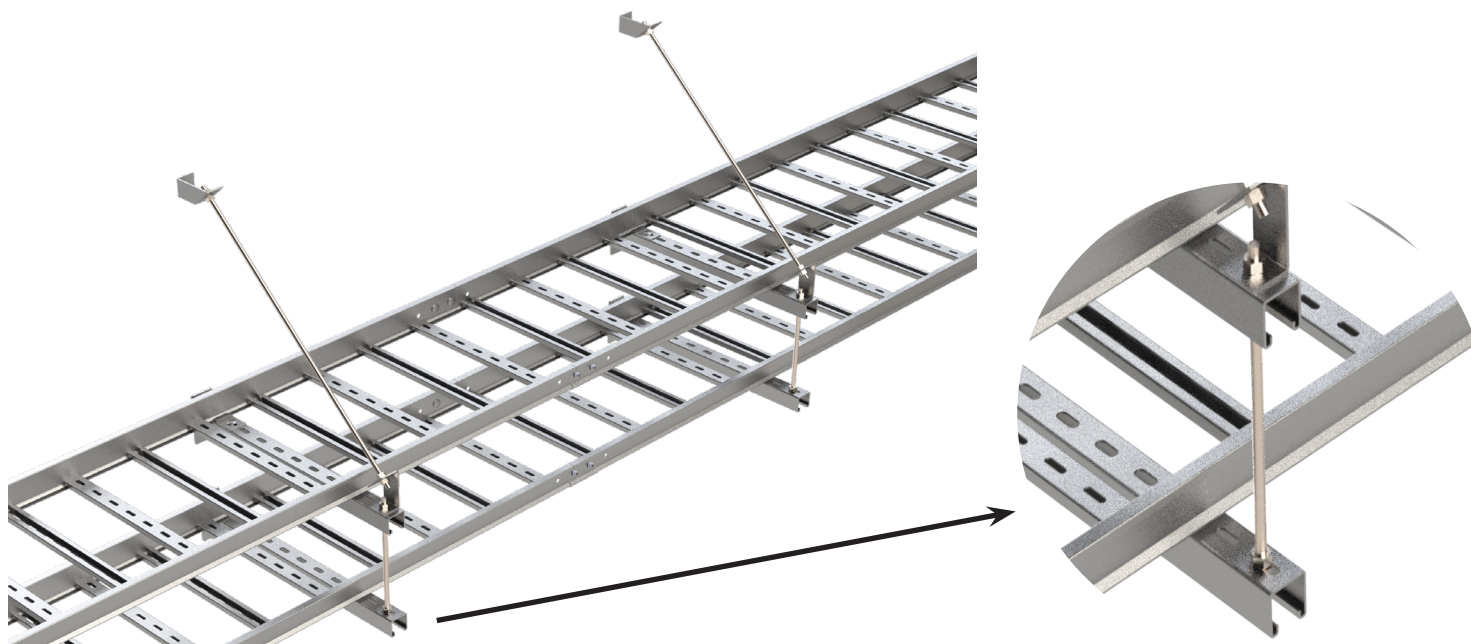
| LIST OF MATERIALS AT EACH TRAY |  |  |
|--------------------------------|---|---|
| Basortray FRE | 3 m | 6 m |
| Screw B1 | 4 u | 8 u |

| CABLES FOR THE TEST | | | | | |
|-----------------------|-------------------------|---|--------|---------------------------------------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Result |
| Lamela Electric, a.s. | 2x2x0,8mm ² | JSFE-V FE180/P30-90-R B2ca,s1,d0,d1,a1 UV | Signal | DIN 4102-12, CSN 73 0895, STN 92 0205 | P60-R |
| Lamela Electric, a.s. | 4x1,5mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P90-R |
| Lamela Electric, a.s. | 4x16mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P60-R |
| Nkt cables | 4x1,5mm ² RE | NOPOVIC 1-CXKH-V FE180/P90-R, B2ca,s1,d0,a1 | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P15-R |
| Nkt cables | 4x50mm ² SM | NOPOVIC 1-CXKH-V FE180/P90-R, B2ca,s1,d0,a1 | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P60-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF20.00

Cable ladder FE, high 60mm (2").
Mounted at wall using threaded rods and SP supports



BASOR ELECTRIC S.A. certifies that:

* The system RF20.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable ladder BASORTRAV FE with a maximum width of 400mm (16"), with the coating HDG, with supports SP, threaded rods VR10 and a special piece PFV45, all has been tested for a Safe working load of 20 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 20 kg/m |
| Maximum number of highs | 2 |
| High | 60mm (2") |
| Width | 400mm (16") |

| LIST OF MATERIALS AT EACH SUPPORT | | | |
|-----------------------------------|-----|-----|--|
| Screw B1 | 2 u | 4 u | |
| Support SP | 1 u | 2 u | |
| Threaded rod VR10 | 1 u | 1 u | |
| Nut DIN934 M10 | 4 u | 8 u | |
| Screw B3 | 1 u | 0 u | |
| PFV45 | 2 u | 2 u | |
| BFE M6/8 | 2 u | 4 u | |

| LIST OF MATERIALS AT EACH TRAY | | | |
|--------------------------------|-----|-----|--|
| Basortrav FE | 3 m | 6 m | |
| Screw B2 | 4 u | 8 u | |

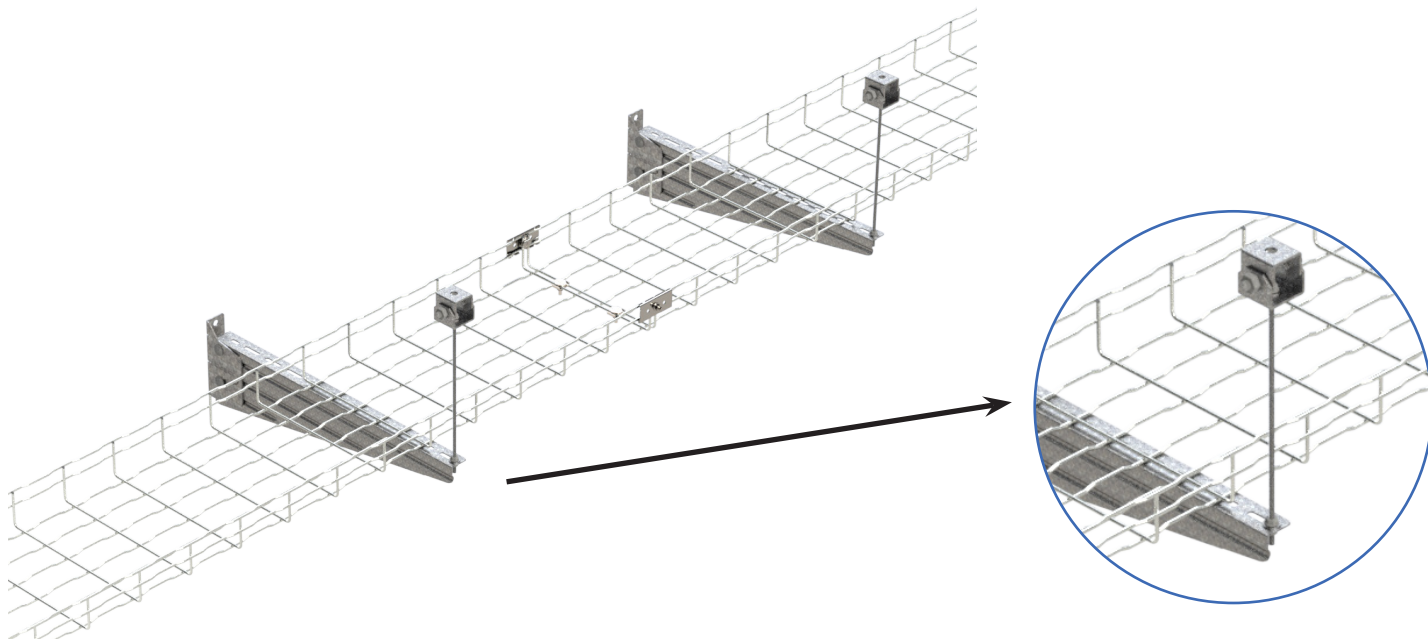
| CABLES FOR THE TEST | | | | | |
|-----------------------|-------------------------|---|--------|---------------------------------------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Result |
| Lamela Electric, a.s. | 2x2x0,8mm ² | JSFE-V FE180/P30-90-R B2ca,s1,d0,d1,a1 UV | Signal | DIN 4102-12, CSN 73 0895, STN 92 0205 | P45-R |
| Lamela Electric, a.s. | 4x1,5mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P45-R |
| Lamela Electric, a.s. | 4x16mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P15-R |
| Nkt cables | 4x1,5mm ² RE | NOPOVIC 1-CXKH-V FE180/P90-R, B2ca,s1,d0,a1 | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P60-R |
| Nkt cables | 4x50mm ² SM | NOPOVIC 1-CXKH-V FE180/P90-R, B2ca,s1,d0,a1 | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P15-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF21.00

Basket tray BFR, high 65mm (2").

Mounted at wall using threaded rods, articulated wall brackets and SCR supports



BASOR ELECTRIC S.A. certifies that:

* The system RF21.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses basket tray BASORFIL BFR with a maximum width of 300mm (12"), with the coating Stainless Steel i3016, with supports SCR, threaded rods VRM6 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 1 |
| High | 65mm (2") |
| Width | 300mm (12") |

LIST OF MATERIALS AT EACH SUPPORT



| | |
|------------------------|-----|
| Screw B1 | 2 u |
| Staple GBF | 2 u |
| Articulated bracket KS | 1 u |
| Support SCR | 1 u |
| Threaded Rod VRM6 | 1 u |
| Nut DIN6923 M6 | 4 u |
| Screw B2 | 2 u |
| Variable Set 4182CV | 1 u |

LIST OF MATERIALS AT EACH TRAY



| | |
|----------------|-----|
| Basorfil BFR | 3 m |
| Union CULA | 2 u |
| Nut DIN9021 M6 | 2 u |

CABLES FOR THE TEST

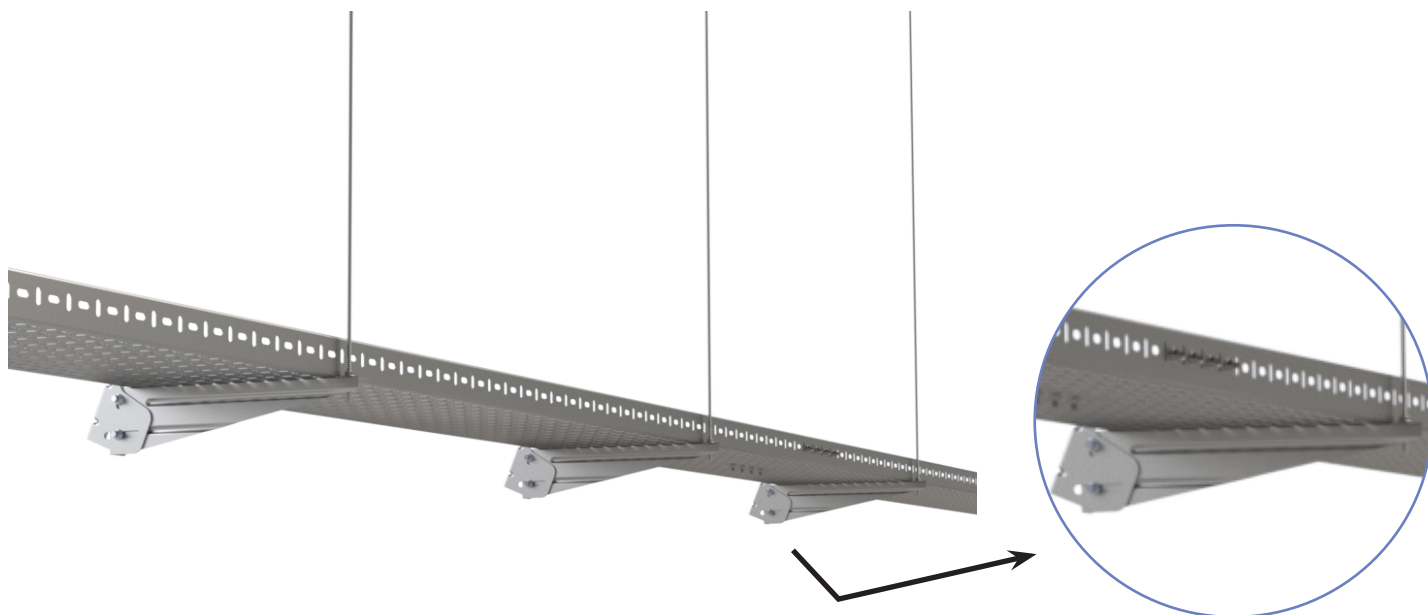
| Manufacturer | Section | Cable reference | Type | Standard | Result |
|-----------------------|-------------------------|---|--------|---------------------------------------|--------|
| Lamela Electric, a.s. | 2x2x0,8mm ² | JSFE-V FE180/P30-90-R B2ca,s1,d0,d1,a1 UV | Signal | DIN 4102-12, CSN 73 0895, STN 92 0205 | P15-R |
| Lamela Electric, a.s. | 4x1,5mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P60-R |
| Lamela Electric, a.s. | 4x16mm ² RM | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P15-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF22.00

Cable tray BS, high 50mm (2").

Mounted at wall using threaded rods, articulated wall brackets and SCR supports



BASOR ELECTRIC S.A. certifies that:

* The system RF22.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable tray BASORTRAY BS with a maximum width of 300mm (12"), with the coating Stainless Steel i316, with supports SCR, threaded rods VRM6 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

| TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY | |
|--|--------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 1 |
| High | 50 mm (2") |
| Width | 300 mm (12") |

| LIST OF MATERIALS AT EACH SUPPORT | |
|-----------------------------------|-----|
| Screw B1 | 2 u |
| Variable Set 4182CV | 1 u |
| Articulated bracket KS | 1 u |
| Support SCR | 1 u |
| Threaded Rod VRM6 | 1 u |
| Nut DIN9021 M6 | 4 u |
| Screw B2 | 2 u |

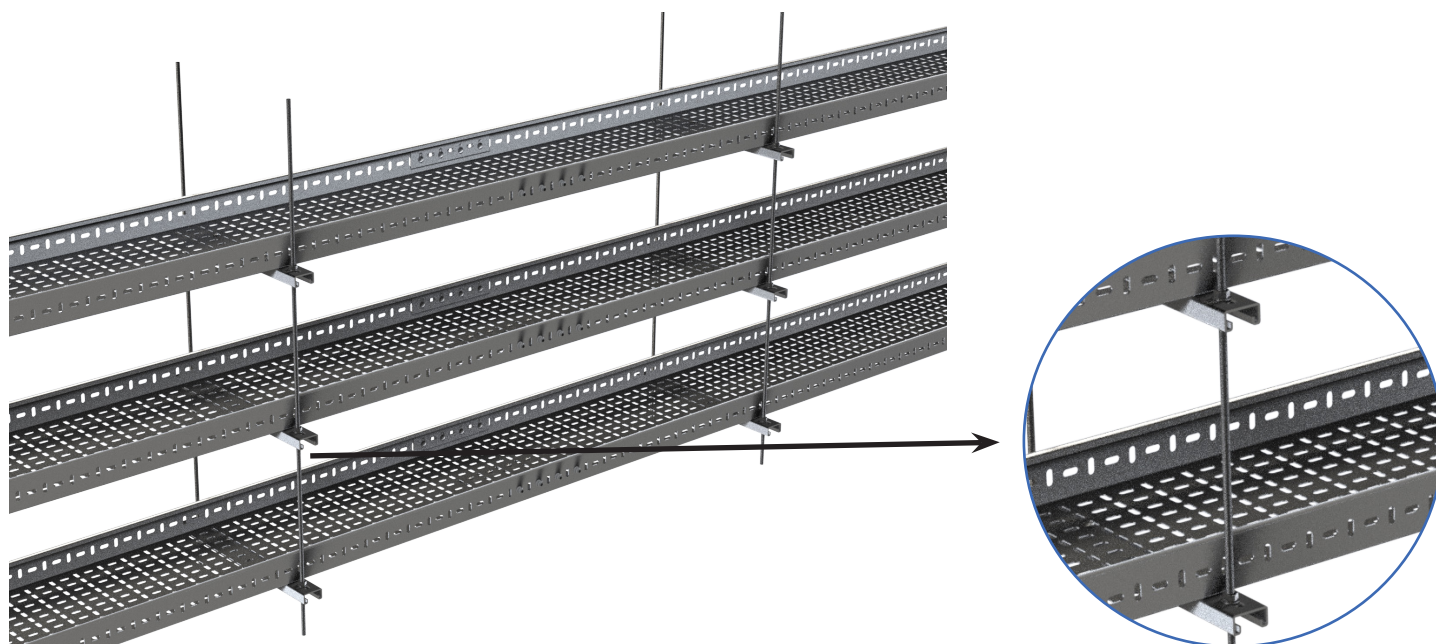
| LIST OF MATERIALS AT EACH TRAY | |
|--------------------------------|------|
| Basortray BS | 3 m |
| Union JUBS | 3 u |
| Screw B1 | 12 u |

| CABLES FOR THE TEST | | | | | |
|-----------------------|-------------------------|---|--------|---------------------------------------|--------|
| Manufacturer | Section | Cable reference | Type | Standard | Result |
| Lamela Electric, a.s. | 2x2x0,8mm ² | JSFE-V FE180/P30-90-R B2ca,s1,d0,d1,a1 UV | Signal | DIN 4102-12, CSN 73 0895, STN 92 0205 | P90-R |
| Lamela Electric, a.s. | 4x1,5mm ² RE | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P45-R |
| Lamela Electric, a.s. | 4x16mm ² RM | 1-CSKE-V FE180/P90-R, B2ca,s1,d0,a1 UV | Power | DIN 4102-12, CSN 73 0895, STN 92 0205 | P90-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF23.00

Cable tray BS, high 60mm (2").
Mounted at roof using threaded rods and 41x21 profiles



BASOR ELECTRIC S.A. certifies that:

* The system RF23.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable tray BASORTRAY BS with a maximum width of 300mm (12"), with the coating PG/HDG, with 41x21 profiles, threaded rods VRM8 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,2 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12

* CSN 73 0895 * STN 92 0205

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 3 |
| High | 60mm (2") |
| Width | 300mm (12") |

| LIST OF MATERIALS AT EACH SUPPORT | | | |
|-----------------------------------|-------|-------|-------|
| Screw B1 M6x14 | 2 u | 4 u | 6 u |
| Washer DIN 9021 M6 | 2 u | 4 u | 6 u |
| Profile P41 41X21X2,5 | 0,4 m | 0,8 m | 1,2 m |
| Threaded Rod VRM8 | 2 u | 2 u | 2 u |
| Nut DIN 6923 M8 | 4 u | 8 u | 16 u |

| LIST OF MATERIALS AT EACH TRAY | | | |
|--------------------------------|------|------|------|
| Basortray BS | 3 m | 6 m | 9 m |
| Union JUBS | 3 u | 6 u | 9 u |
| Screw B1 M6x14 | 12 u | 24 u | 36 u |

CABLES FOR THE TEST

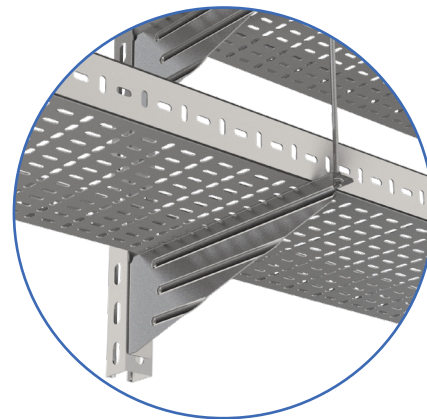
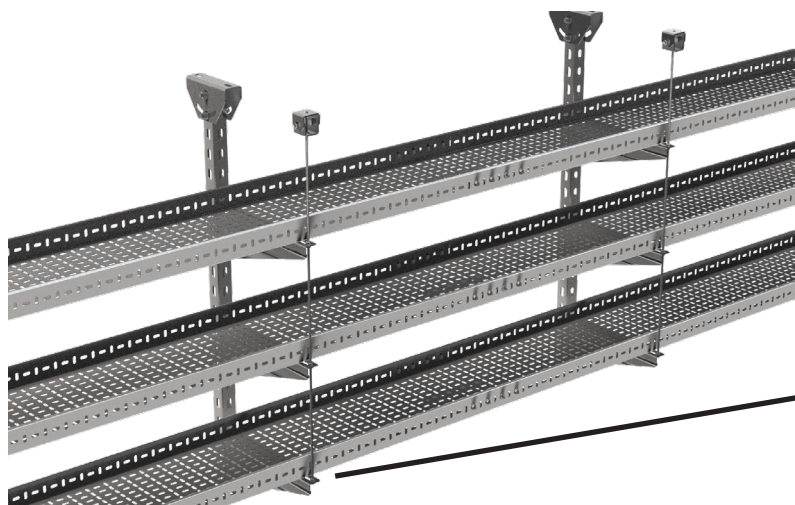
| Manufacturer | Section | Cable reference | Type | DIN 4102-12 | STN/ ČSN |
|--------------|-------------------------|--|--------|-------------|----------|
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 90 4x1,5 P90-R, PS90 B2ca s1d1 | Power | E60 | P60-R |
| PRAKAB | 4x50 mm ² | PRAFlaDur 90 4x50 P90-R, PS90 B2ca s1d1 | Power | E90 | P90-R |
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Power | E60 | P60-R |
| PRAKAB | 4x50 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Power | E60 | P60-R |
| PRAKAB | 1x2x0,8 mm ² | PRAFlaGuard F SSKFH-V180 P15-R - P90-R | Signal | E90 | P90-R |
| PRAKAB | 4x2X0,5mm ² | PRAFlaGuard FTP TCSPKFH-V180 P15-R - P90 | Signal | E90 | P90-R |



FIRE RESISTANT SYSTEMS: Standard low structures

SYSTEM: RF24.00

Cable tray BS, high 60mm (2").
Mounted at roof using threaded rods and supports P41-3S and SCR



BASOR ELECTRIC S.A. certifies that:

* The system RF24.00 from BASOR ELECTRIC has been tested as a cable management system for maintaining electrical circuit integrity, in accordance with DIN 4102-12 standards (STN 92 0205 and CSN 73 0895), maintaining integrity until the end of the test and being approved as an E30, E60, and E90 system (P15-R, P30-R, P45-R, P60-R, P90-R).

* The assembly uses cable tray BASORTRAY BS with a maximum width of 300mm (12"), with the coating Stainless Steel i316, with supports SCR, threaded rods VRM8 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,0 m.




CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205




* CSN 73 0895

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY




| | |
|---------------------------|--------------|
| Distance between supports | 1,0 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 3 |
| High | 60 mm (2") |
| Width | 300 mm (12") |

| OPTIONAL MATERIALS |  |  |  |
|---------------------|---|---|---|
| Variable Set 4182CV | 1 u | 1 u | 1 u |
| Nut DIN6923 M8 | 2 u | 2 u | 2 u |
| Washer DIN6923 M6 | 2 u | 2 u | 2 u |

LIST OF MATERIALS AT EACH SUPPORT

| |  |  |  |
|----------------------|---|---|---|
| Support SCR | 1 u | 2 u | 3 u |
| Screw B1 M6x14 | 2 u | 4 u | 6 u |
| Head plate KA41-3S | 1 u | 1 u | 1 u |
| Screw B3 M10x20 | 4 u | 4 u | 4 u |
| Support P41-3S | 1 u | 1 u | 1 u |
| Screw DIN 933 M10x20 | 2 u | 4 u | 6 u |
| Nut DIN 6923 M10 | 2 u | 4 u | 6 u |
| Threaded Rod VRM6 | 1 u | 1 u | 1 u |
| Nut DIN 6923 M6 | 2 u | 4 u | 6 u |

LIST OF MATERIALS AT EACH TRAY

| |  |  |  |
|----------------|---|---|---|
| Basortray BS | 3 m | 6 m | 9 m |
| Union JUBS | 3 u | 6 u | 9 u |
| Screw B1 M6x14 | 12 u | 24 u | 36 u |

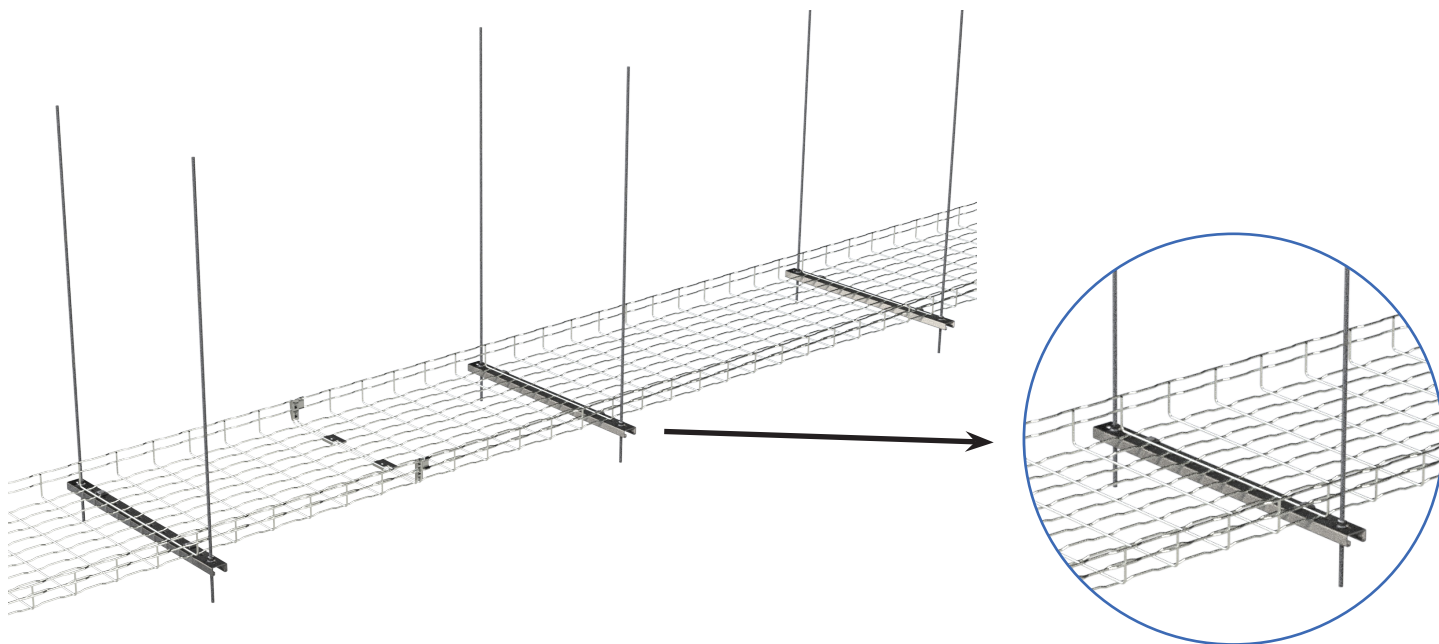
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | DIN 4102-12 | STN/ ČSN |
|--------------|-------------------------|--|----------|-------------|----------|
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 90 4x1,5 P90-R, PS90 B2ca s1d1 | Potencia | E60 | P60-R |
| PRAKAB | 4x50 mm ² | PRAFlaDur 90 4x50 P90-R, PS90 B2ca s1d1 | Potencia | E90 | P90-R |
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E60 | P60-R |
| PRAKAB | 4x50 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E30 | P45-R |
| PRAKAB | 1x2x0,8 mm ² | PRAFlaGuard F SSKFH-V180 P15-R - P90-R | Señal | E90 | P90-R |
| PRAKAB | 4x2X0,5mm ² | PRAFlaGuard FTP TCSPKFH-V180 P15-R - P90 | Señal | E90 | P90-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF25.00

Basket tray BF2R, high 65mm (2").
Mounted at roof using threaded rods and 41x21 profiles



BASOR ELECTRIC S.A. certifies that:

* The system **RF25.00** from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses basket tray **BASORFIL BF2R** with a maximum width of **300mm (12")**, with the coating **EZ/EZ1000**, with profiles **41x21**, threaded rods **VRM8** and has been tested for a Safe working load of **10 kg/m** and a maximum distance between supports of **1,2 m**.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,2 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 1 |
| High | 65mm (2") |
| Width | 300mm (12") |

LIST OF MATERIALS AT EACH SUPPORT

| | |
|-----------------------|-------|
| Profile P41 41x21x2,5 | 0,6 m |
| Staple GBF | 2 u |
| Screw B1 M6x20 | 2 u |
| Nut DIN6923 M6 | 4 u |
| Threaded Rod VRM8 | 2 u |

LIST OF MATERIALS AT EACH TRAY

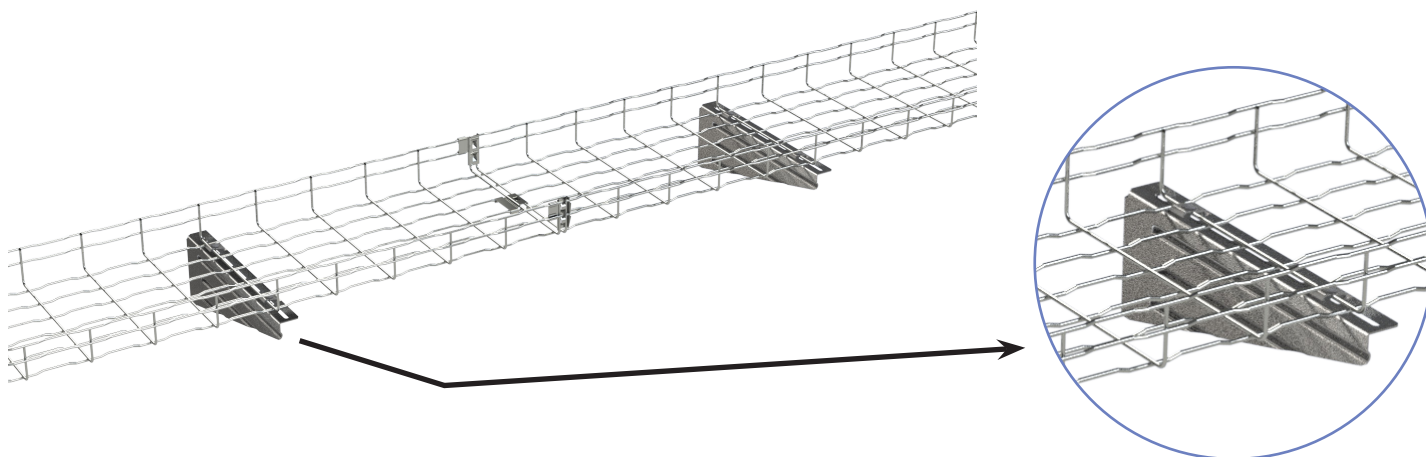
| | |
|---------------|-----|
| Basorfil BF2R | 3 m |
|---------------|-----|

CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | DIN 4102-12 | STN/ ČSN |
|--------------|-------------------------|--|----------|-------------|----------|
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 90 4x1,5 P90-R, PS90 B2ca s1d1 | Potencia | E30 | P45-R |
| PRAKAB | 4x50 mm ² | PRAFlaDur 90 4x50 P90-R, PS90 B2ca s1d1 | Potencia | E30 | P45-R |
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E60 | P60-R |
| PRAKAB | 4x50 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E30 | P45-R |
| PRAKAB | 1x2x0,8 mm ² | PRAFlaGuard F SSKFH-V180 P15-R - P90-R | Señal | E60 | P90-R |

Basket tray BF2R, high 65mm (2").

Mounted at wall using SCR supports without threaded rods reinforcement



BASOR ELECTRIC S.A. certifies that:

- * The system **RF28.00** from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.
- * The assembly uses basket tray **BASORFIL BF2R** with a maximum width of **300mm (12")**, with the coating **EZ/EZ1000**, with supports **SCR** and has been tested for a Safe working load of **10 kg/m** and a maximum distance between supports of **1,0 m**.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

- * DIN 4102-12
- * STN 92 0205
- * CSN 73 0895

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|--------------|
| Distance between supports | 1,0 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 1 |
| High | 65 mm (2") |
| Width | 300 mm (12") |

LIST OF MATERIALS AT EACH SUPPORT

| | |
|----------------|-----|
| Screw B1 M6x20 | 2 u |
| Staple GBF | 2 u |
| Nut DIN9021 M6 | 2 u |
| Support SCR | 1 u |

LIST OF MATERIALS AT EACH TRAY

| | |
|---------------|-----|
| Basorfil BF2R | 3 m |
|---------------|-----|

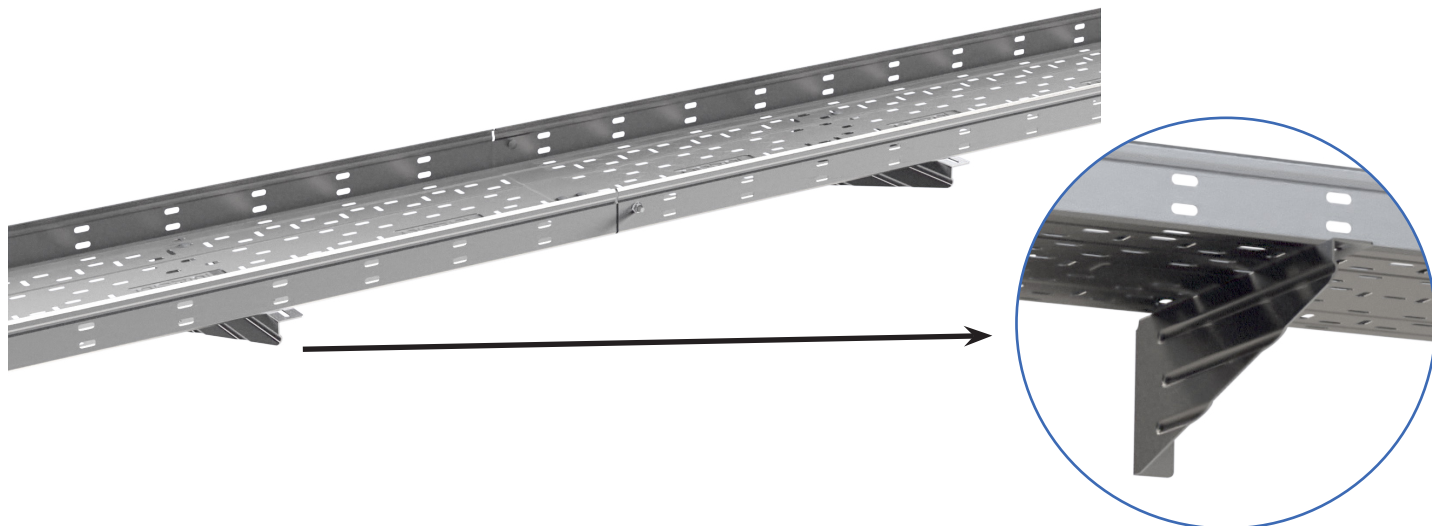
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | DIN 4102-12 | STN/ ČSN |
|--------------|-------------------------|--|----------|-------------|----------|
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E60 | P60-R |
| PRAKAB | 4x50 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | - | P15-R |
| PRAKAB | 1x2x0,8 mm ² | PRAFlaGuard F SSKFH-V180 P15-R - P90-R | Señal | E90 | P90-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF29.00

Cable tray ERE, high 60mm (2").
Mounted at wall using SCR supports



BASOR ELECTRIC S.A. certifies that:

* The system RF29.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable tray BASORTRAY ERE with a maximum width of 300mm (12"), with the coating PG/HDG, with supports SCR, has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,0 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 1,0 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 1 |
| High | 60mm (2") |
| Width | 300mm (12") |

LIST OF MATERIALS AT EACH SUPPORT

| | |
|----------------|-----|
| Screw B1 M6x14 | 2 u |
| Support SCR | 1 u |

LIST OF MATERIALS AT EACH TRAY

| | |
|----------------|-----|
| Basortray BS | 3 m |
| Screw B1 M6x14 | 4 u |

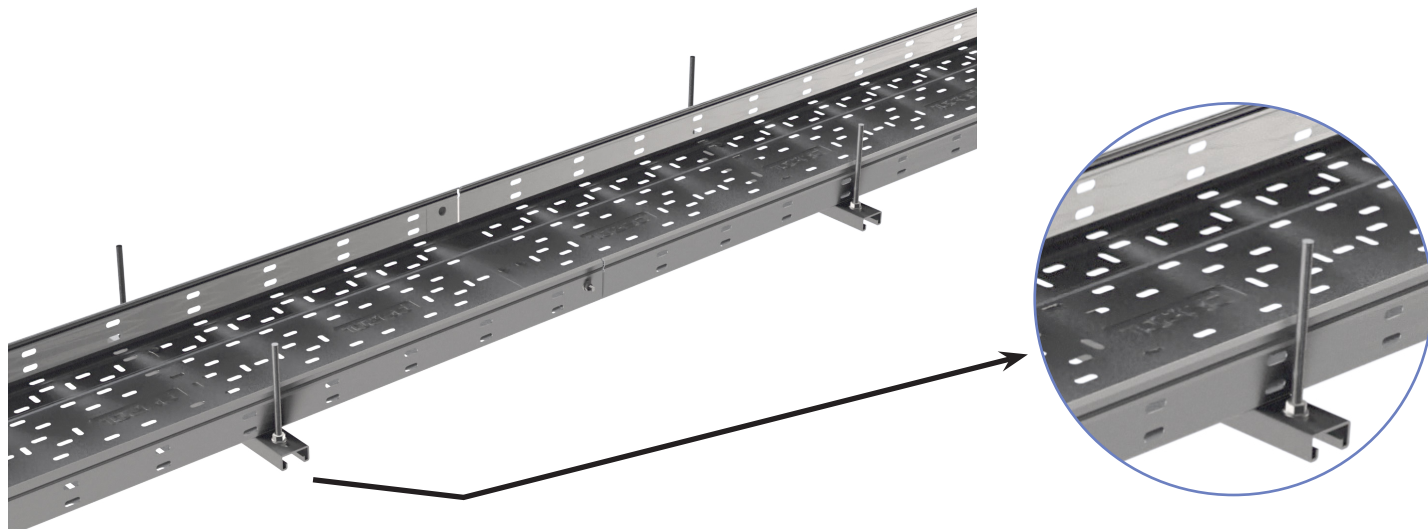
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | DIN 4102-12 | STN/ ČSN |
|--------------|-------------------------|--|----------|-------------|----------|
| PRAKAB | 4x50 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E60 | P60-R |
| PRAKAB | 4x1,5mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E30 | P30-R |
| PRAKAB | 1x2x0,8 mm ² | PRAFlaGuard F SSKFH-V180 P15-R - P90-R | Señal | E90 | P90-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF30.00

Cable tray ERE, high 60mm (2").
Mounted at wall using Threaded Rods and profiles 41x21



BASOR ELECTRIC S.A. certifies that:

* The system RF30.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses cable tray BASORTRAY ERE with a maximum width of 300mm (12"), with the coating PG/HDG, with profiles 41x21 and Threaded Rods VRM8 and has been tested for a Safe working load of 10 kg/m and a maximum distance between supports of 1,0 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

| PARÁMETROS TÉCNICOS PERMITIDOS EN EL MONTAJE | |
|--|-------------|
| Distance between supports | 1,0 m |
| Maximum load | 10 kg/m |
| Maximum number of highs | 1 |
| High | 60mm (2") |
| Width | 300mm (12") |

| LIST OF MATERIALS AT EACH SUPPORT | |
|-----------------------------------|-------|
| Screw B1 M6x14 | 2 u |
| Profile P41 41x21x2,5 | 0,4 m |
| Threaded Rod VRM8 | 2 u |
| Nut DIN6923 M8 | 4 u |
| Screw B1 M6x14 | 1 u |

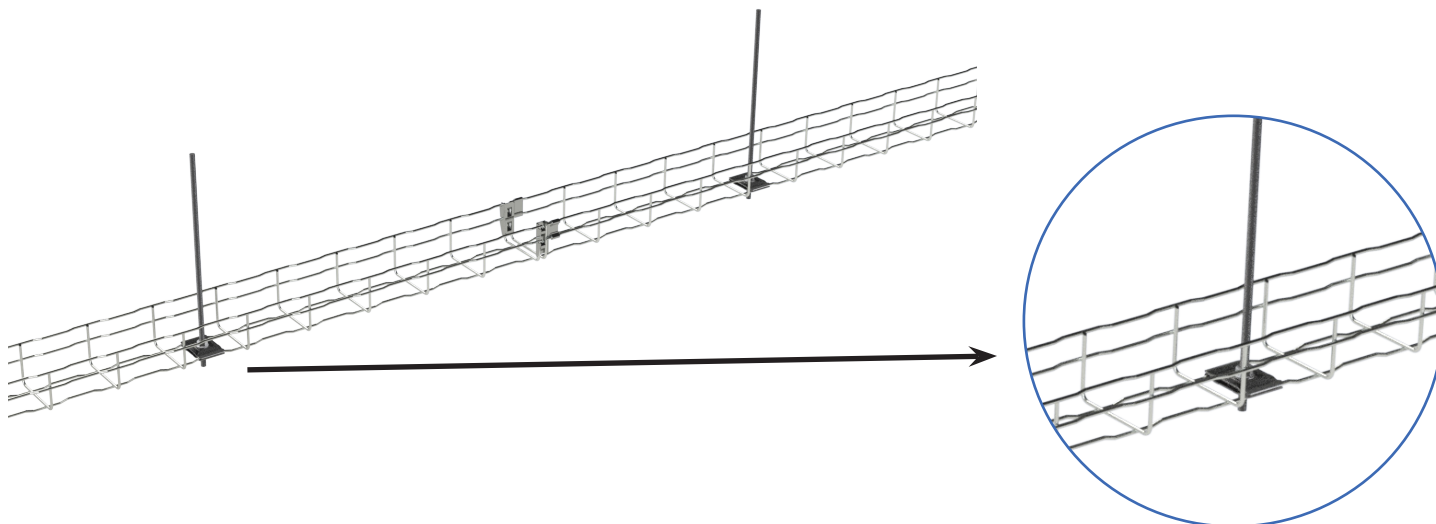
| LIST OF MATERIALS AT EACH TRAY | |
|--------------------------------|-----|
| Basortray ERE | 3 m |
| Screw B1 M6x14 | 3 u |

| CABLES FOR THE TEST | | | | | |
|---------------------|-------------------------|--|----------|-------------|----------|
| Manufacturer | Section | Cable reference | Type | DIN 4102-12 | STN/ ČSN |
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E60 | P60-R |
| PRAKAB | 4x50 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E60 | P60-R |
| PRAKAB | 1x2x0,8 mm ² | PRAFlaGuard F SSKFH-V180 P15-R - P90-R | Señal | E30 | P45-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF31.00

Basket tray BF2R, high 65mm (2").
Mounted at wall using threaded rods and SSC profiles



BASOR ELECTRIC S.A. certifies that:

* The system RF31.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses basket tray BASORFIL BF2R with a maximum width of 100mm (4"), with the coating EZ/EZ1000, with supports SSC, threaded rods VRM8 and has been tested for a Safe working load of 5 kg/m and a maximum distance between supports of 1,0 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|------------|
| Distance between supports | 1,0 m |
| Maximum load | 5 kg/m |
| Maximum number of highs | 1 |
| High | 65mm (2") |
| Width | 100mm (4") |

LIST OF MATERIALS AT EACH SUPPORT

| | |
|-------------------|-----|
| Support SSC | 2 u |
| Nut DIN6923 M8 | 2 u |
| Threaded Rod VRM8 | 1 u |

LIST OF MATERIALS AT EACH TRAY

| | |
|---------------|-----|
| Basorfil BF2R | 3 m |
|---------------|-----|

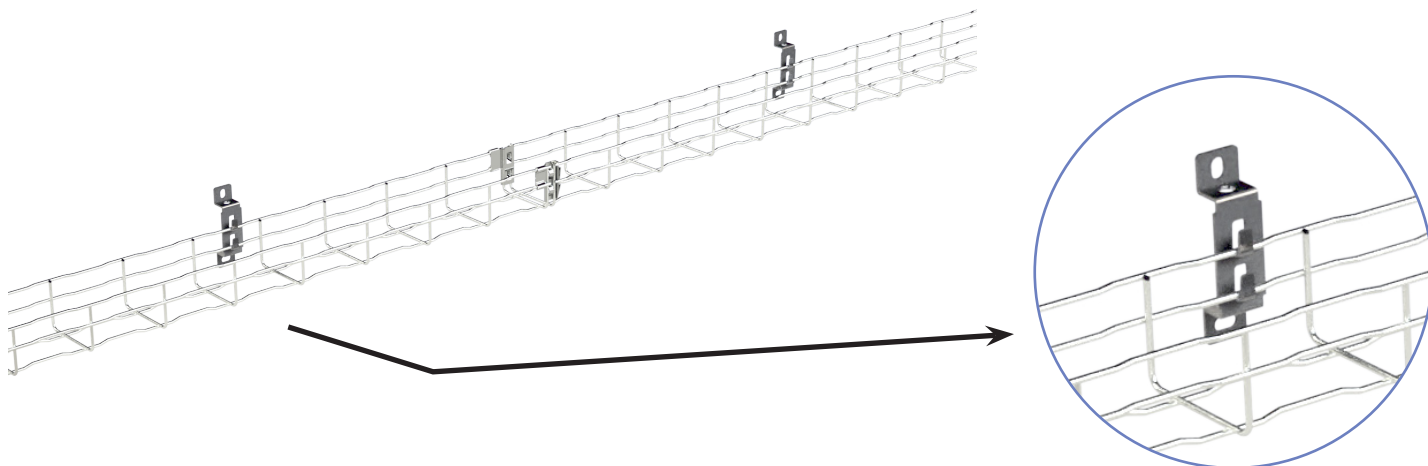
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | DIN 4102-12 | STN/ ČSN |
|--------------|-------------------------|--|----------|-------------|----------|
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E60 | P60-R |
| PRAKAB | 4x16 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E60 | P60-R |
| PRAKAB | 1x2x0,8 mm ² | PRAFlaGuard F SSKFH-V180 P15-R - P90-R | Señal | E60 | P90-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF32.00

Basket tray BF2R, high 65mm (2").
Mounted at wall using simple lateral suspension SLS



BASOR ELECTRIC S.A. certifies that:

* The system RF32.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.

* The assembly uses basket tray BASORFIL BF2R with a maximum width of 100mm (4"), with the coating EZ/EZ1000, with simple lateral suspension SLS and has been tested for a Safe working load of 5 kg/m and a maximum distance between supports of 1,0 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

* DIN 4102-12 * STN 92 0205

* CSN 73 0895

LIST OF MATERIALS AT EACH SUPPORT

Support SLS



1 u

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

Distance between supports

1,0 m

Maximum load

5 kg/m

Maximum number of highs

1

High

65mm (2")

Width

100mm (4")

LIST OF MATERIALS AT EACH TRAY

Basorfil BF2R



3 m

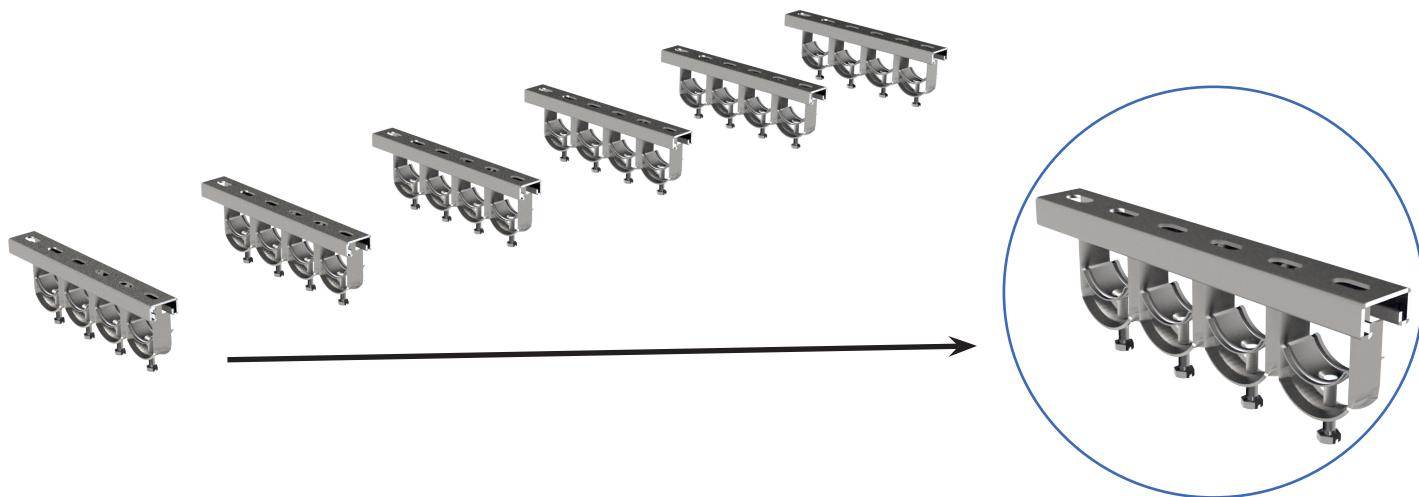
CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | DIN 4102-12 | STN/ ČSN |
|--------------|-------------------------|--|----------|-------------|----------|
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E60 | P60-R |
| PRAKAB | 4x16 mm ² | PRAFlaDur 1-CSKH- V180 P15-R - P60-R | Potencia | E60 | P60-R |
| PRAKAB | 1x2x0,8 mm ² | PRAFlaGuard F SSKFH-V180 P15-R - P90-R | Señal | E90 | P90-R |
| PRAKAB | 4x2x0,5 mm ² | PRAFlaGuard FTP TCSPKFH-V180 P15-R - P90 | Señal | E90 | P90-R |



FIRE RESISTANT SYSTEMS: Standard low structures SYSTEM: RF33.00

Clamps SE41 to fix cables.
Mounted at roof using a support P41



BASOR ELECTRIC S.A. certifies that:

- * The system RF33.00 from BASOR ELECTRIC has been tested as a cable management system for electrical maintenance functions according to the standards listed below, keeping the integrity until the end of the test being approved as a system E30, E60, E90.
- * The assembly uses fixing metal clamps BASORFIX SE41 with a correct diameter for each cable, with profiles 41x21 of 300mm long fixed at roof and has been tested with and a maximum distance between supports of 0,3 m.

CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO:

- * DIN 4102-12 * STN 92 0205
- * CSN 73 0895

TECHNICAL PARAMETERS ALLOWED IN THE ASSEMBLY

| | |
|---------------------------|-------------|
| Distance between supports | 0,3 m |
| Width | 300mm (12") |

LIST OF MATERIALS AT EACH SUPPORT

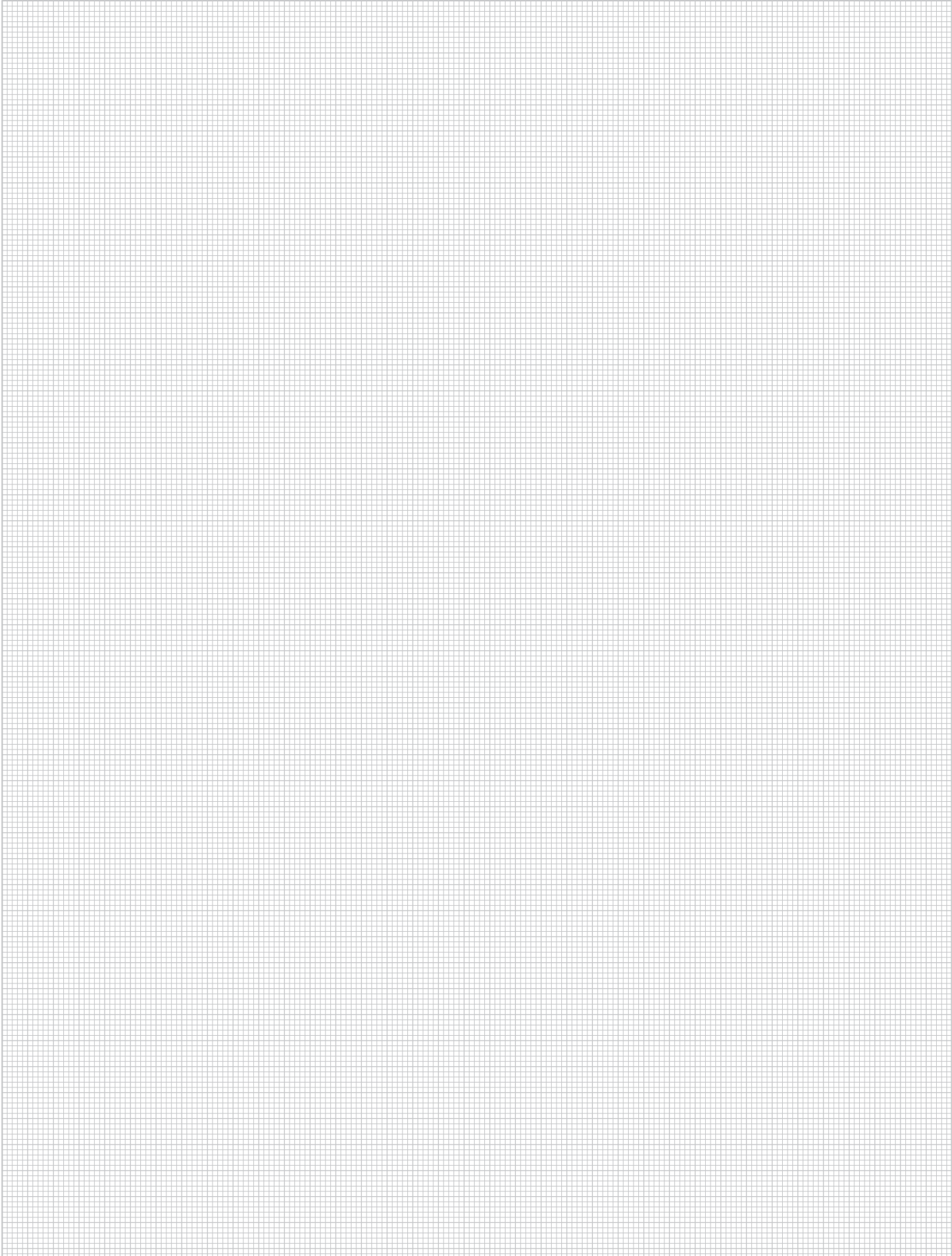
| | |
|-----------------------|-------|
| Support P41 41x21x2,5 | 0,3 m |
|-----------------------|-------|



CABLES FOR THE TEST

| Manufacturer | Section | Cable reference | Type | DIN 4102-12 | STN/ ČSN |
|--------------|-------------------------|--|----------|-------------|----------|
| PRAKAB | 4x1,5 mm ² | PRAFlaDur 90 P90-R, PS90 B2ca s1d1 | Potencia | E90 | P90-R |
| PRAKAB | 4x50 mm ² | PRAFlaDur 90 P90-R, PS90 B2ca s1d1 | Potencia | E90 | P90-R |
| PRAKAB | 1x2x0,8 mm ² | PRAFlaGuard F SSKFH-V180 P15-R - P90-R | Señal | - | P15-R |

FIRE RESISTANT SYSTEMS
NOTES





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