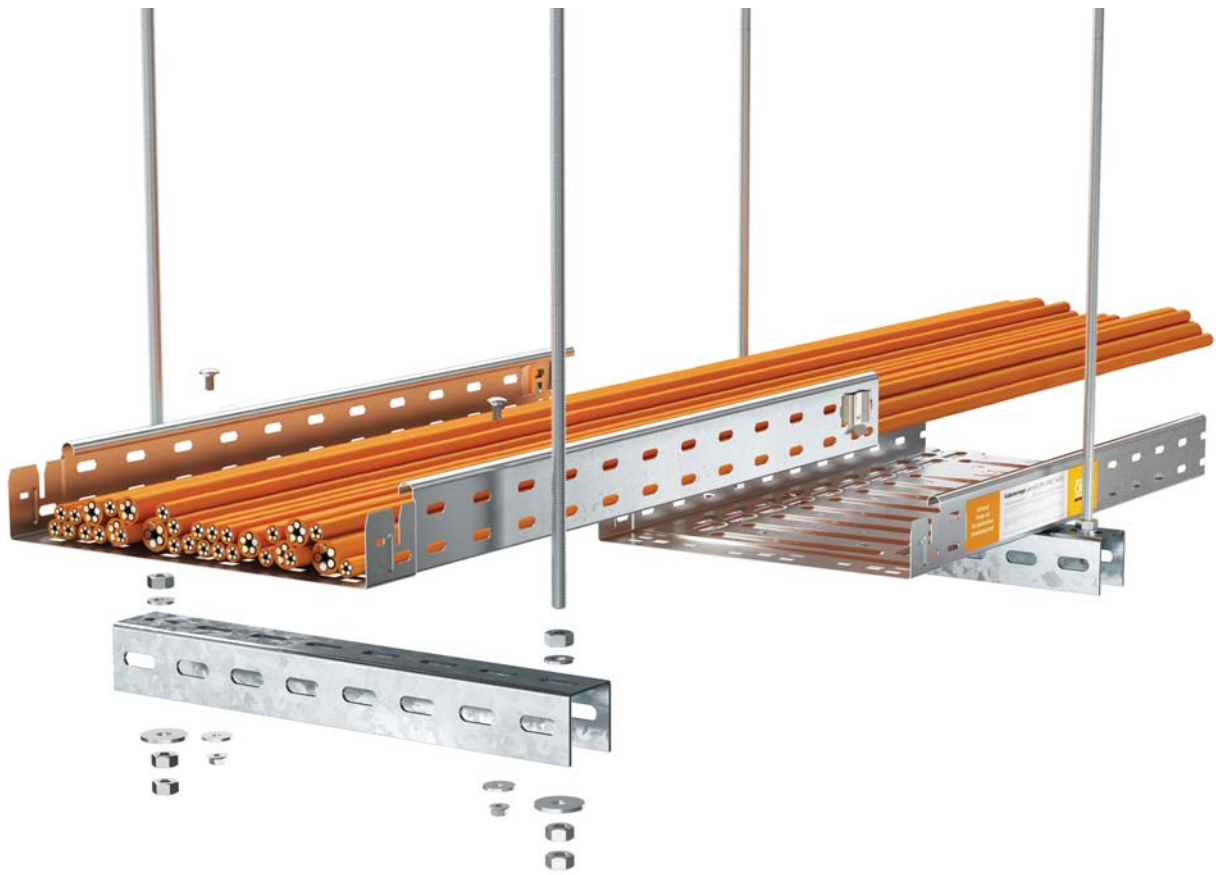




Certificates



Maintaining electrical functionality

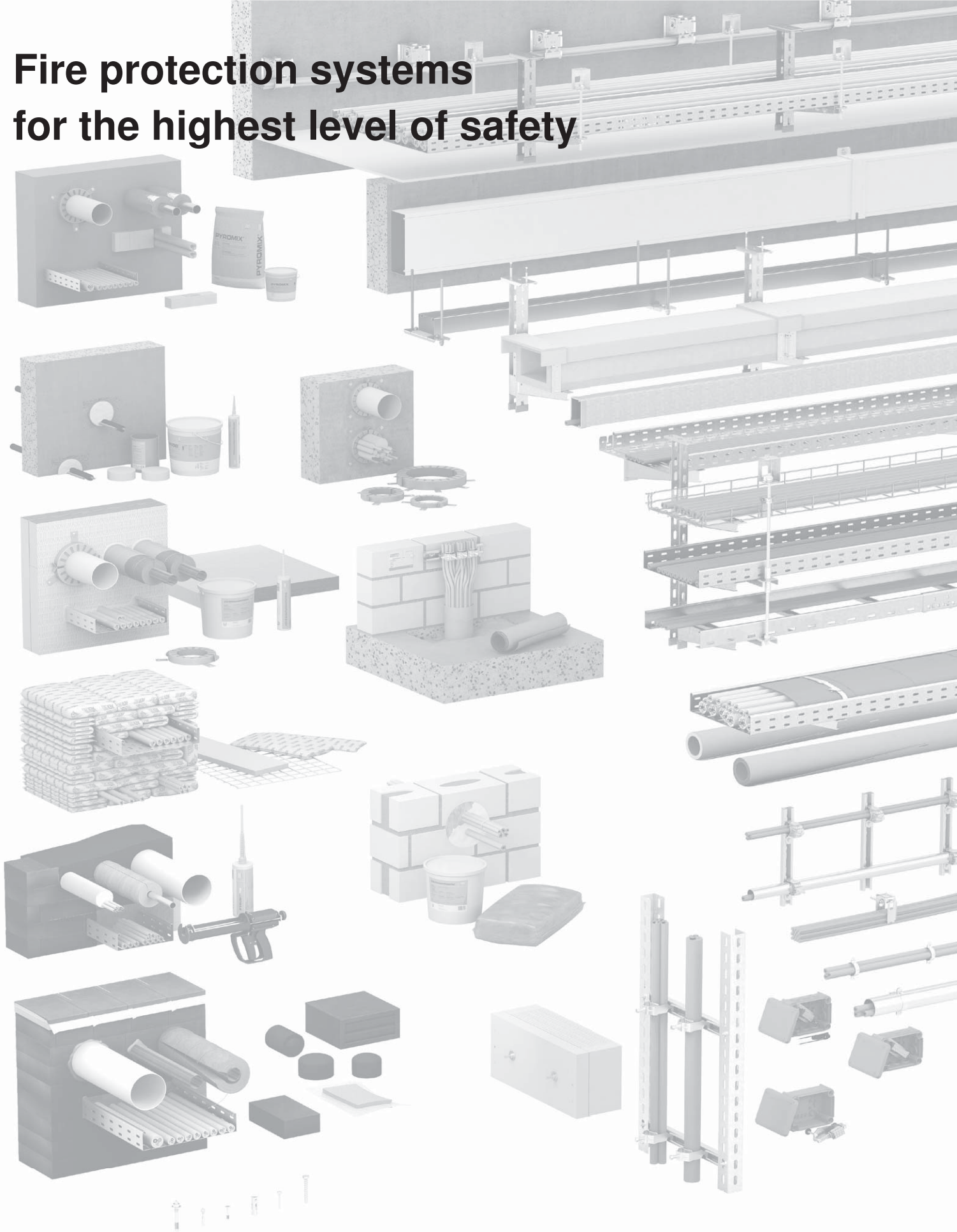
Cable tray RKS-Magic® - Pendulum suspension with U-profiles

General building authority test certificate no. P-MPA-E-25-004, valid until 16.07.2030

This is a translation of the original German version, which has neither been checked nor approved by the NRW Materials Testing Office.

The original German document is valid only.

Fire protection systems for the highest level of safety



Be it in a residential building or an industrial complex – OBO has the appropriate solution for fireproof electrical installations. Our tested and certified fire protection systems cover all the relevant fire protection guidelines and provide you with an electrical installation that really serves its purpose. We will be happy to provide you with more details – on our website or personally.

GENERAL BUILDING AUTHORITY TEST CERTIFICATE

Document no.: P-MPA-E-25-004

Object on test: Cable systems with integrated function maintenance of function maintenance class "E30", "E60" and "E90" according to DIN 4102-12 1998-11 according to the VVTB of the state of North Rhine-Westphalia

Client: OBO BETTERMANN Produktion Deutschland GmbH & Co. KG
Hüingser Ring 52
D-58710 Menden

Date of issue: 17.07.2025

Valid from: 17.07.2025

Valid until: 16.07.2030

This general construction test report means that the above-named construction type can be used in accordance with the state construction regulations.

This general construction test certificate has 7 pages incl. cover sheet and 7 annexes.

This is a translation of the original German version, which has neither been checked nor approved by the NRW Materials Testing Office. Only the origin German document is valid.

1 Object on test and scope

1.1 Object on test

1.1.1

The general building authority test certificate applies to the manufacture and use of the cable system with integrated function maintenance as a construction type. Depending on the cable construction types, the cable system with integrated function maintenance guarantees classification in the function maintenance classes "E30", "E60" and "E90" according to DIN 4102-12 (Edition 11/1998).

1.1.2

The cable system with integrated function maintenance must consist of the cable construction types specified in section 2.1 and cable support structure according to section 2.2.

1.2. Scope

1.2.1

The application is limited to cables with rated voltages ≤ 1 kV. When planning cable systems with integrated function maintenance, possible function restriction of the cable, as a result of increases in thermal resistance, must be considered.

1.2.2

In the case of sloping or vertical cable systems (e.g. rising section or individual routing) with integrated function maintenance, the cables must be supported in the vertical-horizontal transition area, in order to prevent cables slipping or kinking on edges.

1.2.3

A combination of different routing types is permitted, provided that the same function maintenance classes exist.

1.2.4

If other requirements are made, then these must be proved separately.

2 Condition for implementation

The cable system must be constructed according to the following detailed information.

2.1 Cable construction types

Only the following cable construction types may be used in accordance with table 1 and a valid VDE approbation: Kabelwerk Eupen AG, Malmedyer Straße 9, Belgium-4700 Eupen and TT-Kabeli d.o.o., Knespolje bb, 88220 Siroki Brijek, Bosnia and Herzegovina. The actual design of the cable construction types is stored at the Materials' Testing Office (MPA) of North Rhine-Westphalia.

2.2 Cable management system

The cable management system must be made of steel (minimum steel quality: S 235). The cable support structures or clips may be coated with plastics or fire protection paint up to a layer thickness of 1.5 mm.

Further general conditions must be observed:

Components subject to tension must be dimensioned so that their calculated tension does not exceed 9 N/mm² (classifications "E30" and 'E60') or 6 N/mm² (classification "E90") in accordance with DIN 4102-4:2025-06, Table 85.

Anchors must comply with the specifications of valid general building approvals issued by Deutsches Institut für Bautechnik, Berlin, and must also be installed at twice the depth specified in the approval notice – but at least 6 cm deep – unless otherwise described in the approval. The calculated tensile load per anchor must not exceed 500 N, see DIN 4102-4:2025-06, Section 11.2.6.3 (6). Alternatively, anchors may be used whose fire protection suitability has been verified by a general building authority approval, a European technical approval or assessment, or a general building authority test certificate. They must be installed in accordance with the specifications in the valid usability certificates.

This general building authority test certificate shall only be valid if:

- The cables are fed out without connecting elements.
- It is ensured that the function maintenance class of cable systems with integrated function maintenance is not negatively affected by surrounding construction parts.

2.3 Other conditions

In the case of mixed cable assignment on cable support structures, "cables with integrated function maintenance" and cables (e.g., PVC cables) that are not subject to fire protection requirements can be laid together. The cables must then be laid in such a way that overlapping and mutual interference are prevented. The standards applicable to the planning and laying of cable systems with integrated function maintenance remain unaffected by this.

2.4 Classification

The cable systems are assigned to the function maintenance classes according to the following table.

Table 1

1. Cable trays manufactured by OBO Bettermann Produktion Deutschland GmbH & Co. KG			
Ceiling mounting, one and two layer with threaded rod suspension on both sides			
1.1 Cable tray RKSM 610 on cross-section US 3 20 (a ≤ 1500 mm) (b = 100 mm) (g ≤ 15 kg/m)			
1.2 Cable tray RKSM 620 on cross-section US 3 30 (a ≤ 1500 mm) (b = 200 mm) (g ≤ 20 kg/m)			
1.3 Cable tray RKSM 630 on cross-section US 5 40 (a ≤ 1500 mm) (b = 300 mm) (g ≤ 20 kg/m)			
1.4 Cable tray RKSM 640 on cross-section US 5 50 (a ≤ 1500 mm) (b = 400 mm) (g ≤ 20 kg/m)			
Cable construction type: Manufacturer's designation EUPEN EUCASAFE	Installation type no.:	Dimension: wire count x cross-section [n x mm ²] or wire count x 2x diameter [n x 2 mm]	Classification: Acc. to DIN 4102-12 1998-11
(N)HXH FE180 E30-E60 VDE reg. no. 8512 and 7581	1.3	n x ≥ 1.5	E30
	1.3; 1.4	n x 50	E30, E60
	1.2	n x 50	E30, E60, E90
(N)HXCH FE180 E30 VDE reg. no. 7581	1.1	n x ≥ 1.5/1.5	E30
	1.3	n x 50	E30
	1.2; 1.4	n x 50	E30, E60
(N)HXH FE180 E90 VDE reg. no. 8566 and 8513	1.1, 1.4	n x ≥ 1,5	E30, E60
	1.2	n x ≥ 1,5	E30
	1.2, 1.3, 1.4	n x 50	E30, E60, E90
NHXCH FE180 E90 VDE reg. no. 8513	1.1; 1.4	n x ≥ 1,5/1,5	E30, E60
	1.1; 1.2; 1.3; 1.4	n x 50/25	E30, E60, E90
	1.2	n x ≥ 1,5/1,5	E30
JE-H(St)H FE180 E30 VDE reg. no. 7510	1.1; 1.2; 1.3; 1.4	n x 2 x 0.8	E30
JE-H(St)H FE180 E90 VDE reg. no. 6563	1.1; 1.2; 1.3; 1.4	n x 2 x 0.8	E30
	1.2	n x 2 x 0.8	E30, E60

Table 1 (Continuation)

1. Cable trays manufactured by OBO Bettermann Produktion Deutschland GmbH & Co. KG			
Ceiling mouting, one and two layer with threaded rod suspension on both sides			
1.1 Cable tray RKSM 610 on cross-section US 3 20 (a ≤ 1500 mm) (b = 100 mm) (g ≤ 15 kg/m)			
1.2 Cable tray RKSM 620 on cross-section US 3 30 (a ≤ 1500 mm) (b = 200 mm) (g ≤ 20 kg/m)			
1.3 Cable tray RKSM 630 on cross-section US 5 40 (a ≤ 1500 mm) (b = 300 mm) (g ≤ 20 kg/m)			
1.4 Cable tray RKSM 640 on cross-section US 5 50 (a ≤ 1500 mm) (b = 400 mm) (g ≤ 20 kg/m)			
Cable construction type: Manufacturer's designation TT - Kabeli	Installation type no.:	Dimension: wire count x cross-section [n x mm ²] or wire count x 2x diameter [n x 2 mm]	Classification: Acc. to DIN 4102-12 1998-11
(N)HXH FE180 E90 VDE reg. no. K031	1.1	n x ≥ 1.5	E30, E60, E90
	1.2	n x ≥ 1.5	E30, E60
	1.2	n x 50	E90

2.5 Labeling

2.5.1 Cable construction types

The cable must be labelled according to the VDE specifications.

2.5.2 Cable management system with integrated function maintenance

Each cable management system must be permanently marked with a sign or sticker that must be fastened to the cable support structure and contain the following information:

- Name of the company that manufactured the cable system
- Cable system with integrated function maintenance "E90" or "E60" or "E30" according to DIN 4102-12: 1998-11
- General construction test certificate no. P-MPA-E-25-004, dated 17th July 2025, MPA Erwitte
- Owner of the general construction test certificate OBO Bettermann Produktion Deutschland GmbH & Co. KG, Hüingser Ring 52, D-58710 Menden
- Year of manufacture

3 Proof of conformity

The construction type listed in this general construction test report requires a proof of conformity according to the specifications of VVTB of the state of North Rhine-Westphalia (serial no.: C.4.9). The manufacturer (company) must provide a declaration of conformity.

The company that manufactures the cable system must provide the customer with a written declaration of conformity, through which it is certified that the produced cable system corresponds to the specifications of the general construction test report.

4 Basis legal principles

This general construction test report is issued according to § 17 of the construction law of the state of North Rhine-Westphalia (BauO NW), dated 21st July 2018, last changed on 31st October 2023, in combination with the VVTB of the state of North-Rhine Westphalia. The state construction regulations of the other German federal states contain appropriate basic legal principles.

5 Legal information

An appeal against this decision may be lodged with the Administrative Court of Arnsberg, Jägerstraße 1, 59821 Arnsberg, within one month of notification. The complaint must identify the plaintiff, the defendant, and the subject matter of the claim. It must contain a specific request. The facts and evidence supporting the request must be stated, and the original or copy of the contested decision must be attached. Copies of the complaint and all other pleadings must be attached for the other parties involved.

In addition, it is also possible to file the lawsuit electronically in accordance with the Regulation on Electronic Legal Transactions at Administrative Courts and Fiscal Courts in the state of North Rhine-Westphalia (Elektronische Rechtsverkehrsverordnung Verwaltungs- und Finanzgerichte ERVVO VG/FG dated 7th November 2012).

Please note that ordinary e-mails are not recognized in electronic legal transactions. Certain technical and formal requirements must be met in order to file a lawsuit electronically. You can find more information about these requirements at www.justiz.de.

6 General Information

The general construction test certificate proves the usability of the building product/applicability of the design in accordance with state building regulations.

The general construction test certificate does not replace the authorisations, approvals and certifications that are legally required in order to carry out construction projects.

The general construction test certificate is issued without prejudice to the rights of third parties, in particular private industrial property rights.

Notwithstanding any further conditions in the special or further conditions, manufacturers and distributors of the construction product / construction type must provide users of the construction product / construction type with copies of the general construction test certificate and point out that the general construction test certificate must be available at the place of use. Copies of the general construction test certificate must be made available to the authorities involved upon request.

The general construction test certificate may only be reproduced in full length. Partial publication shall require the approval of the testing office. Text and drawings from advertising brochures may not contradict the general construction test report. Translations of the general construction test certificate must contain the following note: "Translation of the original German version, not verified by the NRW Materials' Testing Office."

The general construction test certificate is revocable. The conditions of the general construction test certificate can be supplemented or changed at a later date, especially if this is required by new technical developments.

The test reports for this general construction test certificate have been communicated to MPA NRW by the client.

Erwitte, July 27,2025

p.p.

Diekmann
Head of the Testing Office

Markwart
Responsible Officer

Sample for

Declaration of Compliance

- Name and address of the company that designed the cable system with integrated functional maintenance
- Construction site or building:
- Date of production:
- Required functional integrity class of the cable system (s)
with integrated functional maintenance: „E ...“

It is hereby confirmed that the cable system (s) with integrated functional maintenance of the functional integrity class "E ..." was installed professionally with regard to all details and in compliance with all provisions of the „allgemeines bauaufsichtliches Prüfzeugnis“ of MPA NRW No. P-MPA-E-25-004 dated 17.07.2025 was installed.

For construction products or individual parts (e.g. cable types) not manufactured by the signatory himself, this is also hereby confirmed because of

- the existing marking of the parts in accordance with the provisions of the „allgemeines bauaufsichtliches Prüfzeugnis“ *)
- own controls *)
- corresponding written confirmations from the manufacturers of the construction products or parts, which the signatory has kept on file *)

Place, date

Stamp and signature

(This certificate must be handed over to the building owner to be passed on to the responsible „Bauaufsichtsbehörde“ (building control authority).

*) cross out what does not apply

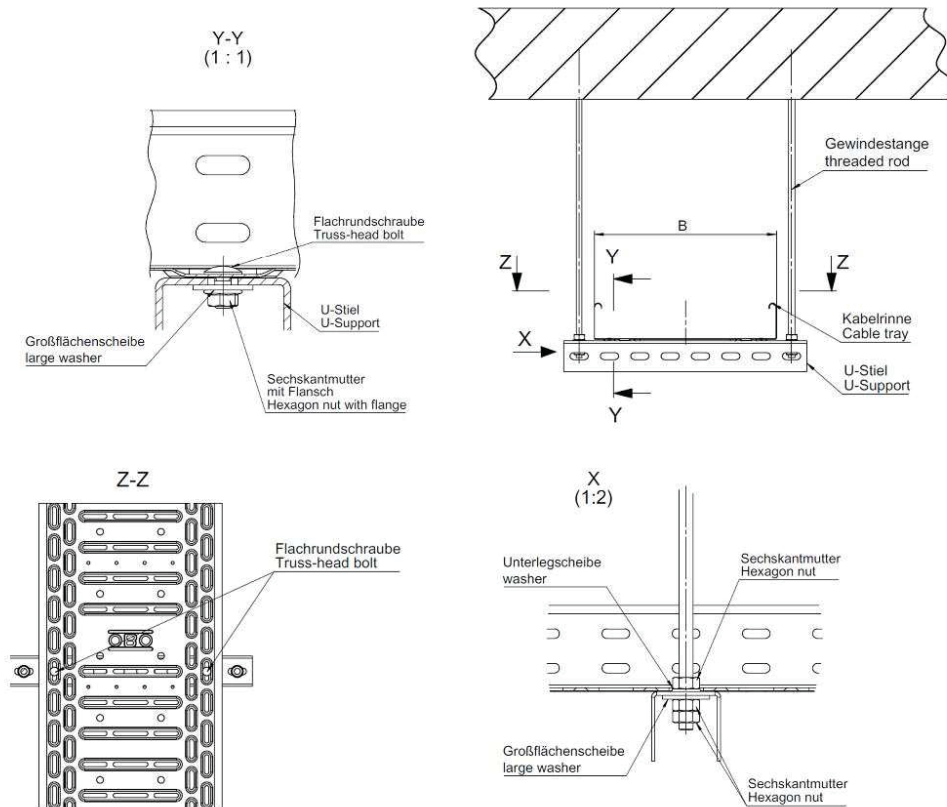
Kabelrinne RKSM

Cable tray RKSM



Deckenmontage mit Pendelabhängung einlagig

Ceiling installation with pendulum suspension single layer



Kabelrinne <i>Cable tray</i> RKSM B [mm]	U-Stiel <i>U-Support</i>	Gewindestange <i>Threaded rod</i>	Kabellast <i>cable load</i> [kg/m]	Stützabstand <i>Span</i> [m]
100	US 3 20	M10	15	max. 1,5
200	US 3 30		20	
300	US 5 40			
400	US 5 50			

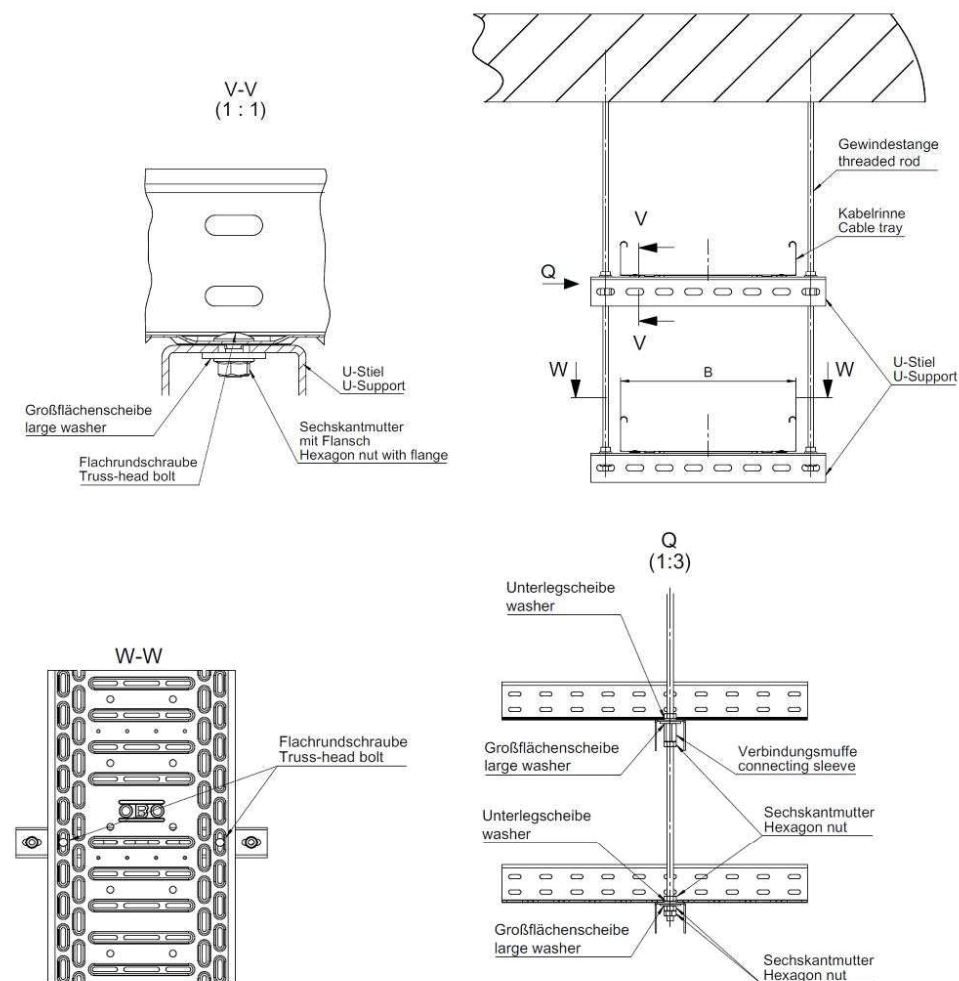
Kabelrinne RKSM

Cable tray RKSM



Deckenmontage mit Pendelabhängung zweilagig

Ceiling installation with pendulum suspension double layer



Kabelrinne <i>Cable tray</i> RKSM B [mm]	U-Stiel <i>U-Support</i>	Gewindestange <i>Threaded rod</i>	Kabellast <i>cable load</i> [kg/m]	Stützabstand <i>Span</i> [m]
100	US 3 20	M10	15	max. 1,5
200	US 3 30		20	
300	US 5 40			
400	US 5 50			

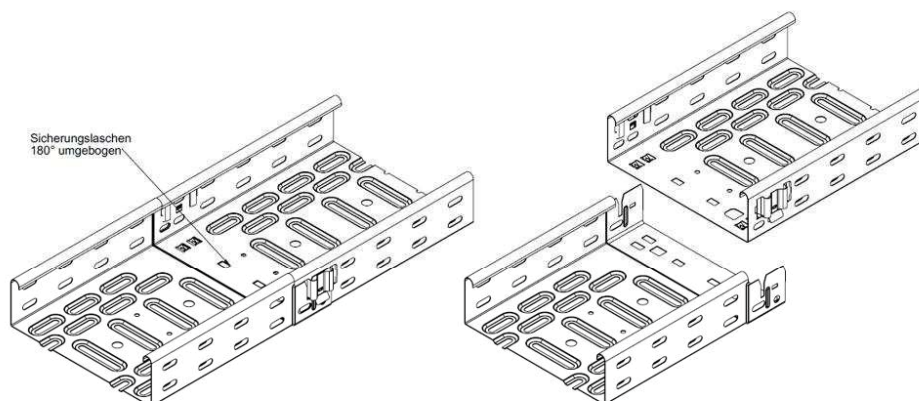
Kabelrinne RKSM

Cable tray RKSM



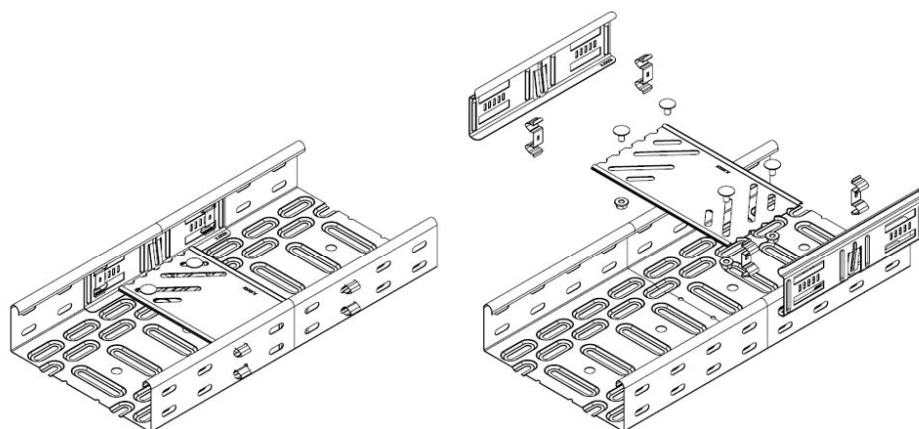
Stoßstellenverbindung mit Schnellbefestigungssystem Magic®

Joint connection with quick fastening system Magic®



Stoßstellenverbindung mit Längsverbinder-Set KTSMV

Joint connection with straight connector set KTSMV



Kabelrinne RKSM

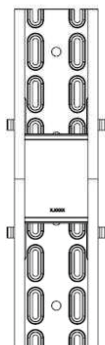
Cable tray RKSM



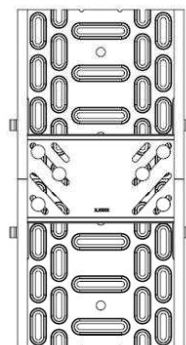
Stoßstellenverbindung mit Längsverbinder-Set KTSMV

Joint connection with straight connector set KTSMV

Breite 100 mm
Width

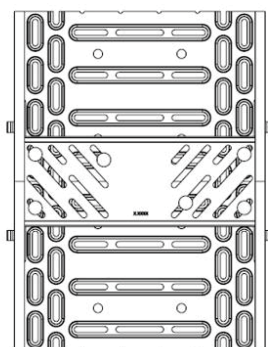


Breite 200 mm
Width



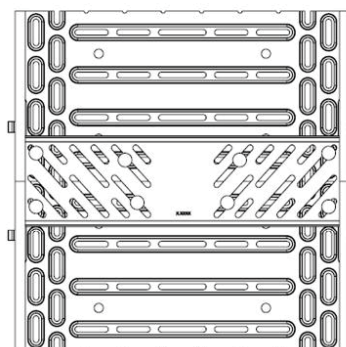
6 x FRSB 6x12 F

Breite 300 mm
Width



6 x FRSB 6x12 F

Breite 400 mm
Width



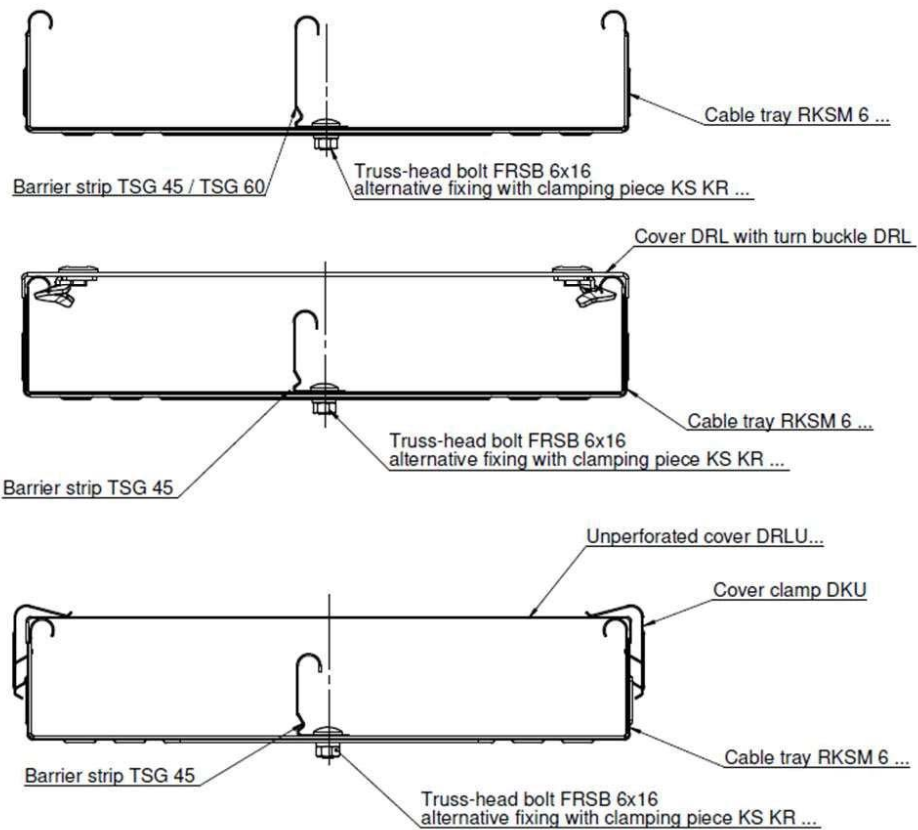
8 x FRSB 6x12 F

Kabelrinne RKSM

Cable tray RKSM



Barrier strip and lid mounting



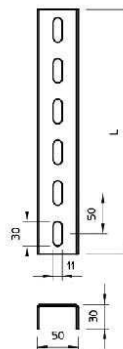
Kabelrinne RKSM

Cable tray RKSM



US 3 Stiel

US 3 Support



US 3 Stiel US 3 Support	L [mm]
US 3 20 FS	200
US 3 30 FS	300

US 5 Stiel

US 5 Support



US 5 Stiel US 5 Support	L [mm]
US 5 40 FS	400
US 5 50 FS	500

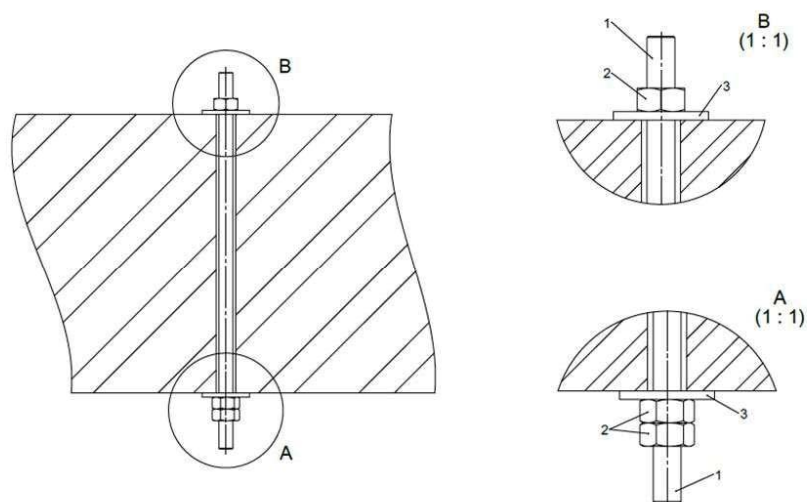
Kabelrinne RKSM

Cable tray RKSM



Durchsteckmontage

Push-through mounting



Pos	Benennung Designation	Werkstoff Material
1	Gewindestange / Threaded rod	Stahl / Steel
2	Sechskantmutter / Hexagon nut	
3	Unterlegscheibe groß / Washer large	





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Building Connections

