

safe inspiring green.

CATALOGUE

Concrete installation

Table of Contents

Concrete Installation

	About us	2-5
	Planning help Efficient planning and construction	
	Efficient planning and construction	0-7
	References	8
	Prefabricated parts	g
	IBT Precon equipment box, equipment junction box IBT Precon P71 DATA IBT Ceiling Boxes for prefabricated ceilings Typical applications for IBT products from the production range	18-19
	Installation enclosure	24-33
	In-place concrete Reinforcement box U71 equipment box, equipment junction box Ceiling boxes Mounting box. Drillbox	38-44 46-50 51-64
	Wall and ceiling transitions UVA, KOT, ROP, ROK, DAL	
	Export solutions	74-81
	Accessories	82-90
>	Technical information	91-109
	Index of Order numbers sorted by order numbers	110
	Index of Order numbers sorted by product name	112
	General Terms and Conditions	114

Additional product catalogues are available free of charge at:

www.spelsberg.com/service/info-request



Electric installation



Switchgear and control engineering

Illustrations are not binding. This applies in particular to the design, size, and colour of equipment. We reserve the right to amend prices, technology and design. Mistakes in this catalogue are due to printing errors and no right to reductions or similar may be derived from them.

Spelsberg

Schalksmühle



Schalksmühle - Where everything began!

Spelsberg products are provided with brand quality that have been developed, made and tested in Germany. In addition to our Headquarters in Schalksmühle, we also have another production location in Buttstädt / Thuringia. Spelsberg also has a global presence with a huge network of own subsidiaries, liaison offices and exclusive distributors.

In the town where the first insulation pipes were already being developed and manufactured since 1904, Spelsberg is still at home there today. The company grew constantly and kept on expanding its production facilities until they reached their capacity limits in the centre of the town. This is why Spelsberg moved to an industrial area in the 1990's where they completely rebuilt the administration and production.

In doing so, all specialist fields and departments worked closely and networked in an interdisciplinary way. Being sales, purchasing, prototype building or laboratory – in the main building you find all competencies in the close proximity. This inspires innovation and creates short response times.

Spelsberg

Factory Buttstädt



Buttstädt - The plastics centre

The more than 100 million plastic parts that are produced at Spelsberg each year do not only originate from Schalksmühle. Since the 1990's, there is also a production location in Buttstädt Thuringia where high-quality enclosures are manufactured in series production.

Injection moulding, sealing foaming or material colouring – in Buttstädt a modern machinery park and a high stock of tools ensures a diverse range of high qualitative products. Modern methods and simulation tools help to continuously optimise the processes and with new constructions, achieve the best results from the very beginning.



Production

IBT Boxes



Production of IBT boxes in Buttstädt

For concrete construction, with the IBT and IBTronic system, Spelsberg offers particularly robust enclosures. IBT comprises a wide range of classic universal, transition and connecting boxes. As a supplement to this, the IBTronic system provides space for high-quality electronics.

Equipment from LED lamps to loudspeakers and control gear up to KNX actuators can be elegantly integrated into a concrete ceiling or wall. Different enclosure shapes are available which are outstandingly suitable for prefabricated construction and in-place concrete.

Thanks to the stable support spars made of metal, the enclosures can be safely inserted in horizontal or vertical formworks and during casting, keep their correct position, even when exposed to extreme concrete pressure.



The particularly high tightness is achieved additionally through a patented membrane system. After the pipe is inserted, the membrane gets pulled back in the original position and offers strain relief and sealing in one. Accessories like special grommets are no longer needed here.

IBTronic also has many advantages for the factory production of concrete parts: Thus, a smooth front can be stuck easily on the formwork and the high thermal stability of the material guarantees that the enclosure maintains its shape even upon reheating of the formwork table. The conduit stopper has already been integrated so that an empty conduit can be moved to the correct position precisely and quickly without any further accessories.

Modern weighing workplace, communication between ERP system and counting scale

Planning help

Efficient planning and construction



www.spelsberg.com/service/planninginformation

Everyone who deals with large and complex planning projects knows from experience the importance of carefully prepared planning data. These data form the basis for a good planning outcome that satisfies all parties, and therefore contributes further down the line to the smooth execution of the construction project.

In order to give customers and partners in all work phases of the planning project the best possible support, Spelsberg provides all planning-related information drawn together in one place.

Once you have successfully registered for mySPELSBERG you will have access to all planning data and be able to download these directly from the product page. Alternatively, you can also use our watchlists function for combined download of all necessary data for multiple products and forward the watch list to colleagues or partners.



Successful planning - thanks to additional certifications

The Spelsberg product series are additionally characterised by expert opinions. In the segment concrete construction, the IBT products are certified in the area of fire protection. The official documents can be downloaded as PDF from www.spelsberg.com

Tested noise protection

Optimum noise protection is still a challenge with the planning and implementation of buildings.

The Spelsberg IBT products are therefore tested for noise protection with regard to airborne sound insulation according to DIN4109.

Thus, in the run-up, Spelsberg already offers the decisive and required planning safety - being for residential, hospital or office buildings.

As we are aware of one thing:

Sound insulation means life quality!

IBT / IBTronic

References



Shopping Centre Limbecker Platz, Essen



Henninger Tower, Frankfurt



University library, Paderborn (Source: University Paderborn, Kamil Glabica)



Residential Development Project at Pontoon Dock London, UK (Source: Jody Parker, Director at Parker Bromley)



HM Prison Berwyn, Wales (Quelle: J. Williams, Precast Concrete Structures Ltd (PCS)

Prefabricated Concrete Installation

Table of Contents

IBT Precon equipment box, equipment junction box		
IBT Precon P71 DATA NEW		18 - 19
	EDM	STATE OF
IBT ceiling boxes for prefabricated ceilings		20 - 23
		B. L. P. E
Typical applications for IBT products from the production range		34 - 36

Prefabricated Concrete Installation

means the industrial production of wall and ceiling elements in the concrete plant and is carried out by pouring the concrete in formworks when laying down (horizontal) or standing upright (vertical) (battery moulds, vibration and tilting tables, etc.). The precast concrete elements are transported to the construction site and assembled there. The construction of the prefabricated ceilings (filigree floor) saves the slab formwork on site.

The installation sockets U86 and U120, for instance, are inserted in the filigree floors. They protrude beyond the ceiling slab and are provided with installation conduits on-site at the construction site. After that, concrete is grouted in until the full height is reached.

The system for **prefabricated concrete production**



The advantages at a glance:

- 3 basic types (GRD, GVD, GRO)
- Especially for laying factory production
- Highest efficiency and safety
- As per DIN 49073 for mounting of installation equipment
- As per DIN EN 60670 (VDE 0606)

- IBT Precon P71 DATA with expanded installation space
- 4 screw bosses, screw spacing 60 mm
- Combinable with each other in standard distances of 71 mm, fully insulated cable transition
- Suitable for opposing formwork

- Optimised for processing of precast concrete elements at the factory
- Safe fixation of conduit inlets
- Can be used easily and fast without additional tools
- Safe, precisely fitting and fast installation
- One-piece box means less storage space and less handling

Receptacles, branch sockets and large conduit boxes as per DIN EN 60670

The 3 basic types





P 71 GRD

- Dimensions: 71 x 71 x 55.5 mm
- Inlets on the side: 4 x EasyCut membrane for RA 16, RA 20, RA 25
- 1 x cap inlet up to 25 mm Ø



P 71 GVD P 71 GVD 2x M25

- Dimensions: 71 x 71 x 67.5 mm
- Inlets on the side:
 2 integrated combi-conduit inlets
 M20 and M25 or 2x M25
 with strain relief and conduit stoppers
- 4 x EasyCut membrane for RA 16, RA 20, RA 25
- 1 x cap inlet up to 25 mm Ø



P 71 GRO

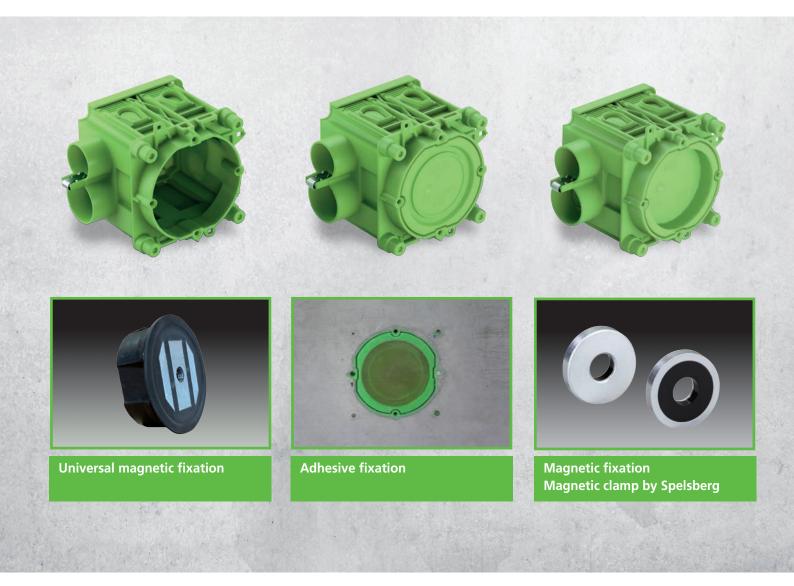
- Dimensions: 71 x 71 x 76.5 mm
- Inlets on the side:1 integrated conduit inlet M40with strain relief and conduit stoppers
- 3 x EasyCut membrane for RA 32 and RA 40
- 1 x cap inlet up to 25 mm Ø

Equipment box

Equipment junction box

Large conduit box

Fixing possibilities



Fixing with universal magnet

- Open front of the box for the use of different magnet brands, amongst others Ratec (04304)
- Secondary work step for knocking out the front part is no longer needed
- Suitable for formwork robots

Fixing with adhesive technology

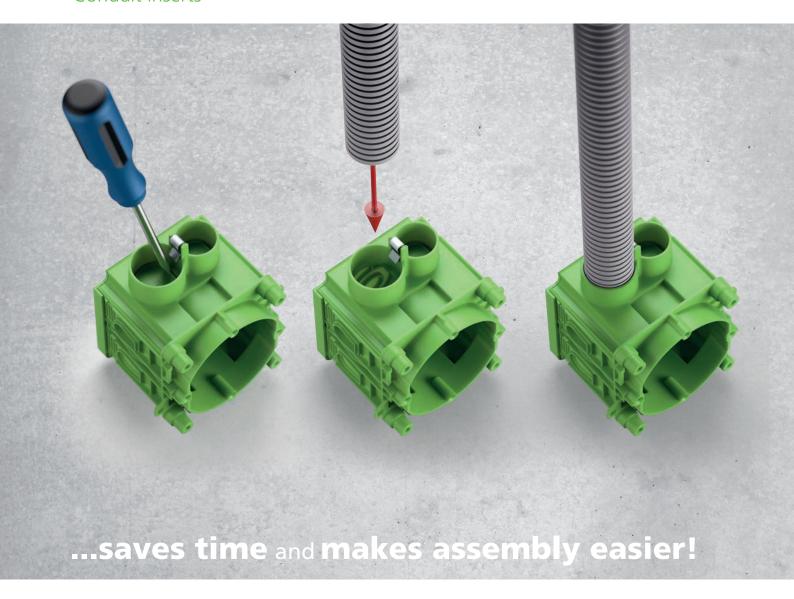
- Adhesive front designed especially for bonded fixation with hot glue permits an anti-twist fastening on laying steel formworks
- Integrated cavity allows fastening flush to the formwork

Fixing with **Spelsberg magnetic clamp**

- Fastening with HM-Uni magnet (979 280 01)
- Particularly attractive price-performance ratio

Precon System

Conduit inserts



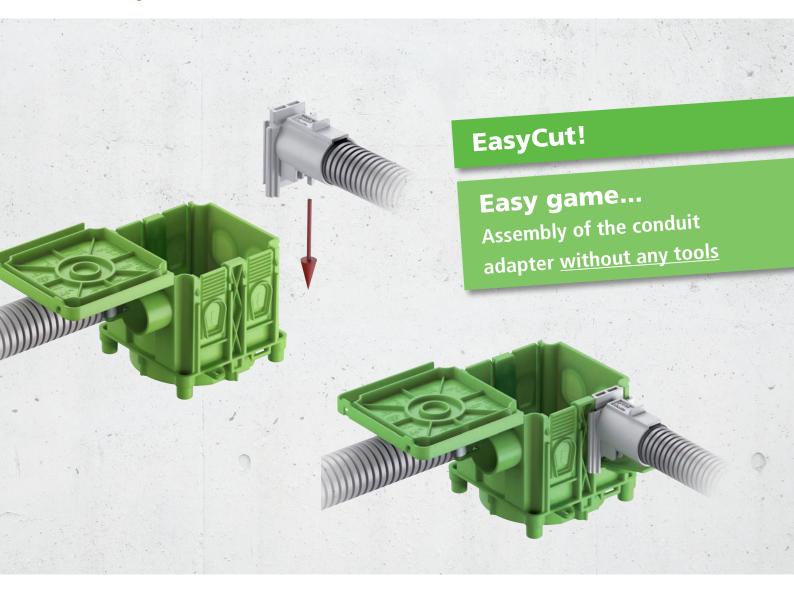
Conduit installation via the integrated conduit inlets (GVD + GRO)

- Conduit adaptation outside the enclosure
 - Conduits are not pushed into the enclosure
 - Installation space remains free
 - Rework is not needed

- Conduit adaptation with strain relief
 - Safe locking
 - Error sources are ruled out

Conduit inserts with integrated conduit stopper

With EasyCut!

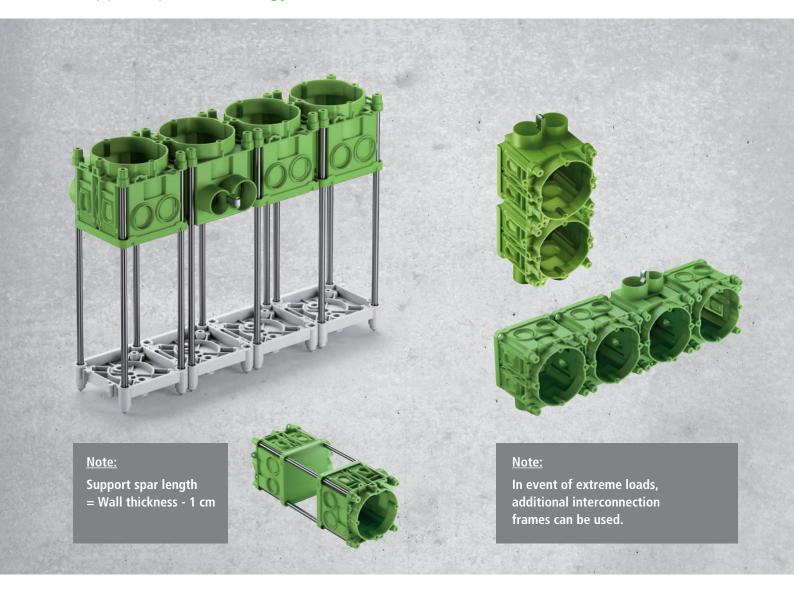


Conduit installation with conduit adaptation

- The conduit adaptation takes place outside the enclosure
- Conduit adaptation without tools
- The adapter is slid in from above
- Ergonomics are increased
- Movement of the socket by lateral insertion is ruled out
- Conduit adapters M16 to M40 as optional accessories
- Convenient, without tools
 Conduit adaptation via EasyCut
 membrane openings with strain relief
- Safe strain relief
- Optimised for simple and safe cable pull-through

Precon System

Support Spar Technology



Installation on opposing formwork

- Particularly safe fastening with opposing formwork
- Error sources are ruled out, higher safety
- Conduit inserts accessible without restriction
- Quick assembly, greater flexibility, lower costs
- Use with support spars (STH), U71 blind socket (BSK) or opposing socket, variable wall thicknesses with opposing formwork

Snap lock connection 2 piece combination



Snap lock connection 2 piece combination with additional interconnection frames

Snap lock connection 4 piece combination with additional interconnection frames



IBT Precon | The system for prefabricated concrete production

P 71 GRD equipment receptacle

71 x 71 x 55,5 mm















Receptacle, especially for horizontal factory finishing, 1-part, diameter 60 mm Ø, 4 screw bosses with a 60 mm screw spacing, combinable, suitable for opposing formwork, combinable with a standard spacing of 71 mm, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free

EasyCut membrane: 4 x up to M25

Description	Order no.
P 71 GRD with claw fixing, magnet installation, conduit adapter with Easy-Cut-Membran, Sealing area M16 - M25, support spar compatible	98404501
P 71 GRD-K with claw fixing, adhesive fixing, conduit adapter with Easy-Cut-Membran, Sealing area M16 - M25, support spar compatible	98474501
P 71 GRD-O with claw fixing, magnet installation, conduit adapter with Easy-Cut-Membran, Sealing area M16 - M25, support spar compatible	98494501

P 71 GVD equipment junction box

71 x 71 x 67 5 mm











Branch socket, especially for horizontal factory finishing, 1-part, diameter 60 mm \emptyset , 4 screw bosses with a 60 mm screw spacing, combinable, suitable for opposing formwork, combinable with a standard spacing of 71 mm, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free

Integrated conduit insertion: 1 x M25 and 1 x M20

I X IVIZO alla I X IVIZO

EasyCut membrane: 4 x up to M25

Description	Order no.
P 71 GVD with enlarged terminal compartment, with claw fixing, magnet installation, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M16 - M25, support spar compatible	98406501
P 71 GVD-K with enlarged terminal compartment, with claw fixing, adhesive fixing, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M16 - M25, support spar compatible	98476501
P 71 GVD-O with enlarged terminal compartment, with claw fixing, magnet installation, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M16 - M25, support spar compatible	98496501

IBT Precon | The system for prefabricated concrete production

P 71 GVD 2xM25

71 x 71 x 67,5 mm









Branch socket, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free

Integrated conduit insertion:

2 x M25

EasyCut membrane: 4 x up to M25

Description	Order no.
P 71 GVD 2xM25 magnet installation, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M16 - M25, support spar compatible	98406601
P 71 GVD-K 2xM25 adhesive fixing, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M16 - M25, support spar compatible	98476601
P 71 GVD-O 2xM25 magnet installation, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M16 - M25, support spar compatible	98496601

P 71 GRO large conduit box

71 x 71 x 76,5 mm











Large conduit box , especially for horizontal factory finishing, 1-part, diameter 60 mm \varnothing , 4 screw bosses with a 60 mm screw spacing, combinable, suitable for opposing formwork, combinable with a standard spacing of 71 mm, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free

Integrated conduit insertion:

1 v M//0

EasyCut membrane:

Description	Order no.
P 71 GRO with enlarged terminal compartment, , magnet installation, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M32 - M40, support spar compatible	98407501
P 71 GRO-K with enlarged terminal compartment, , adhesive fixing, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M32 - M40	98477501
P 71 GRO-O with enlarged terminal compartment, , magnet installation, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M32 - M40, support spar compatible	98497501

P 71 RA accessory



Conduit adapter, for receiving conduits without tools, integrated conduit stoppers and strain relief for P 71 GRD and P 71 GVD

M40 conduit adapter, integrated conduit stoppers and strain relief for P 71 GRO

DescriptionOrder no.RA 16
M16 conduit adapter, suitable for P 71 GRD and P 71 GVD98401601RA 20
M20 conduit adapter, suitable for P 71 GRD and P 71 GVD98402001RA 25
M25 conduit adapter, suitable for P 71 GRD and P 71 GVD98402501RA 32
M32 conduit adapter, integrated conduit stoppers and strain relief for P 71 GRO98403201RA 4098404001

More accessories see page 83

P71 DATA



P71 DATA - For reliable digital communication

We all know the challenges that today's data-intensive applications pose for the network. Recent events (with increased working from home and home schooling) have highlighted the limitations here. Regardless of this clock speeds are increasing significantly with data growth, whether through the Internet of Things (IoT), Cloud-Computing, interactive TV, streaming services or cloud gaming.

Anyone who does not consider the digital challenges of the future in their planning today will be left languishing in the past tomorrow.

In response to these challenges, Spelsberg has developed **P71 DATA**. Its key advantage is the expanded installation space allowing application neutral communications cabling to be accommodated.

Here it is irrelevant whether we are dealing with network level 4 or 5. Furthermore, the bending radii of both copper and also of glass fibre can be adhered to without problems. By means of the integrated M32 conduit adapter, duplex lines can also be introduced easily.









P71 DATA

P 71 DATA equipment junction box

71 x 181 x 66 mm









Branch socket, especially for horizontal factory finishing, 1-part, diameter 60 mm Ø, 4 screw bosses with a 60 mm screw spacing, combinable, suitable for opposing formwork, combinable with a standard spacing of 71 mm, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free

Description	Order no.
with further expanded connection space for installation of RUK and IUK components as recommenced by DIN 18015-1, and for taking actuators/sensors/devices in the Smart Home/IoT area, can also be combined with the P71 GVD Type, additional claw fixing possible, fixed conduit insertions for one M25 and one M32 conduit, 4 further insertions by means of optional conduit adapter RA from M16 to M25, magnet installation, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M16 - M32, support spar compatible	98406701
P 71 DATA-K NEW with further expanded connection space for installation of RUK and IUK components as recommenced by DIN 18015-1, and for taking actuators/sensors/devices in the Smart Home/IoT area, can also be combined with the P71 GVD Type, additional claw fixing possible, fixed conduit insertions for one M25 and one M32 conduit, 4 further insertions by means of optional conduit adapter RA from M16 to M25, adhesive fixing, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M16 - M32, support spar compatible	98476701
with further expanded connection space for installation of RUK and IUK components as recommenced by DIN 18015-1, and for taking actuators/sensors/devices in the Smart Home/IoT area, can also be combined with the P71 GVD Type, additional claw fixing possible, fixed conduit insertions for one M25 and one M32 conduit, 4 further insertions by means of optional conduit adapter RA from M16 to M25, magnet installation, conduit adapter and additional conduit adapter with Easy-Cut-Membran, Sealing area M16 - M32, support spar compatible	98496701

Advantages at a glance

- Expanded installation space for the network installation (according to DIN 18015-1)
- Supports the application-neutral communication cabling in the network levels 4/5 area
- Whether the cabling is in copper or glass fibre, the bending radii are easily adhered to.
- Integrated M32 adapter for stress-free installation of duplex cables
- Equally suitable for both network components and Smart Home Devices
- Can be combined with the standard equipment junction box of the Precon series
- Optimised for serial and modular construction

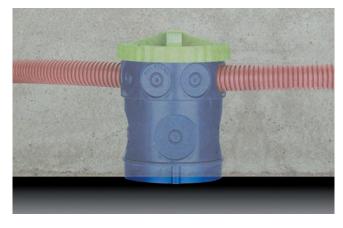
IBT Ceiling Boxes

For Prefabricated Ceilings



Ceiling Boxes U 86 und U 120

... are suitable as special boxes for panelled ceilings and partial prefabricated ceilings such as Filigran, Kaiser-Omnia, etc.. In the concrete plant, sockets are already inserted in the ceiling slab with a thickness up to 6.5 cm. The conduits can be-guided into the inserts still protruding. On the construction site, the concrete is then poured up to the height of the ceiling.



IBT Ceiling Boxes for In-situ Concrete and Prefabricated Ceilings

U 86 DVD universal ceiling box

74 x 106 mm









Ceiling junction box, for ceiling slab thickness up to 4.5 cm, with M5 threaded bushing (load capacity 10 kg) to hold ceiling hook, lamp output LED max. 3 W, lamp output Halogen max. 6.5 WThe use of U86 as a luminaire installation enclosure in large components such as element slabs or filigree slabs does not comply with the accredited state-of-the-art. Basically the admissible installation tolerances there do not allow for precise installation, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 86 DVD-2 magnet and nail installation, membrane for perforation, Sealing area M16 - M25	97308102
U 86 K DVD-2 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25	97378101
U 86 K DVD-3 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25	97378301
Recommended accessories:	Order no.
VD 75	07010001
sealing plate with fixing screws	97910001
	97910001

U 120 GRO large conduit ceiling box

74 x 122 mr









Large conduit box , for ceiling slab thickness up to 6.5 cm, with M5 threaded bushing (load capacity 10 kg) to hold ceiling hook, lamp output Halogen max. 6.5 W, lamp output LED max. 3 WThe use of U120 as a luminaire installation enclosure in large components such as element slabs or filigree slabs does not comply with the accredited state-of-the-art. Basically the admissible installation tolerances there do not allow for precise installation, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 120 GRO-3 magnet and nail installation, membrane for perforation, Sealing area M16 - M32	97331201
U 120 K GRO-3 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97371301
U 120 K GRO-2 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97371201
Recommended accessories:	Order no.
VD 75 sealing plate with fixing screws	97910001
DU 44F MF	97912101
DH 115-M5 ceiling hook 115 mm	37312101

IBT Ceiling Boxes for In-situ Concrete and Prefabricated Ceilings

U 120 GRO large conduit ceiling box

74 x 74 x 133 mm









Large conduit box , with open front section for special magnetic clip optimised for prefabricated parts, for ceiling slab thickness up to 7.5 cm, with M5 threaded bushing (load capacity 10 kg) to hold ceiling hook, lamp output halogen max. 6.5 W, lamp output LED max. 3 WThe use of U120 as luminaire installation enclosure in large components such as element slabs or filigree slabs does not comply with the accredited state-of-the-art. Basically the admissible installation tolerances there do not allow for precise installation, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 120 GRO-3-O NEW	97371401
2-part, open front section for special magnetic clamp	

U 71 DAD ceiling luminaire junction box

71 x 71 x 106 mn









Ceiling luminaire junction box, combinable, 35 mm outlet, 2-part, suitable for opposing formwork, 89 mm high, rearward dome with M5 threaded bushing (load capacity 10 kg) to accomodate a ceiling hook, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free, Number of 45° insertions: 4



Description	Order no.
U 71 DAD adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97154801
Recommended accessories:	Order no.
WAD VD Wall outlet socket, Sealing cover white, 35 mm Ø, outlet cover	97056201
DH 90-M5 ceiling hook 90 mm	97912201
DH 100-M5 ceiling hook 100 mm	97911901

IBT Ceiling Boxes for In-situ Concrete and Prefabricated Ceilings

U 71 DGR large ceiling conduit box

71 x 71 x 89 mm









Large conduit box , Diameter 60 mm Ø, 4 screw bosses with a 60 mm screw spacing, combinable, with M5 threaded bushing (load capacity 10 kg) to take a ceiling hook, suitable for all types of formwork and opposing formwork, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 71 DGR 2-part, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M40, support spar compatible	97277001
Recommended accessories:	Order no.
DH 90-M5 ceiling hook 90 mm	97912201
DH 100-M5 ceiling hook 100 mm	97911901

U 71 DVD ceiling connection box

71 x 71 x 79 mn







Ceiling junction box, 4 screw bosses with a 60 mm screw spacing, with M5 threaded bushing (load capacity 10 kg) to take a ceiling hook, combinable with normal 71 mm spacing, fully insulated cable transition, suitable for all types of formwork and opposing formwork, with protection class IP30,

Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 71 DVD-2 magnet and nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97106601
U 71 K DVD-2 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25	97176601
U 71 K DVD-3 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25	97186601
Recommended accessories:	Order no.
VD 75 sealing plate with fixing screws	97910001
DH 75-M5 ceiling hook 75 mm	97911701

IBT LED

Light Installation Boxes



The advantages at a glance:

- Use in-place concrete and prefabricated plant
- Low costs, quick installation
- Conduit adaptation without special tools
- Centre marking on the enclosure
- Simple alignment of the enclosure on the formwork table
- Nail fastening outside the enclosure
- Conduit inlets above the prefabricated ceiling
- Max. LED output of 15, 20 and 47 W
- 8 integrated conduit inlets for smooth and corrugated pipes (4 x M20, 4 x M25)

- Additional inlets up to M40
- Integrated conduit stopper and strain relief
- Simplified feed of the through-wiring
- Membrane inserts can be folded

IBT LED

Light Installation Boxes - multi-functional



For a versatile range of applications ...

The multi-functional light installation housing of the IBT LED series also has other functions: for example, as ceiling outlet for multi-media applications. The additional flexible membrane inlet of 16 mm to 40 mm gives the fitter the possibility to insert prefabricated cables without any problems.

The flexible membrane inlet 16mm - 40mm

...provides space for more individuality.

IBT LED Light Installation Boxes

IBTLED 1 177 x 200 x 135 mm









Installation housing, for prefabricated construction, halogen-free, for the installation of LV/HV/LED lights and speakers, announcement and call systems, for the installation of VDE-tested lights to DIN EN 60598 (VDE 0711), and with F or MM marking, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free

Description Order no. IBTLED 1 98210001

maximum installation depth for luminaires, speakers, announcement and call systems: 100 mm, lamp output, LED max. 15 W, lamp output halogen max. 25 W, additional inserts 2 x to M40, outlet aperture: Fermacell® plasterboard, variable up to max. 100 x 100 mm, 8 combi-conduit entry points 4 x M20, 4 x M25 integrated conduit stopper and strain relief for conduits M20, M25, adhesive fixing or nail installation, combination conduit insertion and membrane for perforation, Sealing area M16 - M40

IBTLED 2 227 x 250 x 135 mm











Installation housing, for prefabricated construction, halogen-free, for the installation of LV/HV/LED lights and speakers, announcement and call systems, for the installation of VDE-tested lights to DIN EN 60598 (VDE 0711), and with F or MM marking, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free

Description Order no. IBTLED 2 98215001

maximum installation depth for luminaires, speakers, announcement and call systems: 100 mm, lamp output, LED max. 20 W, lamp output halogen max. 50 W, additional inserts 4 x to M40, outlet aperture: Fermacell® plasterboard, variable up to max. 150 x 150 mm, 8 combi-conduit entry points 4 x M20, 4 x M25 integrated conduit stopper and strain relief for conduits M20, M25, adhesive fixing or nail installation, combination conduit insertion and membrane for perforation, Sealing area M16 - M40

IBTLED 3 277 x 400 x 165 mm











Installation housing, for prefabricated construction, halogen-free, for the installation of LV/HV/LED lights and speakers, announcement and call systems, for the installation of VDE-tested lights to DIN EN 60598 (VDE 0711), and with F or MM marking, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free

Description Order no. 1BTLED 3 98220001

maximum installation depth for luminaires, speakers, announcement and call systems: 130 mm, lamp output halogen max. 100 W, lamp output, LED max. 47 W, additional inserts 8 x to M40, Outlet aperture: Fermacell® board, variable up to max. 200 x 300 mm, 8 combi-conduit entries 4 x M20, M25, 4 x M25, integrated conduit stopper and strain relief for M20, M25 conduits, adhesive fixing or nail installation, combination conduit insertion and membrane for perforation, Sealing area M16 - M40

IBT LED Light Installation Boxes

IBTLED 3-f 277 x 400 x 135 mm











Installation housing, for prefabricated construction, halogen-free, for the installation of LV/HV/LED lights and speakers, announcement and call systems, for the installation of VDE-tested lights to DIN EN 60598 (VDE 0711), and with F or MM marking, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
IBTLED 3-f NEW	98220201
maximum installation depth for luminaires, speakers, announcement and call systems: 100 mm, lamp output, halogen max. 75 W, lamp output LED max. 35 W, additional inserts 4 x to M40, outlet aperture: Fermacell®	
board, variable up to max. 200 x 300 mm, 16 combi-conduit entries 8 x M20, M25, 8 x M25, integrated conduit	
stopper and strain relief for M20, M25 conduits, adhesive fixing or nail installation, combination conduit insertion and membrane for perforation, Sealing area M16 - M40	

IBTLED 1-0 177 x 200 x 125 mm











Installation housing, for prefabricated construction, halogen-free, for the installation of LV/HV/LED lights and speakers, announcement and call systems, for the installation of VDE-tested lights to DIN EN 60598 (VDE 0711), and with F or MM marking, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
IBTLED 1-O	98210101
maximum installation depth 100 mm, additional insertions 2 x to M40, adhesive fixing or nail installation,	
combination conduit insertion and membrane for perforation, Sealing area M16 - M40	

Front part for IBTLED 1-0 housing

145 x 145 x 27 mm







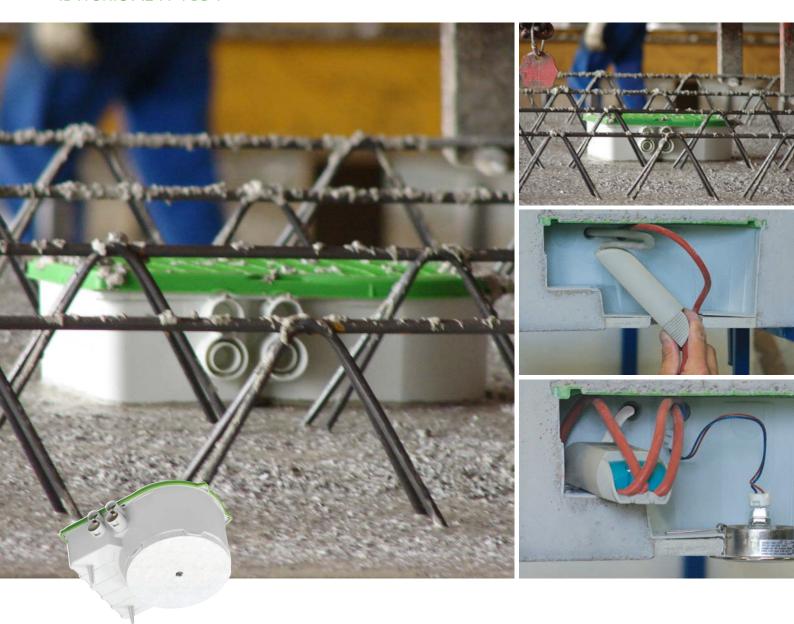




Front part, for use in combination with IBTLED 1-O installation box in site-cast concrete, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
FT75R Internal diameter 75 mm, diameter of external aperture edge min. 81 mm, adhesive fixing or nail installation	98207501
FT68R Internal diameter 68 mm, diameter of external aperture edge min. 74 mm, adhesive fixing or nail installation	98206801
FTF1 NEW with Fermacell® plasterboard variable up to max. 100 x 100 mm, adhesive fixing or nail installation	98211001

IBTronic XL H 185 F



- Universal installation enclosure for the prefabricated construction for the installation of NV / HV / LED lamps and loudspeakers
- Fermacell®-plate with tolerance compensation Ø 185 mm
- Outlet opening: variable to max. 150 mm
- Integrated transformer tunnel up to max. 150 VA
- Volumes 4.5 litres

- Transformer installation made
 easier thanks to shorter cable paths
- Simple alignment due to centre marking on the cover and enclosure
- Safe retention via 4 stainless steel clips, fully utilisable Fermacell®-plate
- Easy to find after plastering due to plaster lugs
- Stackable:
 - Optimum storage properties
 - Protection of the Fermacell®-plates

- Light installation
- Drill ceiling cut-outs up to max. Ø 150 mm with the Spelsberg professional hole cutter
- Transformer installation up to max. 150 VA
- For the installation of VDE tested lamps as per DIN EN 60598 as well as with or www marking, lamp output max. 50 W

IBTronic XL

IBTronic XL H 185 F

255 x 280 x 130 mm









Enclosure, for prefabricated construction, for the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 105 mm, HV lights: 110 mm, lamp output max. 50W / LED 25W, with additional connection space, (e.g. for installing an electronic safety transformer up to max. 150 VA), with protection class IPX4, Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
IBTronic XL H 185 F	97660401
Outlet aperture: Fermacell® plasterboard, variable to max. Ø 150 mm, 8 combi-conduit entries 4 x M20, 4 x M25, integrated conduit stopper and strain relief for conduits M20, M25, adhesive fixing or nail installation,	
integrated conduit adapter, Sealing area M20 - M25	



IBTronic









- Use as opposing socket from wall thickness 240 mm
- M25/M32 conduit stoppers integrated in the enclosure prevent the conduits to be inserted from being pushed through
- Simple assembly in the in-place concrete ceilings and walls as well as prefabricated components
- IBTronic allows halogen and LED lamps, loudspeakers as well as high-quality electronics to be integrated in the concrete ceiling in a convenient and elegant manner.
- IBTronic-TT for the simple mounting of an electronic safety transformer



IBTronic

IBTronic H 120 150 x 150 x 106 mm









Installation housing, for site cast or prefabricated concrete structures, for the installation of LV/HV/LED-luminaires and loudspeakers, suitable for adhesive fixing and opposing shuttering, for installation in ceilings from 140 mm, wall installation with IBT support spars, for the installation of VDE-approved lights per DIN EN 60598 (VDE 0711), as well as with F identification or MM identification, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
IBTronic H120-S1 Outlet aperture: 1-way receptacle. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 75 mm, HV lights: 80 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97600101
IBTronic H120-S2 Outlet aperture: 2-way receptacle. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 75 mm, HV lights: 80 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97600201
IBTronic H120-68 Outlet aperture: Ø 68 mm. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 75 mm, HV lights: 80 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97600501
IBTronic H120-0 selectable outlet aperture: Ø 108/120 mm For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 75 mm, HV lights: 80 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97600301
IBTronic H120-P Selectable outlet aperture: Fermacell® plasterboard, variable up to Ø 100 mm. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 75 mm, HV lights: 80 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97600401

IBTronic

IBTronic 150 x 150 x 151 mm









Installation housing, for site cast or prefabricated concrete structures, for the installation of LV/HV/LED-luminaires and loudspeakers, suitable for adhesive fixing and opposing shuttering, for installation in ceilings from 180 mm, wall installation with IBT support spars, for the installation of VDE-approved lights per DIN EN 60598 (VDE 0711), as well as with F identification or MM identification, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
IBTronic H120-S1-0 Selectable outlet aperture: 1-way receptacle or Ø 108 / 120 mm. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 120 mm, HV lights: 125 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W	97610301
IBTronic H120-P-O Selectable outlet aperture: Fermacell® plasterboard, variable up to max. Ø 100 mm or Ø 108 / 120 mm. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 120 mm, HV lights: 125 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97610401

IBTronic

IBTronic H 120 TT

306 x 150 x 106 mm







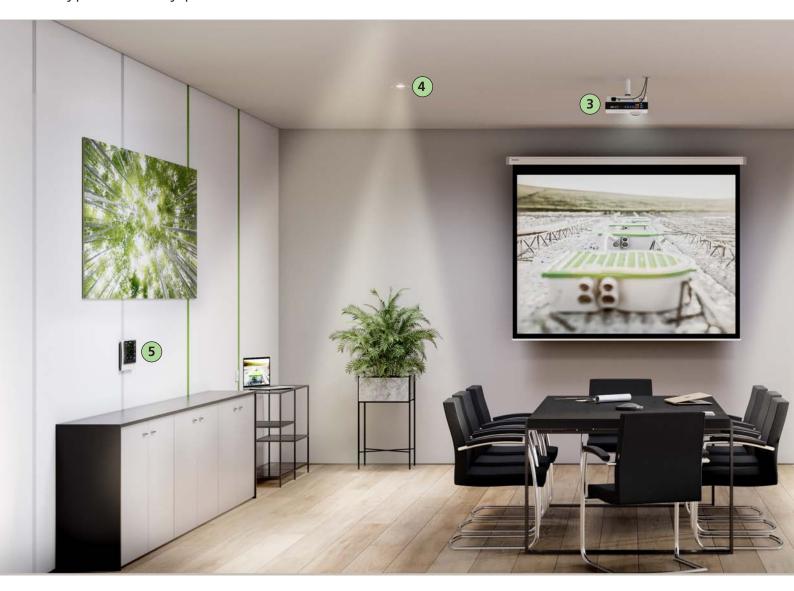


Installation housing, for site cast or prefabricated concrete structures, for the installation of LV/HV/LED-luminaires and loudspeakers, suitable for adhesive fixing and opposing shuttering, for installation in ceilings from 140 mm, wall installation with IBT support spars, for the installation of VDE-approved lights per DIN EN 60598 (VDE 0711), as well as with F identification or MM identification, with additional connection space (e.g. for installing an electronic safety transformer up to max. 150 VA), with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
IBTronic H120TT-S1 Outlet aperture: 1-way receptacle. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 75 mm, HV lights: 80 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97620101
IBTronic H120TT-S2 Outlet aperture: 2-way receptacle. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 75 mm, HV lights: 80 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97620201
IBTronic H120TT-68 Outlet aperture: Ø 68 mm. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 75 mm, HV lights: 80 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97620501
IBTronic H120TT-0 Outlet aperture: Ø 108 / 120 mm. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 75 mm, HV lights: 80 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97620301
IBTronic H120TT-P Selectable outlet aperture: Fermacell® plasterboard, variable up to Ø 100 mm. For the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 75 mm, HV lights: 80 mm, lamp output halogen max. 50 W, lamp output, LED max. 20 W, membrane for perforation, Sealing area M16 - M32	97620401

Typical factory production installations



Factory production installation options

The installation options for factory production allow wall and ceiling panels to be individually planned and prefabricated and are at the same time optimised for serial and modular construction. Here are just a few examples of the numerous possible product applications.



In times of skill shortages in the construction and electrical installation business, individually planned and prefabricated wall and ceiling panels offer a solution for high-quality and simultaneously fast construction. Here, production is usually by horizontal formwork. Spelsberg offers tested electronic installation solutions, optimised for production in the prefabrication factory.

- Integrated conduit adapter with conduit stop and strain relief
- Optimised front sections for different fixation to the formwork
- Tool-free adaptation of other conduit adapters to the equipment installation box

Typical factory production installations





In-Place Concrete

Table of Contents

Reinforcement box			38 - 44
U71 equipment boxes a	nd equipment junction boxes		45 - 50
Ceiling boxes			51 - 64
Mounting boxes			55 - 57
Drillbox			58 - 63
Locations of use of the I	BT boxes		45

In-Place Concrete

are individual installations on site. In doing so, a difference is made between laying (e.g. slab formwork) with only one formwork side and standing formwork with two formwork sides (work formwork with opposing formwork).

The Reinforcement Box



Installation solutions for exposed concrete

The viewing surface of exposed concrete is the reflection of the formwork surface. Due to the innovative reinforcement box, a perfect electric installation is enabled within the exposed concrete surfaces which do not damage the formwork surfaces. Perforation is done as known using the IBT punch. The reinforcement box can quickly be snapped in the reinforcement. After positioning, the reinforcement adapter can be fixed with tie wire.

The **patented spring system** compensates different concrete covers from 20 mm to 60 mm free of play where the box simply compensates the pressure of the formwork like a shock absorber. This guarantees a precise fitting in the area of the exposed concrete application or the opposing formwork.





Modern architecture is characterised by a clear logical language of forms. Cubic structure, Bauhaus style or loft apartments - the trend towards exposed concrete is uninterrupted. Exposed concrete expresses the originality and rawness of the building material and creates a high plasticity of the component.



The Reinforcement Box





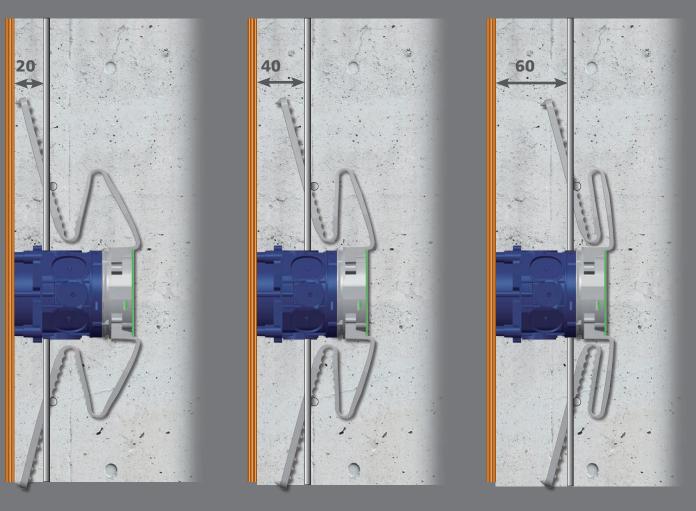


An easy assembly...

The installation of the reinforcement box is very simple. Perforation is done as known using the IBT punch (order no. 978 100 01) which is always 2-3 mm smaller than the outer diameter of the conduit in order to guarantee a strain relief.

The reinforcement box can be quickly inserted in the reinforcement and the adapter adopts to the diameter of the reinforcement bars. After positioning, the reinforcement adapter can be fixed with tie wire.

Concrete surface of the reinforcement-



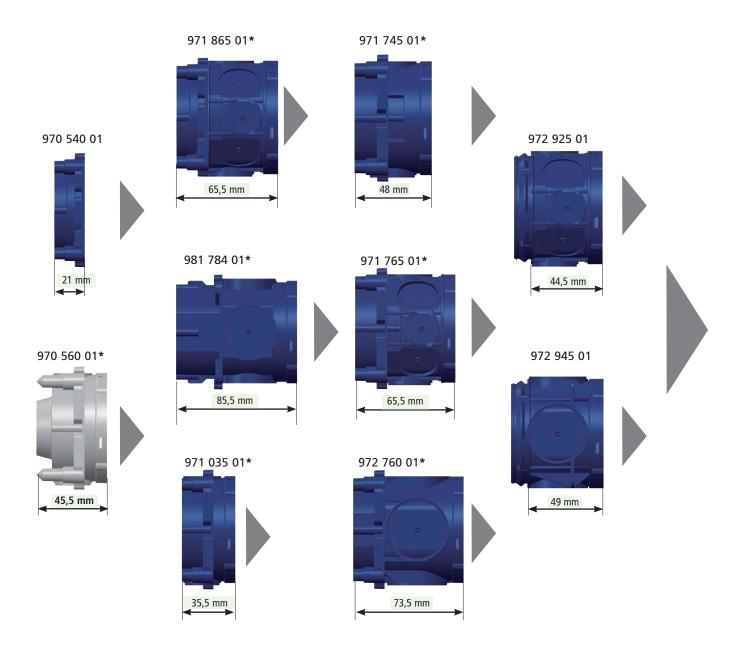
...by the patented spring technology

The patented spring system compensates different concrete covers from 20 mm to 60 mm free of play where the box simply compensates the pressure of the formwork like a shock absorber.

This guarantees a precise fitting in the area of the exposed concrete application or the opposing formwork.

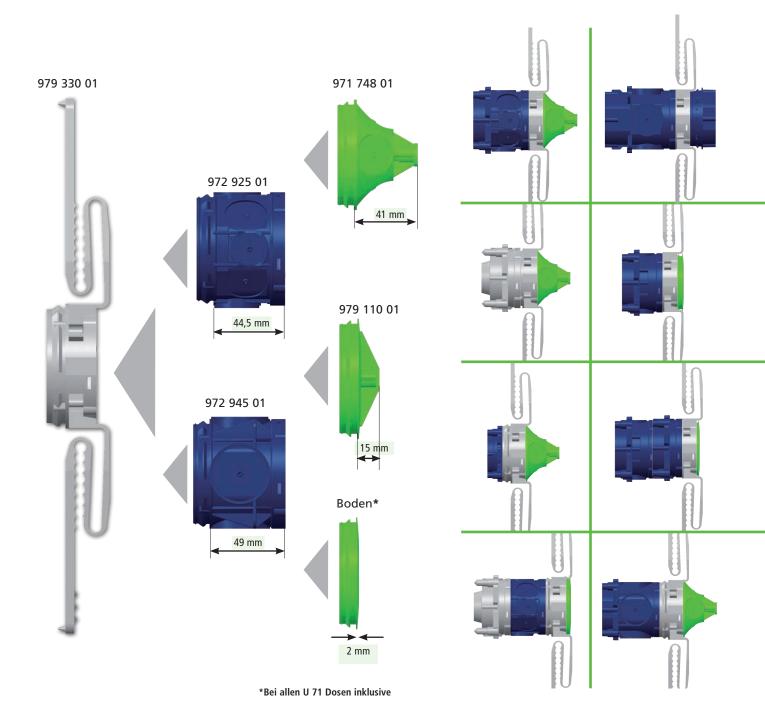
Reinforcement Box

The universal reinforcement adapter



The plug-in system - UNIVERSAL. WELL. THOUGHT-OUT.

The reinforcement adapter 979 330 01 can be used universally with all U 71 sockets and offers the greatest flexibility on the construction site. Irrelevant if U 71 flat, dome, equipment junction, large conduit, ceiling lamp connection, wall outlet, ceiling junction, lightweight concrete or deep boxes, there is the matching combination for every application. Using the deep box, the installation depth can be extended as desired.



...with many combination options



IBT Reinforcement adapter / Reinforcement Box

U 71 reinforcement adapter

76 x 300 x 35 mm





Reinforcement adapter, suitable for taking all U71 sockets (except for Perilex), combinable with a standard spacing of 71 mm, face concrete for opposing formwork without support with preinstallation in the reinforcement for concrete construction, Halogen free

Description	Order no.
IBT BWA	97933001
installation at reinforcement via reinforcement adapter	

U 71 BWD WAD-35

76 x 300 x 65 mn









Reinforcement box, green rearward base with max. 1 x 25 mm insert, combinable, suitable for opposing formwork without support, pre-installation in the reinforcement bars, for concrete installation, combinable with a standard spacing of 71 mm, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free



Description Order no. U 71 BWD WAD-35 97016001

2-part, height 65mm, 35 mm Ø discharge at the front, entries: 2 x to 20 mm Ø, concrete cover for the reinforcement of 20-60 mm, for connecting wall lights according to VDE 0100, with screw hole for light fitting, installation at reinforcement via reinforcement adapter, membrane for perforation, Sealing area M16 - M20

76 v 200 v 65 mm



Sealing area M16 - M25

U 71 BWD GVD-2-60









Reinforcement box, green rearward base with max. 1 x 25 mm insert, combinable, suitable for opposing formwork without support, pre-installation in the reinforcement bars, for concrete installation, combinable with a standard spacing of 71 mm, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free

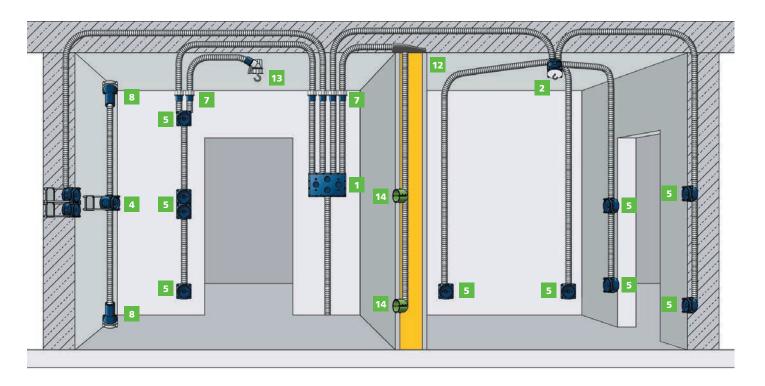


DescriptionU 71 BWD GVD-2-60

2-part, height 85mm, 60 mm Ø discharge at the front, entries: 6 x to 25 mm Ø, 2 x to 20 mm Ø, concrete cover for the reinforcement of 20-60 mm, for connecting wall lights according to VDE certified according to DIN EN 60670 (VDE 0606), installation at reinforcement via reinforcement adapter, membrane for perforation,

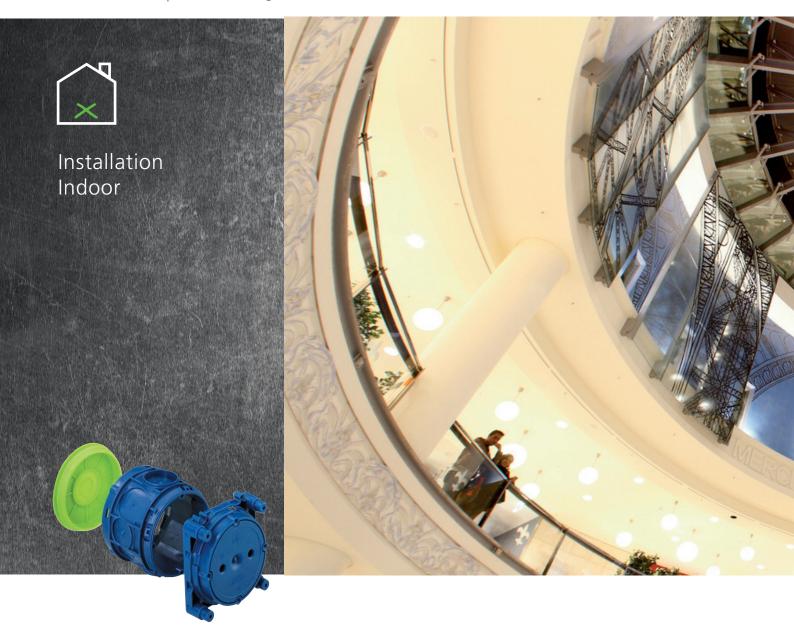
Locations of use

IBT Concrete Installation



Nr.		Description	Order No.	Nr.		Description	Order No.
1	133	K 4 EK, Mounting Box UP 015, Distributor kit	980 004 01 986 000 01	7		ROP 18, Conduit Ferrule ROK 1, alternativ with Conduit Elbow for low Bending angle	970 518 01 970 425 01
2		U 71 DVD-2, Ceiling-Junction Box DH 75-M5, with Ceiling Hook VD 75, and sealing plate	971 066 01 979 117 01 979 100 01	8		KOT 18, Cone Funnel for risers	970 618 01
3		U 71 GVD-2, Branch socket STH 70, with 2 support spar U 71 BSK-NA, and 1 Blank base when opposing formwork	971 065 01 979 570 01 979 530 01	12	110	DAL 1 Universal outlet cleats, M20 DAL 2 Universal outlet cleats, M25 DAL 4 Universal outlet cleats, M32	970 705 01 970 706 01 970 704 01
4		U 71 GRO, Large Conduit Box STH 70, with 2 support spar U 71 BSK-NA, and 1 Blank base when opposing formwork	972 960 01 979 570 01 979 530 01	13	500	Conduit Ferrule/Conduit Elbow for concrete installation ROK 1-S, Conduit Type M20 ROK 2-S, Conduit Type M25 ROK 3-S, Conduit Type M32	970 720 01 970 725 01 970 732 01
5		U 71 GRD, Equipment Box or alternativ U 71 GVD-2, Equipment Junction Box	971 045 01 971 065 01	14	6	HW 050 Receptacle or HW 065 Branch Socket	920 050 01 920 065 01

IBT Products | Case study



Safe electrical installation for "Limbecker Platz" shopping centre in Essen

The "Limbecker Platz" shopping centre in Essen is one of the largest inner-city malls in Germany with an area of 70,000 square metres and an overall investment of around 300 million Euro. Concealed within its concrete walls and ceilings are various Spelsberg products, which provide the perfect framework for electrical installation.

The IBT series developed especially for concrete construction enables optimal installation of high-quality technology in cast-in-place concrete and prefabricated elements. Connector and ceiling sockets, junction boxes and other installation devices must be fastened on the formwork before the actual concrete process and then cast in place.

The patented sealing principle – a membrane surrounds the incoming pipe – guarantees tension relief and a tight seal of components with the IBT connection sockets and boxes. With the patented support spar technique, the enclosure can also be installed equally safely in horizontal or vertical formwork.



More than 200 shops with Spelsberg Technology

The spars hold the socket in the correct position during the pouring process – even under extreme pressure from the concrete.

Therefore, the concrete solutions from Spelsberg guarantee use of high-quality electrical devices in open spaces, corridors and more than 200 shops.



IBT Equipment Junction Boxes

U 71 FD flat box

71 x 71 x 38 mm













Flat box, flat construction type for extremely thin walls, 2 screw bosses with 60 mm screw spacing, combinable with normal 71 mm spacing, fully insulated cable transition, suitable for all types of formwork and opposing formwork, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 71 FD adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M20, support spar compatible	97103501
Recommended accessories:	Order no.

U 71 GRD receptacle

71 x 71 x 50 mm















Receptacle, 2 screw bosses with 60 mm screw spacing, combinable with normal 71 mm spacing, fully insulated cable transition, suitable for all types of formwork and opposing formwork, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free



Description	Order no.
U 71 GRD 2-part, magnet and nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97104501
U 71 K GRD 2-part, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97174501
Recommended accessories:	Order no.
VD 75 sealing plate with fixing screws	97910001

U 71 GVD-2 equipment junction box, 2 parts

71 x 71 x 68 mm











Branch socket, 4 screw bosses with 60 mm screw spacing, combinable with normal 71 mm spacing, fully insulated cable transition, suitable for all types of formwork and opposing formwork, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free



Description	Order no.
U 71 GVD-22-piece, with enlarged terminal compartment, magnet and nail installation, membrane for perforation,Sealing area M16 - M25, support spar compatible	97106501
U 71 K GVD-2 2-piece, with enlarged terminal compartment, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97176501
Recommended accessories:	Order no.
VD 75 sealing plate with fixing screws	97910001

IBT Equipment Junction Boxes

U 71 GVD-3 equipment junction box, 3 parts

71 x 71 x 68 mm









Branch socket, in component factories also, 4 screw bosses with 60 mm screw spacing, combinable with normal 71 mm spacing, fully insulated cable transition, suitable for all types of formwork and opposing formwork, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free



Description	Order no.
U 71 GVD-3 3-part, magnet and nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97136501
U 71 K GVD-3 3-part, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97186501
Recommended accessories:	Order no.
VD 75 sealing plate with fixing screws	97910001

U 71 GRO large conduit box

71 x 71 x 76 mm









Large conduit box , 4 screw bosses with 60 mm screw spacing, combinable with normal 71 mm spacing, fully insulated cable transition, suitable for all types of formwork and opposing formwork, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 60670-1/-22 (VDE 0606-1/-22)), Halogen free



Description	Order no.
U 71 GRO 2-part, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M40, support spar compatible	97296001
U 71 K GRO 2-part, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M40, support spar compatible	97276001
Recommended accessories:	Order no.
VD 75 sealing plate with fixing screws	97910001

WAD wall outlet socket

71 x 71 x 48 mm









Wall outlet socket, for connecting wall luminaires according to VDE 0100, with screwed hole for light fixing, combinable, front outlet of 35 mm, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
WAD 2-part, suitable for all types of formwork and opposing formwork, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M20, support spar compatible	97056001
WAD VD 2-part, sealing cover white, 35 mm Ø, outlet cover	97056201

IBT Socket Enclosures

U 71 Perilex socket enclosure

71 x 71 x 50 mm









Receptacle, 67 mm screw spacing, for Perilex® inserts 16 A, FR-UP equipment, CEE sockets, 5-pole 16 A, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 71 Perilex 2-part, magnet and nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97305001
Recommended accessories:	Order no.
VD 75 sealing plate with fixing screws	97910001

U 71 KUD dome box

71 x 71 x 91 mm









Dome box, can also be used as a sealing box, 2 screw bosses with 60 mm screw spacing, combinable with normal 71 mm spacing, fully insulated cable transition, suitable for all types of formwork and opposing formwork, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free, Number of 45° insertions: 4



Description	
U 71 KUD 2-part, magnet and nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	
U 71 KUD-M5 2-part, membrane for perforation, Sealing area M16 - M25	
Recommended accessories:	
VD 75 sealing plate with fixing screws	97910001
DH 90-M5 ceiling hook 90 mm	97912201

U 71 TD-44 71 x 71 x 49 mm







Deep box, as top enclosure for all U 71 boxes when using large concrete conduits up to M25, screw spacing 60 mm, provides additional installation space of 44mm in depth, with protection class IP00, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 71 TD-44	97292501
attachable, membrane for perforation, Sealing area M16 - M25	

IBT Ceiling Boxes

U 71 TD-49

71 x 71 x 49 mm





Deep box, as top enclosure for all U 71 boxes when using large conduits up to M32, screw spacing 60 mm, provides additional installation space of 49mm in depth, with protection class IP00, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 71 TD-49	97294501
attachable, membrane for perforation, Sealing area M16 - M32	

U 86 DVD universal ceiling box

74 x 106 mn









Ceiling junction box, for ceiling slab thickness up to 4.5 cm, with M5 threaded bushing (load capacity 10 kg) to hold ceiling hook, lamp output LED max. 3 W, lamp output Halogen max. 6.5 WThe use of U86 as a luminaire installation enclosure in large components such as element slabs or filigree slabs does not comply with the accredited state-of-the-art. Basically the admissible installation tolerances there do not allow for precise installation, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 86 DVD-2 magnet and nail installation, membrane for perforation, Sealing area M16 - M25	97308102
U 86 K DVD-2 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25	97378101
U 86 K DVD-3 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25	97378301
Recommended accessories:	Order no.
Recommended accessories: VD 75 sealing plate with fixing screws	Order no. 97910001
VD 75	

IBT Ceiling Boxes

U 120 GRO large conduit ceiling box

74 x 122 mm









Large conduit box , for ceiling slab thickness up to 6.5 cm, with M5 threaded bushing (load capacity 10 kg) to hold ceiling hook, lamp output Halogen max. 6.5 W, lamp output LED max. 3 WThe use of U120 as a luminaire installation enclosure in large components such as element slabs or filigree slabs does not comply with the accredited state-of-the-art. Basically the admissible installation tolerances there do not allow for precise installation, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 120 GRO-3 magnet and nail installation, membrane for perforation, Sealing area M16 - M32	97331201
U 120 K GRO-3 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97371301
U 120 K GRO-2 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32	97371201
Recommended accessories:	Order no.
VD 75	97910001
sealing plate with fixing screws	
DH 115-M5 ceiling hook 115 mm	97912101

IBT Ceiling Boxes

U 71 DAD ceiling luminaire junction box

71 x 71 x 106 mm









Ceiling luminaire junction box, combinable, 35 mm outlet, 2-part, suitable for opposing formwork, 89 mm high, rearward dome with M5 threaded bushing (load capacity 10 kg) to accomodate a ceiling hook, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free, Number of 45° insertions: 4



Description	Order no.
U 71 DAD adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97154801
Recommended accessories:	Order no.
WAD VD Wall outlet socket, Sealing cover white, 35 mm Ø, outlet cover	97056201
DH 90-M5 ceiling hook 90 mm	97912201
DH 100-M5 ceiling hook 100 mm	97911901

U 71 DGR large ceiling conduit box

71 x 71 x 89 mm









Large conduit box , Diameter 60 mm Ø, 4 screw bosses with a 60 mm screw spacing, combinable, with M5 threaded bushing (load capacity 10 kg) to take a ceiling hook, suitable for all types of formwork and opposing formwork, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 71 DGR 2-part, adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M40, support spar compatible	97277001
Recommended accessories:	Order no.
DH 90-M5 ceiling hook 90 mm	97912201
DH 100-M5 ceiling hook 100 mm	97911901

IBT Ceiling Boxes

U 71 DVD ceiling connection box

71 x 71 x 79 mm









Ceiling junction box, 4 screw bosses with a 60 mm screw spacing, with M5 threaded bushing (load capacity 10 kg) to take a ceiling hook, combinable with normal 71 mm spacing, fully insulated cable transition, suitable for all types of formwork and opposing formwork, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
U 71 DVD-2 magnet and nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97106601
U 71 K DVD-2 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25	97176601
U 71 K DVD-3 adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25	97186601
Recommended accessories:	Order no.
VD 75 sealing plate with fixing screws	97910001
DH 75-M5 ceiling hook 75 mm	97911701

IBT Installation Boxes

KO EK installation box

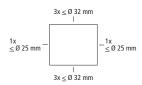
111 x 71 x 61 mm







Mounting box, suitable as a junction box, screw spacing 83.5 mm (3 9/32 inch) and 100 mm, complies with AFI standard, for installing "American Standard 432", equipment per NEMA Publ. NO.OS 1, combinable, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
K0 EK magnet and nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97700101
Recommended accessories:	Order no.
K0 VD sealing plate	97710001
K0 K15 BL Blank strip, 2 blank cleats per box required	97953201

K15 EK installation box

116 x 111 x 61 mm

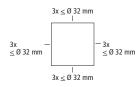








Mounting box, suitable as a junction box with large terminal space, screw spacing 2 x 83.5 mm (3 9/32 inch) and 1 x 100 mm, complies with AFI standard, for installing "American Standard" equipment acc. to NEMA Publ. NO.OS 1, corresponds to the »''4" square box« for 2 units, combinable, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
K15 EK magnet and nail installation, membrane for perforation, Sealing area M16 - M32, support spar compatible	97700201
Recommended accessories:	Order no.
K15 VD sealing plate	97710501
KO K15 BL Blank strip, 2 blank cleats per box required	97953201

IBT Installation Boxes

K3 EK installation box

142 x 142 x 70 mm

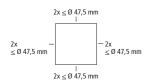








Mounting box, prepared to take the WK terminal blocks 2.5 - 25 mm², suitable to take a 20-pole telephone terminal strip or as a telephone continuity box to DIN 47614-615, combinable, with protection class IP30, Rated insulation voltage: 400V AC, certified according to VDE (DIN EN 50085-1 (VDE 0604-1)), Halogen free



Description	Order no.
K3 EK magnet and nail installation, membrane for perforation, Sealing area M16 - M50, support spar compatible	98000201
Recommended accessories:	Order no.
K3 VD sealing plate	98010001

K4 EK installation box

311 x 202 x 87 mn

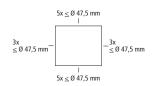








Mounting box, prepared to take the WK terminal blocks $2.5-25~\text{mm}^2$, suitable to take a 40-pole telephone terminal strip, as a telephone continuity box acc. to DIN 47614-615 or as a small distribution board in combination with the UP 015 (1-row, 15 distribution units), with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
K4 EK magnet and nail installation, membrane for perforation, Sealing area M16 - M50, support spar compatible	98000401
Recommended accessories:	Order no.
K4 VD sealing plate	98010401

IBT Installation Boxes

K4 - H EK installation box

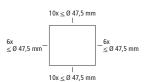
311 x 202 x 158 mm







Universal mounting enclosure, for installing LV/HV/LED luminaires and loudspeakers, prepared to take the WK terminal blocks 2.5 – 25 mm², suitable to take a 40-pole telephone terminal strip, as a telephone continuity box acc. to DIN 47614-615 or as a small distribution board in combination with the UP 015 (1-row, 15 distribution units), with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description K4-H EK	Order no. 98000501
without Fermacell®plasterboard, lamp output max. 50W/LED 40W, magnet and nail installation, membrane for perforation, Sealing area M16 - M50, support spar compatible	30000301
K4-H-P EK Fermacell® plasterboard with recess (max. load-bearing capacity 10 kg), variable to max. 220 x 150 mm, max. installation height LV lights: 130 mm, HV lights: 135 mm, electronic transformer up to max. 150 VA, lamp output max. 50W/LED 40W, magnet and nail installation, membrane for perforation, Sealing area M16 - M50, support spar compatible	98000601
Recommended accessories:	Order no.
K4 VD sealing plate	98010401

UP 015 - Distributor kit

311 x 202 x 87 mm





Distributor kit, 15 distribution units, plastic frame and door, white, with spring latch, 35 mm DIN standard rail, PE/N terminals, masking off strips and labelling strips for K4 EK mounting boxes, Rated insulation voltage: 400V AC, Halogen free

<u> </u>	
Description	Order no.
UP 015	98600001
1-row	

IBTronic XL Drillbox | Case study



IBTronic Drillbox | "Job done!" Retrofitting with ease of luminaire installation enclosures

ABS – Haustechnik supplies everything you could need in the fields of heating/ plumbing, electricals, painting, flooring/ tiling, building management, restoration of old buildings and fire/mains water damage.

During one project the need arose to rapidly retrofit around 140 luminaire installation enclosures for recessed spots/ down spots in existing prefabricated ceilings prior to final concreting.









"That's when I came across the IBTronic Drillbox from Spelsberg. Comprehensive telephone advice was available, allowing all questions to be answered in advance. Delivery was quick and installation was similarly easy and smooth. The clear advantage from my point of view is that once the ceiling has been drilled and the Drillbox fitted no further supports are required. Job done!

This cuts both the time required and the materials held in stock enormously. Our client was also extremely satisfied. I can recommend the Drillbox for projects like this. Thanks again for the expert advice."

Volker Leffeck CEO, ABS-Haustechnik

IBTronic XL Drillbox



- Universal installation enclosure for subsequent assembly in prefabricated ceilings
- For the installation of NV / HV and LED lamps
- The 2-piece lamp adapter can compensate ceiling thicknesses of 45 to 70 mm. The ceiling outlet opening is 76 mm, where the outer ring diameter of the lamp must be at least 85 mm. The retaining springs are locked in the lamp adapter. The lighting unit is mounted up to the lamp cover ring closes flush to the ceiling.

Light installation

- · Ø 82 mm core hole
- · Fasten the enclosure and connect the conduits
- Transformer installation up to max. 150 VA
- · For the installation of VDE tested lamps as per DIN EN 60598 as well as with
- \cdot Luminaire power up to 50 W

Insert flexibly

- 8 integrated conduit inlets for smooth and corrugated conduits (4 x M20, 4 x M25))
- Integrated conduit stopper and strain relief
- \cdot 8 membrane inserts that can be folded
- Conduit inlets above the prefabricated ceiling







www.spelsberg.com

IBTronic XL Drillbox 150



- Universal installation enclosure for subsequent assembly in prefabricated ceilings
- For the installation of NV / HV / LED lamps and loudspeakers
- Ø 150 mm core hole
- Fermacell® plate with tolerance compensation variable to max. Ø 100 mm
- For the installation of VDE tested lamps as per DIN EN 60598 as well as with

 For WW marking
- Lamp output max. 50 W Cool Beam

Insert flexibly

- 8 integrated conduit inlets for smooth and corrugated conduits
 (4 x M20, 4 x M25)
- Integrated conduit stopper and strain relief
- · 8 membrane inserts that can be folded
- Conduit inlets above the prefabricated ceiling







IBTronic XL Drillbox | For subsequent assembly in prefabricated ceilings

IBTronic XL Drillbox

255 x 280 x 92 mm





Enclosure, for prefabricated construction, for installing LV/HV/LED luminaires, suitable for subsequent installation in prefabricated ceilings 45-70 mm with Ø 82 mm core drilling, for the installation of VDE-approved lights per DIN EN 60598 (VDE 0711), as well as with F identification or MM identification, max. installation height LV lights: 105 mm, HV lights: 110 mm, lamp output max. 50W Alu, with additional connection space, (e.g. for installing an electronic safety transformer up to max. 150 VA), Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
IBTronic XL Drillbox Outlet aperture: Ø 76 mm, ORD (Outer Ring Diameter of lights), min. Ø 85 mm, 8 combi-conduit entry points 4 x M20, 4 x M25 integrated conduit stopper and strain relief for conduits M20, M25, dowel installation at floor slab, integrated conduit adapter, Sealing area M20 - M25	97680101

Light installation kit



Light mounting kit as spare parts for IBTronic XL Drillbox and IBTronic XL E

Description	Order no.
LMK 76	97980301

IBTronic XL Drillbox 150 | For subsequent assembly in prefabricated ceilings

IBTronic XL Drillbox 150

255 x 280 x 92 mm





Enclosure, for prefabricated construction, for installing LV/HV/LED luminaires, suitable for subsequent installation in prefabricated ceilings 45-70 mm with Ø 152 mm core drilling, for the installation of VDE-approved lights per DIN EN 60598 (VDE 0711), as well as with F identification or MM identification, max. installation height LV lights: 105 mm, HV lights: 110 mm, lamp output max. 50W Alu, with additional connection space, (e.g. for installing an electronic safety transformer up to max. 150 VA), Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
IBTronic XL Drillbox 150	97680401
Selectable outlet aperture: Fermacell® plasterboard, variable to Ø 100 mm, 8 combi-conduit entries 4 x M20,	
4 x M25, integrated conduit stopper and strain relief for conduits M20, M25, dowel installation at floor slab,	
integrated conduit adapter, Sealing area M20 - M25	

Wall and Ceiling Transitions

Table of Contents

UVA, KOT, ROP, ROK, DAL		64 - 73
Application images		
UVA universal outlet		70
RVB conduit coupling		70
DAL universal outlet cleats		71
Conduit ferrule, conduit elbow, support spars		72 - 73

IBT wall and ceiling transitions

ROP conduit ferrule





Conduit ferrule, with bottom section, to take various conduit diameters, Rated insulation voltage: 400V AC, Halogen free, Number of 30° insertions: 1

Description	Order no.
ROP 20 adhesive fixing or nail installation, Sealing area M20, support spar compatible	97051801
ROP 25 adhesive fixing or nail installation, Sealing area M25, support spar compatible	97052301
ROP 32 adhesive fixing or nail installation, Sealing area M32, support spar compatible	97053001
ROP 40 adhesive fixing or nail installation, Sealing area M40, support spar compatible	97053701

ROK conduit elbow





Conduit elbow, Rated insulation voltage: 400V AC, Halogen free, Number of 30° insertions: 1

Description	Order no.
ROK 20 for 30° insertion to insert into conduit ferrule (small) 97051801, M20, Sealing area M20	97042501
ROK 25 for 30° insert to insert into conduit ferrule (medium) 97052301, M25, Sealing area M25	97043001
ROK 32 for 30° insert to insert into conduit ferrule (large) 97053001, M32, Sealing area M32	97043501

IBT wall and ceiling transitions

ROK conduit ferrule / conduit elbow set





Conduit elbow set, consisting of conduit ferrule with bottom section and conduit elbow 30°, Rated insulation voltage: 400V AC, Halogen free, Number of 30° insertions: 1

Description	Order no.
ROK 20 S 3-part, adhesive fixing or nail installation, Sealing area M20, support spar compatible	97072001
ROK 25 S 3-part, adhesive fixing or nail installation, Sealing area M25, support spar compatible	97072501
ROK 32 S 3-part, adhesive fixing or nail installation, Sealing area M32, support spar compatible	97073201

UVA universal outlet 90°

126 x 86 x 57 mm







Universal outlet, for simple conduit transfers in walls and ceilings or for routing conduits beneath plasterwork. Entries for conduits up to M25. suitable for adhesive fixing and opposing shuttering (when using support spar technology, please take strict note that: (support spar length = wall thickness minus 2 cm),

Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
UVA 90 adhesive fixing or nail installation, Sealing area M20 - M25, support spar compatible	97071601
Recommended accessories:	Order no.
RVB 20 Conduit coupling, for long-ridged pipes M20	97022001
RVB 25 Conduit coupling, for long-ridged pipes M25	97022501
U 71 BSK-K blank base, height 21 mm for adhesive fixing	97953801
U 71 BSK blank base, height 21 mm for magnet fixing, magnet hole has to be plastered later	97953901

IBT wall and ceiling transitions

KOT cone funnels





Cone funnel, for wall-to-wall connections or wall-ceiling transfers in large panel constructions and for connections from risers (e.g. telephone TV) also suitable for magnet fixing and opposing formwork, Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
KOT 20 magnet and nail installation, Sealing area M20, support spar compatible	97061801
KOT 25 magnet and nail installation, Sealing area M25, support spar compatible	97062301
KOT 32 magnet and nail installation, Sealing area M32, support spar compatible	97063001
KOT 40 magnet and nail installation, Sealing area M40, support spar compatible	97063701

DAL universal outlet cleats

35 x 35 mm





Universal outlet cleats, usable as a ceiling outlet with a large tolerance compensation, with protection class IPOO, Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
DAL 1 DAL 1 and DAL 2 can be combined next to each other and one behind the other without tools, adhesive fixing or nail installation, Sealing area M20 - M25	97070501
DAL 2 DAL 1 and DAL 2 can be combined next to each other and one behind the other without tools, adhesive fixing or nail installation, Sealing area M25	97070601
DAL 4 adhesive fixing or nail installation, Sealing area M32 - M40	97070401

IBT wall and ceiling transitions

KUK dome box

90 x 40 x 55 mm





Dome box, as a ceiling outlet and wall-ceiling connection in cast-in-place concrete or large panel construction, with protection class IPOO, Rated insulation voltage: 400V AC, Halogen free, Number of 45° insertions: 8



Description	Order no.
KUK	97055001
adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M25	

VBK junction box

95 x 90 x 50 mr







Junction boxes, as a wall/ceiling transfer in large panel construction, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
VBK membrane for perforation, Sealing area M16 - M25	97069001
Recommended accessories:	Order no.
VD 75 sealing plate with fixing screws	97910001

IBT wall and ceiling transitions

KUT dome funnel

71 x 71 x 62 mm









Dome funnel, as a ceiling outlet for internal partition or as luminaire outlet, combinable with normal 71 mm spacing, with smooth face, suitable for all types of formwork and opposing formwork, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free, Number of 45° insertions: 4



Description	Order no.
U 71 KUT 2-part, adhesive fixing or nail installation, Sealing area M16 - M25, support spar compatible	97054001
Recommended accessories:	Order no.
DH 65-M5 ceiling hook 65 mm	97912001

wall and ceiling transitions



UVA 90 universal outlet

▲ UVA 90 universal outlet

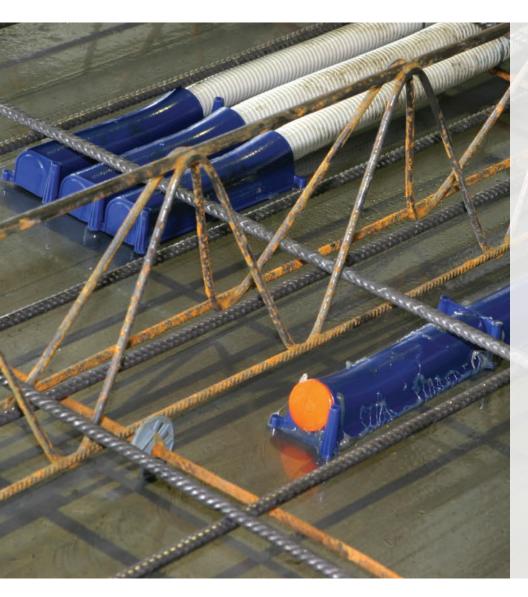
for the installation in concrete with minimum space requirement for the simple conduit transition in the wall and ceiling area or for further routing on the concrete floor. Inlets for conduits up to M25. Suitable for nail and adhesive fastening as well as support with blind socket and support spars for opposing formwork.



▲ UVA 90 universal outlet



▲ RVB conduit coupling (without conduit) with strain relief, grey, for flexible and fixed electrical installation conduits from M20 to M40.



■ DAL universal - outlet cleats

for the installation in concrete, can be used as ceiling outlet with large tolerance compensation.

Example of an application: Feed of partition walls

The cleats can be combined next to each other and behind each other without using tools. With the combination behind each other, the tolerance range is doubled, the second opening can be closed with the metric sealing plugs (separate accessories). A second conduit inlet is also possible.

DAL universal - outlet cleats



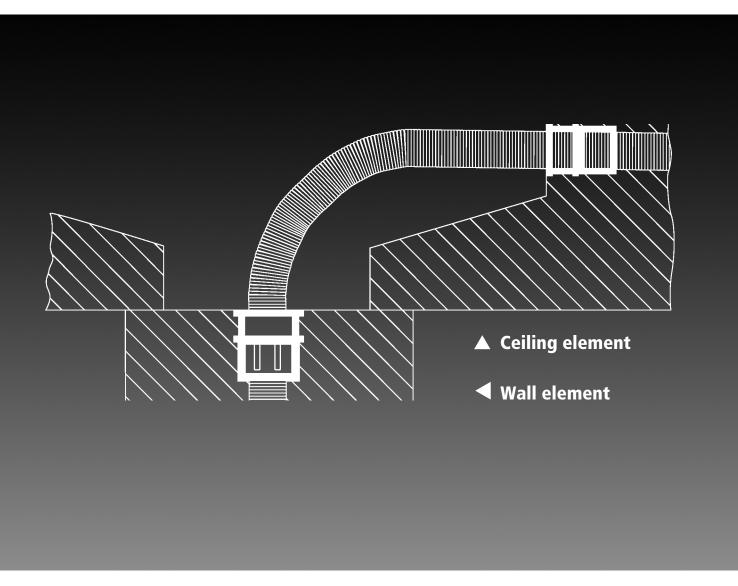
▲ Trouble-free transition of cables out of the ceiling into lightweight construction walls to be created underneath.



Conduit inlets inclined upwards, thus easy conduit routing above the reinforcement.



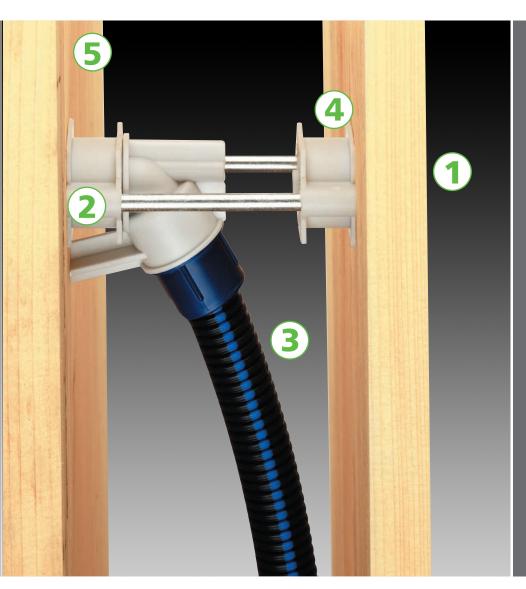
Reliable and fast further processing with conduit coupling.



Conduit ferrule

They are used as connection between the wall and ceiling element in large panel construction. Coupling sleeves are not required.

With the 2-part conduit ferrule, the bottom part is used for fixing on the formwork and the top part for attaching and sealing the conduit. The grooved conduit is strain relieved automatically.



Conduit ferrule and conduit elbows are fitted as follows when used with opposing formwork:

- Fix blind socket (1) on the working formwork
- Assemble bend combination (2)
- Establish the pipe connection (3)
- Knock the support spar (4)
 into the blind socket
 (spar length = wall thickness minus 1 cm)
- Knock the bend combination slightly onto the support spar,

 The opposing formwork (5) ensures for an accurate fixing.

Ceiling outlet

Mounted together, these result in a small conduit bending angle of less than 30°.

Assembly sequence:

- Fasten bottom part
- Open the conduit elbow
- Put on the top part
- Insert the conduit.

After removing the formwork the core of the ferrule is removed. The combination as collar should be used.

As the conduit elbow is equipped with an integrated dowel, if necessary, the ceiling hook (order no. 979 115 01) can convert the combination into a perfect ceiling outlet in no time at all.



Export solutions

Table of Contents

**	B1, B2 equipment installation box	75 - 76
	K0 EK, K15 EK mounting box	77
-	IBTronic Drillbox E	78
-	IBTronic XL H 185 FE	78
	IBT LED E	79

Export solutions

The IBT boxes for international markets have been developed in line with the BS regulation or according to NEMA standard publication.

British Standard

With the types BS1 and BS2, after knocking-out the face of the front wall, the assembly bridges snap in. This automatically results in a fixing dimension of 60.3 mm for BS1 or 120.6 mm for BS2. The assembly bridges remain movable to the sides and thus allow the equipment to be adjusted at a later time.

American Standard

With opposing socket K0 and K15, always take care that 2 blind sockets AS as well as 4 support spars are required per opposing socket. In doing so, the length of the support spars is: wall thickness minus 1cm.

The product range for the installation of American switches and sockets is also matching for Italian, French and Japanese built-in equipment with a screw spacing of 83.5 mm.

Solutions for The Netherlands or similar

These variants differ by a conduitadapter in 19 mm and 16 mm, which are used conventionally for the country.

IBT Export solutions



BS 1 built-in device box

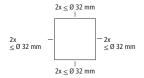
86 x 86 x 60 mm







Equipment installation box, 1-way box for installing "British Standard" equipment; screw spacing 60.3 mm (2 3/8 inch.), with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Accessories supplied:

Earthing screw

Description	Order no.
BS 1 magnet and nail installation, membrane for perforation, Sealing area M16 - M32, support spar compatible	98700101
BS 1-K adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32, support spar compatible	98770101
BS 1-O open front section for special magnetic clip, magnet installation, membrane for perforation, Sealing area M16 - M32, support spar compatible	98790101
Recommended accessories:	Order no.
BS 1-BSK blank base, 86 x 86 x 25 mm	97443101
BS MBR Assembly bridge BS MBR, 2 pcs. required per box	97412001
BS ES-40 Installation screw, 3.5 x 40 mm	97413501
BS ES-50 Installation screw, 3.5 x 50 mm	97415001
BS 1 VD sealing plate, for equipment installation box BS 1, 86 x 86 mm	97410001
BSM 1 Special magnet BS 1, 80 x 80 x 35 mm, extraction force 680 N, for use with article 98790101 BS 1-O, with KO 10 thread	98710001

IBT Export solutions



BS 2 built-in device box

86 x 146 x 60 mm

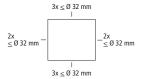








Equipment installation box, 2-way box for installing "British Standard" equipment; screw spacing 120.6 mm (4 3/4 inch.), with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Accessories supplied:

Earthing screw

Description	Order no.
BS 2 magnet and nail installation, membrane for perforation, Sealing area M16 - M32, support spar compatible	98700201
BS 2-K adhesive fixing or nail installation, membrane for perforation, Sealing area M16 - M32, support spar compatible	98770201
BS 2-O open front section for special magnetic clip, magnet installation, membrane for perforation, Sealing area M16 - M32, support spar compatible	98790201
Recommended accessories:	Order no.
BS 2-BSK blank base, 146 x 86 x 25 mm	97443201
BS MBR Assembly bridge BS MBR, 2 pcs. required per box	97412001
BS ES-30 Installation screw, 3.5 x 30 mm	97413001
BS ES-40 Installation screw, 3.5 x 40 mm	97413501
BS ES-50 Installation screw, 3.5 x 50 mm	97415001
BSM 2 Special magnet BS 2, 80 x 140 x 35 mm, extraction force 980 N, for use with article 98790201 BS 2-O, with KO 10 thread	98720001

IBT Export solutions



K0 EK installation box

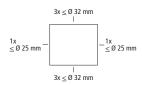
111 x 71 x 61 mm







Mounting box, suitable as a junction box, screw spacing 83.5 mm (3 9/32 inch) and 100 mm, complies with AFI standard, for installing "American Standard 432", equipment per NEMA Publ. NO.OS 1, combinable, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
KO EK magnet and nail installation, membrane for perforation, Sealing area M16 - M25, support spar compatible	97700101
Recommended accessories:	Order no.
KO VD sealing plate	97710001
K0 K15 BL Blank strip, 2 blank cleats per box required	97953201

K15 EK installation box

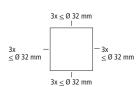
116 x 111 x 61 mm







Mounting box, suitable as a junction box with large terminal space, screw spacing 2 x 83.5 mm (3 9/32 inch) and 1 x 100 mm, complies with AFI standard, for installing "American Standard" equipment acc. to NEMA Publ. NO.OS 1, corresponds to the »''4" square box« for 2 units, combinable, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free



Description	Order no.
K15 EK magnet and nail installation, membrane for perforation, Sealing area M16 - M32, support spar compatible	97700201
Recommended accessories:	Order no.
K15 VD sealing plate	97710501
K0 K15 BL Blank strip, 2 blank cleats per box required	97953201

IBT Export solutions



IBTronic XL E









Enclosure, for prefabricated construction, for the installation of VDE-tested luminaires in accordance with DIN EN 60598 (VDE 0711), and with F-identification or MM-identification, maximum installation depth LV luminaires: 105 mm, HV lights: 110 mm, lamp output max. 50W / LED 25W, with additional connection space, (e.g. for installing an electronic safety transformer up to max. 150 VA), with protection class IPX4, Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
IBTronic XL H 185 FE	97660402
Outlet aperture: Fermacell® plasterboard, variable to max. Ø 150 mm, 8 combi-conduit entries 4 x 16 mm,	
4 x 19 mm, integrated conduit stopper and strain relief for conduits 16 mm, 19 mm, adhesive fixing or nail	

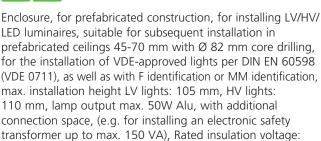
IBTronic XL Drillbox E







installation, integrated conduit adapter, Sealing area M16 - M19



Description	Order no.
IBTronic XL Drillbox E	97680102
Outlet aperture: Ø 76 mm, ORD (Outer Ring Diameter of lights), min. Ø 85 mm, 8 combi-conduit entry points	
4 x 16 mm, 4 x 19 mm integrated conduit stopper and strain relief for conduits 16 mm, 19 mm,	
dowel installation at floor slab, integrated conduit adapter. Sealing area M16 - M19	

IBTronic XL Drillbox 150 E

255 x 280 x 92 mm







400V AC, Halogen free

Enclosure, for prefabricated construction, for installing LV/HV/LED luminaires, suitable for subsequent installation in prefabricated ceilings 45-70 mm with Ø 152 mm core drilling, for the installation of VDE-approved lights per DIN EN 60598 (VDE 0711), as well as with F identification or MM identification, max. installation height LV lights: 105 mm, HV lights: 110 mm, lamp output max. 50W Alu, with additional connection space, (e.g. for installing an electronic safety transformer up to max. 150 VA), Rated insulation voltage: 400V AC, Halogen free

Description	Order no.
IBTronic XL Drillbox 150 E	97680402
Selectable outlet aperture: Fermacell® plasterboard, variable to Ø 100 mm, 8 combi-conduit entries 4 x 16 mm,	
4 x 19 mm, integrated conduit stopper and strain relief for conduits 16 mm, 19 mm, dowel installation at floor	
slab, integrated conduit adapter. Sealing area M16 - M19	

IBT Export solutions



IBTLED 1 E

177 x 200 x 135 mm











Installation housing, for prefabricated construction, halogen-free, for the installation of LV/HV/LED lights and speakers, announcement and call systems, for the installation of VDE-tested lights to DIN EN 60598 (VDE 0711), and with F or MM marking, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free

Description Order no. IBTLED 1 E 98210002

maximum installation depth for luminaires, speakers, announcement and call systems: 100 mm, lamp output LED max. 15 W, lamp output halogen max. 25 W, Outlet aperture: Fermacell® plasterboard, variable to max. 100 mm x 100 mm, 8 combi-conduit entries 4 x 16 mm, 4 x 19 mm, integrated conduit stopper and strain relief for conduits 16 mm, 19 mm, adhesive fixing or nail installation, combination conduit insertion and membrane for perforation, Sealing area M16 - M40

IBTLED 2 E 227 x 250 x 135 mn











Installation housing, for prefabricated construction, halogen-free, for the installation of LV/HV/LED lights and speakers, announcement and call systems, for the installation of VDE-tested lights to DIN EN 60598 (VDE 0711), and with F or MM marking, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free

Description Order no. IBTLED 2 E 98215002

maximum installation depth for luminaires, speakers, announcement and call systems: 100 mm, lamp output halogen max. 50 W, lamp output LED max. 20 W, Outlet aperture: Fermacell® plasterboard, variable to max. 150 mm x 150 mm, 8 combi-conduit entries 4 x 16 mm, 4 x 19 mm, integrated conduit stopper and strain relief for conduits 16 mm, 19 mm, adhesive fixing or nail installation, combination conduit insertion and membrane for perforation, Sealing area M16 - M40

IBTLED 3 E 227 x 400 x 165 mm











Installation housing, for prefabricated construction, halogen-free, for the installation of LV/HV/LED lights and speakers, announcement and call systems, for the installation of VDE-tested lights to DIN EN 60598 (VDE 0711), and with F or MM marking, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free

Description	Order no.	
IBTLED 3 E	98220002	
maximum installation depth for luminaires, speakers, announcement and call syshalogen max. 100 W, lamp output LED max. 47 W, Outlet aperture: Fermacell® p200 x 300 mm, 8 combi-conduit entry points 4 x M16, 4 x M19 integrated cond conduits 16 mm, 19 mm, adhesive fixing or nail installation, combination conduit perforation, Sealing area M16 - M40	plasterboard, variable up to max. uit stopper and strain relief for	

IBT Export solutions



IBTLED 3-f E 227 x 400 x 135 mn





combination conduit insertion and membrane, Sealing area M16 - M40





Installation housing, for prefabricated construction, halogen-free, for the installation of LV/HV/LED lights and speakers, announcement and call systems, for the installation of VDE-tested lights to DIN EN 60598 (VDE 0711), and with F or MM marking, with protection class IP30, Rated insulation voltage: 400V AC, Halogen free

plasterboard, variable to max. 200 mm x 300 mm, 16 combi-conduit entries 8 x 16 mm, 8 x 19 mm, integrated conduit stopper and strain relief for conduits 16 mm, 19 mm, adhesive fixing or nail installation, integrated

Description	Order no.
IBTLED 3-f E NEW	98220202
maximum installation depth for luminaires, speakers, announcement and call systems: 100 mm, lamp output,	
halogen max. 75 W, lamp output LED max. 35 W, additional inserts 4 x to M40, outlet aperture: Fermacell®	

IBT Export solutions / Reference





Reference: HM Prison Berwyn, Wales (Quelle: J. Williams, Precast Concrete Structures Ltd (PCS)



Accessories



Accessories for concrete installation systems

The Spelsberg range includes fastening elements and punching tools as accessories for concrete installation systems. Support spars are available for various wall thicknesses in opposing formwork. The support spars are always used in combination with a blank base or a back-mounted box. For installation boxes, clips or sealing covers are available as accessories.

Accessories IBT

WK clamping block



Connecting terminal, U_i =400V / 690V

Description	Nr. of poles	Order no.
WK 007 KLS-2,5² for WK 007	5	46052501
WK 060 KLS-6² 5x6 mm ² , for K15, K2-, K3-EK boxes	5	46050601
WK 100 KLS-10² 5x10 mm ² , for K15, K3-, K4-EK boxes	5	46051001
WK 160 KLS-16² 5x16 mm ² , for K3-, K4-EK boxes	5	46051601
WK 250 KLS-25² 5x25 mm², for K4-EK boxes	5	46053501

GWB thread bottom M5



Threaded base M5

Description	Order no.
GWB with M5 threaded bushing to take a ceiling hook, converts every U71 junction box to a ceiling socket	97911001

U 71 KP dome



Dome with threaded bush M5, suitable as an attachment for U 71 boxes as well as magnet and adhesive blank bases

Description	Order no.
U 71 KP-M5	97174801
(suitable for series U 71)	

Accessories IBT

Accessories for combinations



Compound nipple as a seal and cable routing duct for a spacing of 71 mm

Description	Order no.
VBN	97921001
(for U 71 receptacle 97104502)	

VD sealing cover



Sealing plate for junction boxes, flame resistant, white

Description	Ø	for cover	Order no.
VD 75 with fixing screws	75	U71, U86, U120	97910001
U 71 VDF with fixing screws	80	U71	97910201
U 86 VDF with fixing screws	90	U86	97910301
VD-67-O NEW for type U 120 GRO-3-O, screw spacing 67mm, with fixing screws	90	U86, U120 GRO-3-O	92510301

HW - sealing cover



Sealing plate for junction boxes, polystyrene, flame resistant, white

Description	Ø	for cover	Order no.
HW VD-60 for type HW 035 / HW 050 / HW 065, screw spacing 60 mm	90	U71	92510101
HW VD-67 for type HW 070, screw spacing 67 mm	90	U86, U120	92510001

BS VD sealing cover



Sealing plate BS, white, flame-retardant, with fixing screws and assembly bridges

Description	Order no.
BS 1 VD sealing plate, for equipment installation box BS 1, 86 x 86 mm	97410001
BS 2 VD sealing plate, for equipment installation box BS 2, 146 x 86 mm	97410201

Accessories IBT

DH ceiling hook



Metal ceiling hook, insulated, with M5 thread for ceiling boxes

Description	Shaft length	for cover	Order no.
DH 65-M5 65 mm	65	U71 KUT-M5	97912001
DH 75-M5 75 mm	75	U 71 KUD-M5	97911701
DH 90-M5 90 mm	90	U 71 KUD-M5	97912201
DH 100-M5 100 mm	100	U 86 DVD-2	97911901
DH 115-M5 115 mm	115	U 120 GRO-3	97912101
DH 135-M5 135 mm	135	U 71 KUT-M5	97912301
DH 125-M5 NEW 125 mm	125	U120 GRO-3-O	97912401

STH support spar



Support spars for various wall thicknesses in opposing formwork, always used in conjunction with blank base or back mounted box, spar length = wall thickness minus 1 cm, 2 support spars per socket, 4 support spars for extreme loads

Other lengths provided on request!

Description	conrete wall thickness	Length	Order no.
STH 70	8	70	97957001
STH 90	10	90	97959001
STH 100	11	100	97960001
STH 110	12	110	97961001
STH 130	14	130	97963001
STH 140	15	140	97964001
STH 150	16	150	97965001
STH 170	18	170	97967001
STH 190	20	190	97969001
STH 230	24	230	97973001
STH 240	25	240	97974001
STH 290	30	290	97979001

Accessories IBT

U 71 blank base BSK



Blank base, base for supporting IBT boxes and boxes in opposing formwork in conjunction with support spars, can be combined via snap-in connection, if fitting the blank base using nails, magnet, adhesive, the fixing points must be plastered subsequently, for fitting:

1. The U 71 boxes in opposing formwork, at a 71 mm spacing. Can also be combined with interconnecting frame for extreme loading. 2. The mounting boxes K3 EK and K4 EK with opposing shuttering with 2 or 4 sockets and 3 support spars each in the corners

Description	Order no.
U 71 BSK-NA height 25 mm for nail fixing	97953001
U 71 BSK-2 height 25 mm for exposed concrete, minimum visibility of the feet	97953002
U 71 BSK-K height 21 mm for adhesive fixing	97953801
U 71 BSK height 21 mm for magnet fixing, magnet hole has to be plastered later	97953901

BL blank strip



Blank cleat for mounting the mounting box K0 EK and the mounting box K15 EK for opposing formwork, 2 pieces are required for each box

Description	Order no.
K0 K15 BL 2 blank cleats per box required	97953201

BS blank base



Blank base BS to support the BS boxes, for opposing formwork in conjunction with support spars

Description	Order no.
BS 1-BSK blank base, 86 x 86 x 25 mm	97443101
BS 2-BSK blank base, 146 x 86 x 25 mm	97443201

Accessories IBT

BSK blank base



Blank base to support the conduit elbows including conduit ferrules, for opposing formwork in conjunction with support spars

Description	Order no.
BSK 1 for conduit ferrules 970 518 01	97050001
BSK 2 for conduit ferrules 970 523 01 / 970 530 01	97050501

Fastening elements for wood / plastic formwork



Fixings for wood / plastic formwork, for site cast concrete or poured concrete construction on wooden formwork, use 2 nails for extreme loading

Description	Order no.
NA-AL aluminium nail, 40 mm, long-ridged	97924201
NA-AL/gl aluminium nail, 40 mm, smooth	97924301

Fastening elements for steel formwork



Fixings for steel formwork

Description	Order no.
NAS-AL spreader nail, aluminium 40 mm, with plastic plug for fixing the boxes on the steel	97924001
formwork (drilled hole 5.5 mm), perfect fit for tunnel formwork HM-UNI magnetic clamps, 50 mm Ø, extra strong, pull-off strength 300 +/- 20 N=30 kp	97929901
MA magnetic lifter for dismounting the magnetic clamps HM and HM-UNI, 2-part	97930001
BSM 1 Special magnet BS 1, 80 x 80 x 35 mm, extraction force 680 N, for use with article 98790101 BS 1-O, with KO 10 thread	98710001
BSM 2 Special magnet BS 2, 80 x 140 x 35 mm, extraction force 980 N, for use with article 98790201 BS 2-O, with KO 10 thread	98720001

Accessories IBT

RVB conduit coupling



Conduit coupling (without conduit) with strain relief, grey, for flexible metric electrical installation conduits

Description	Order no.
RVB 20 for long-ridged pipes M20	97022001
RVB 25 for long-ridged pipes M25	97022501
RVB 32 for long-ridged pipes M32	97023201
RVB 40 for long-ridged pipes M40	97024001

IBT LZA punching pliers



Hand hole punch, punching tool for making precision fit entries in concrete boxes, perforation always 1 - 3 mm smaller than the conduit / conductor diameter

Description	Order no.
IBT LZA-OE without punch set	97810001
IBT LZA-18 with 18 mm punch set for pipe M20	97811801
IBT LZA-23 with 23 mm punch set for pipe M25	97812301

WED expansion mandrel



Expansion mandrel, assembly tool when inserting conduit

Description	Order no.
WED	97915501
expansion range 9 - 25 mm Ø	

Accessories IBT

Punch sets



Punch sets as replacements or where expansion is required for IBT LZA hand hole punch

Description	Ø	for conduits Ø	Order no.
IBT STE-LZA/14	14	16	97891401
IBT STE-LZA/18	18	20	97891801
IBT STE-LZA/23	23	25	97892301

Punch sets



Punch sets for LST hole punch

Description	Ø	for conduits Ø	Order no.
IBT STE-LST/14	14	16	97881401
IBT STE-LST/18	18	20	97881801
IBT STE-LST/23	23	25	97882301
IBT STE-LST/30	30	32	97883001
IBT STE-LST/39	39	40	97883901

Accessories IBT

Accessories for combinations



Interconnection frames for the combination of boxes under extreme loading

Description	Order no.
VB 71 for a spacing 71 mm	97921201
VB 80/85 for a spacing 80 and 85 mm	97921301
VB 90 for a spacing 90 mm	97921401
VB 105 for a spacing 105 mm	97921501
VCBS Connector clips for attachment of BS boxes	98791101

Hole cutter



Hole cutter

Description	Order no.
LFR	19599501
through opening: M16-32, drill hole: 16.5-32.5 mm	

Technical Informationen

Table of Contents

Pictograms Concrete installation	92
Properties of IBT / IBTronic products	92
Explanation of terms	
Large-panel construction	93
In-place and heaped concrete construction method	93
Work formwork	93
Opposing formwork	93
Overview on the properties of the materials used in the IBT products	
Protection classes of electric operating equipment	94
Routing of cables in concrete	94
Rooms with bath tub or shower as per DIN VDE 0100-701	95
Classification code for conduits as per DIN EN 61386; Appendix A	96
Dimensional drawings of the IBT products	
IBT Precon	97
IBT ceiling and equipment junction boxes	100
BS1, BS2 equipment installation box (British Standard)	102
Wall and ceiling transitions	104
IBTronic XL	105
IBTronic H 120	106
IBTronic TT 120	108

Technical Informationen



Protection class (IP-Code) as per DIN EN 60529 (VDE 0470-1)



Products for the use in concrete construction as per DIN VDE 0606-1



Suitable for the use in concrete.

Resistant to short-term temperatures up to +90°C during the curing process.



Suitable for LED lamps



Suitable for the installation of lamps in which cold-light mirror lamps (cool-beam reflectors) can be installed. They reduce the thermal load in the light beam.



Halogen-free enclosure, without halogens such as fluorine, chlorine and bromine



The **VDE** mark stands for approved safety of the product referring electrical, mechanical, thermal and other hazards.

Pictograms | Concrete installation

	Em	Empty enclosure Enclosure with fittings								
Overview of the ambient conditions and mechanical properties of the IBT products	Ambient temperature Minimum value	Ambient temperature Maximum value	Ambient temperature Average value over 24 h	Ambient temperature Minimum value	Ambient temperature Maximum value	Ambient temperature Average value over 24 h	Max. relative humidity at 40 °C	Max. relative humidity at 25 °C (short-term)	Protection rating according to DIN EN 60529 / VDE 0470-11)	Shock-proof as per DIN EN 50102 / DE 0470 Part 100
IBT / IBTronic concrete installation system	-25°C	40°C	35°C	-25°C	35°C	25°C	50%	k.A.	IP30	k.A.

Additional note: The specified temperatures may be limited by the installed devices.

¹⁾ When used with suitable connectors or cable screw couplings

1. Large-panel construction

means the industrial production of wall and ceiling elements in the concrete plant and is carried out by pouring the concrete in formworks when laying down (horizontal) or standing upright (vertical) (battery moulds, vibration and tilting tables, etc.). The precast concrete elements are transported to the construction site and assembled there. The construction of the partial prefabricated ceilings (filigree floor) saves the slab formwork on site. The installation sockets U86 and U12, for instance, are inserted in the filigree floors. They protrude beyond the ceiling slab and are provided with installation conduits on-site at the construction site. After that, concrete is grouted in until the full height is reached.

2. In-place or heaped concrete construction method are individual installations on site

In doing so, a difference is made between laying (e.g. slab formwork) with only one formwork side and standing formwork with two formwork sides (work formwork with opposing formwork).

Working formwork

Ideal, because the installation of sockets and boxes on the first, already standing formwork (working formwork) can be done easily and fast. After the system has been connected to the conduits and the steel reinforcement has been inserted, the second form (opposing formwork) is put to wall distance. After concrete has been grouted and has cured, the working formwork is removed and with this, the front side of the sockets and boxes is separated. Now the insertion devices (switches and sockets) can be mounted.

Backing formwork

If sockets and boxes are installed opposite the already existing formwork, this is called opposing formwork. For this purpose, first the blank bases are mounted on the working formwork; then, the sockets and boxes are put to wall distance using the support beams. In doing so, the support spar length is always "wall thickness minus 1 cm", independent which sockets or boxes are used! Only the wall thickness determines the length of the support beams! The necessary stability of the system is achieved by the pressure that is applied by the formwork "moving against it".

Caution:

The residence time of the formwork necessary for curing the concrete must be met!

Overview propertie materials IBT produ	es of the used in the	Weak acids	Strong acids	Weak bases	Strong bases	Alcohol	Petrol	Benzene	Mineral oil	Diesel	Ammonia	Vegetable fats	Animal fats	Halogen-free	Free of heavy metals, PVC and silicone	Flammability according to VDE 0471 / EN 60695 / UL 94
Polystyrene, impact proof	UP 015 distributor set End cover K	•	D	•	•	•	8	8	D	8	•	•	D	nein	ja	960°C / V-2
Polypropylene	IBT sockets + boxes IBTronic, IBTronic-TT, IBTronic XL, IBTronic XL Drillbox, IBTronic XL Drillbox 150, Precon, IBTLED	•	•	•	•	•	Þ	•	•	•	•	•	•	ja	ja	650°C / HB
Polycarbonate	conduit adapter	•	8	8	8	•	•	8	•)	•	•		ja	ja	960°C / V-2

= resistant

Technical Informationen

Protection classes of electric operating equipment

This classification does not serve to express the safety level of the operating equipment. It is only a statement about the measures that are used to achieve the safety. Operating equipment of protection class I are operating equipment where the protection against electric shock is not only based on the basic insulation (protection against direct contact), but as additional protective measures for the case of failure of the electrically conductive parts in the enclosure and the enclosure parts connected to the system installation with the earthing conductor. In case of a failure of the basic insulation, no voltage may remain present on the enclosure and the protective equipment trips.

Operating equipment of protection class II are operating equipment where the protection against electric shock is not only based on the basic insulation, but where an additional double or reinforced insulation is present in case of failure. For enclosures of protection class II, it is not allowed to lead conductive parts (e.g. fixing screws) through the double or reinforced insulation, through which a potential can be transferred. Enclosures of protection class II do not have a connecting possibility for an earthing conductor. Operating equipment of protection class III are operating equipment where the protection against electric shock is based on safety extra low voltage (SELV1) and in which voltage cannot be generated that is higher than the safety extra low voltage.

All Spelsberg empty enclosures made of plastic correspond with the protection class II enclosure made of metal / metal coating are intended for the connection of an earthing conductor and comply with protection class I.

1) SELV = (Safety Extra Low Voltage)



Protection class I

(Symbolizes only the earthing, protection class I does not have its own symbol)



Protection class II



Protection class III

According to DIN EN 61140 (VDE 0140-1), operating equipment are allocated to protection classes according to their structure.

Routing of cables in concrete

The line casing NYM frequently used may be routed in concrete. An exception is the use in shaking, vibrating and compressed concrete. The power cable NYY however may be used unrestricted in concrete as per VDE 0276 if much higher minimum bending radii are observed compared to NYM.

Spelsberg recommends routing the cables within protective conduits. The enclosure is equipped with respective mountings.



Rooms with bath tub or shower as per DIN VDE 0100-701

Important protective requirements:

The following switchgear, control units and installation equipment are allowed in the areas:

Area 0 - none

Area 1

Junction boxes and connecting sockets for the supply of electric consumers which are permitted in the areas 0 and 1 as per 701.55;

- Installation equipment, including sockets of current circuits that are protected by low voltage by means of SELV¹ or PELV² with a rated voltage that does not exceed AC 25 V or DC 60 V. The power must have been reached outside the areas 0 and 1.

Area 2

Installation equipment, except sockets;

- Installation equipment, including sockets of current circuits that are protected by low voltage by means of SELV¹ or PELV².

The power must have been reached outside the areas 0 and 1.

- Electric shaver socket units as per DIN EN 61558-2-5 (VDE 0570-2-5);
- Installation equipment, including sockets for operating equipment of the signal and communication technology, provided that such operating equipment are protected by low voltage by means of SELV¹ or PELV¹.

Electric operating equipment must have the following minimum protection class:

in area 0: IPX7;

in area 1: IPX4;

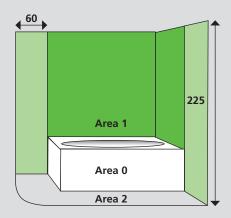
in area 2: IPX4.

These requirements do not apply for electric shaver socket units as per DIN EN 61558-2-5 (VDE 0570-2-5), that have been setup in area 2 and being sprayed directly during showering is improbable.

Electric operating equipment that are exposed to splash water are, e.g. for cleaning purposes in public swimming pools, protection class IPX5 must at least apply in areas 1 and 2.

Particularly suitable: Abox-i, AK Air small distribution board, AKi and GTi enclosure system.

- 1) SELV = Safety Extra Low Voltage
- 2) PELV = Protective Extra Low Voltage



Technical Informationen

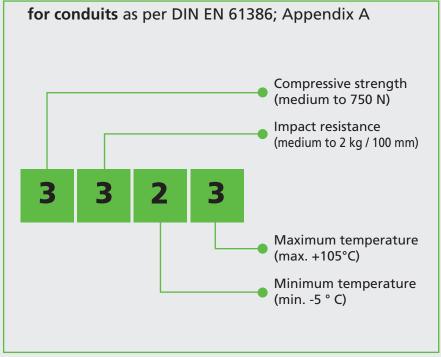
IBT - sockets and boxes are equally suitable for smooth and grooved installation conduits.

DIN EN 61386 applies for this purpose. The nominal widths have the following gradations (as per DIN/EN 60423) in mm: EN 16, EN 20, EN 25, EN 32, EN 40, EN 50, and EN 63

With these new standards, the designations also change: from the former letter identification (e.g. "AS" severe pressure loading), a numeric code has resulted with at least 4 digits from which the most important properties of the product can be read, such as compressive strength, impact resistance as well as the lower and upper service temperature.

A conduit with the following code would be suitable for installation in concrete:

Classification code



First digit: compr	essive strength			
1 = very easy	2 = easy	3 = medium	4 = difficult	5 = very difficult
125 N	320 N	750 N	1250 N	4000 N

Second digit: impact resistance (drop energy)						
	1 = very easy	2 = easy	3 = medium	4 = difficult	5 = very difficult	
	0.5kg/100 mm	1kg/100 mm	2kg/100 mm	2kg/300 mm	6.8kg/300 mm	

Third digit: minimum temperature range for transport, use and installation						
1 = + 5°C	2 = - 5°C	3 = - 15°C	4 = - 25°C	5 = - 45°C		

Fourth digit: highest temperature range for transport, use and installation						
1 = + 60°C	2 = +90°C	3 = +105°C	4 = +120°C	5 = +150°C		

Additional information is also available, e.g from the conduit manufacturers.

Fränkische Rohrwerke, Gebr. Kirchner GmbH & Co. KG

Hellinger Str. 1, 97486 Königsberg/Bayern, Telephone: +49 (0) 95 25 / 88-0

Hegler Plastik GmbH

Hegler Str. 8, 97714 Oerlenbach, Telephone: +49 (0) 97 25 / 66-0

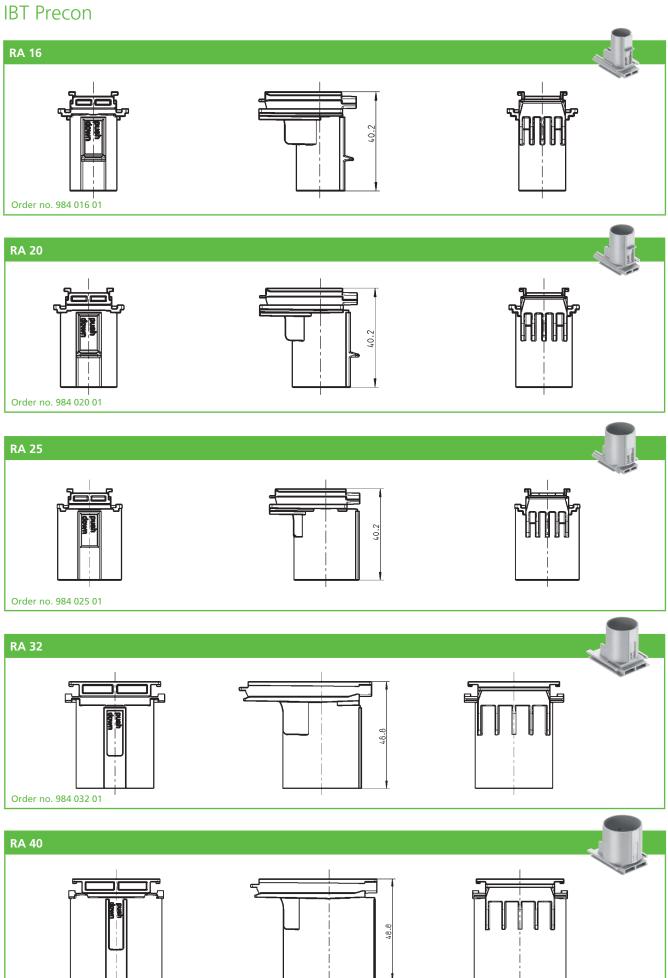
Pipelife Deutschland GmbH

Steinfeld 40, 26160 Bad Zwischenahn, Telephone: +49 (0) 44 03 / 6 05-0

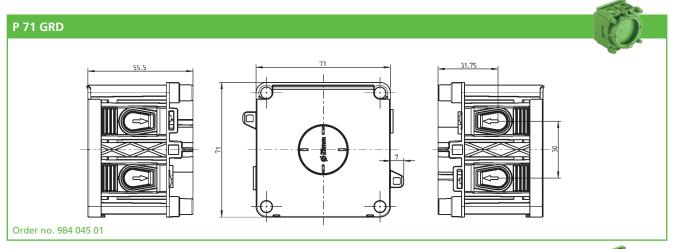
Pipelife Austria GmbH & Co. KG

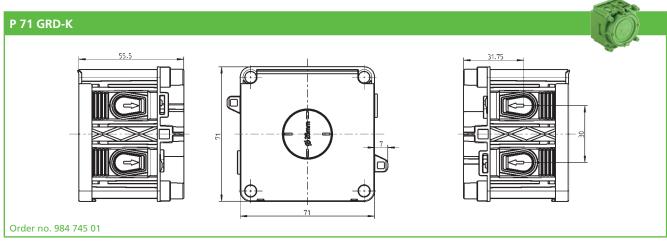
IZ NO-Süd, Straße 1, A-2355 Wiener Neudorf, Telephone: +43 (0) 2236 / 6702-0

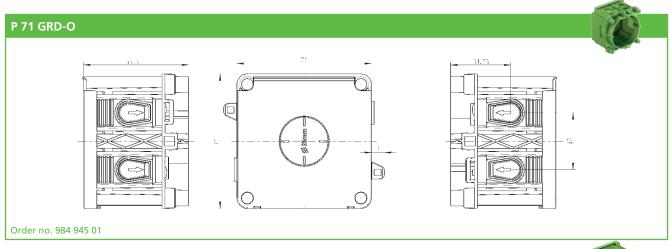
Order no. 984 040 01

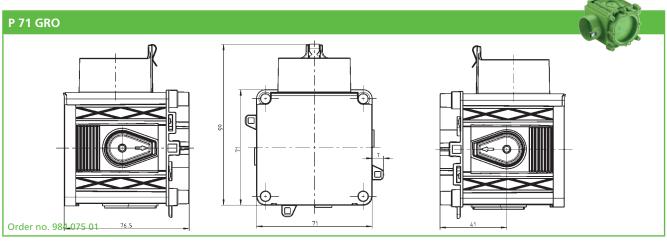


IBT Precon

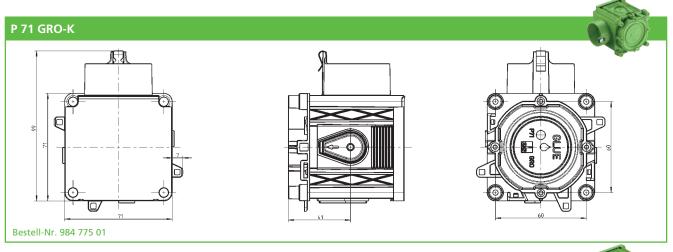


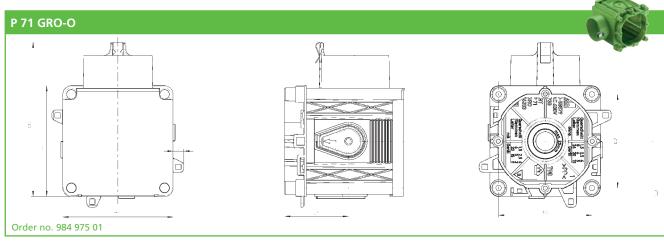


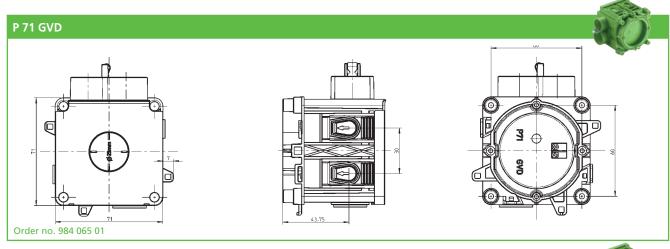


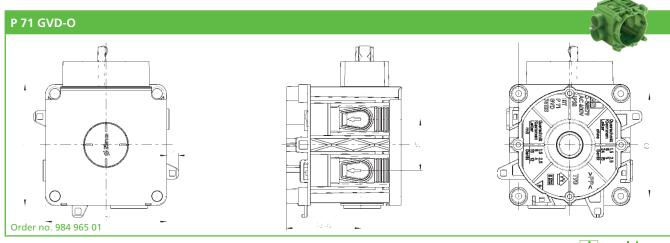


IBT Precon

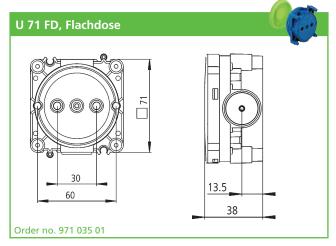


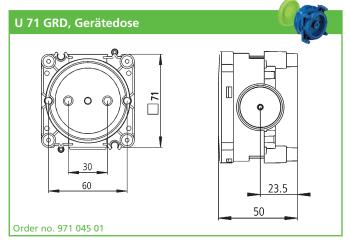


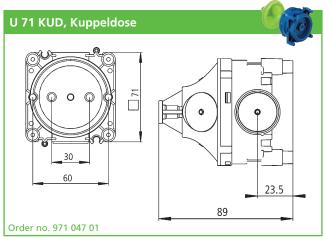


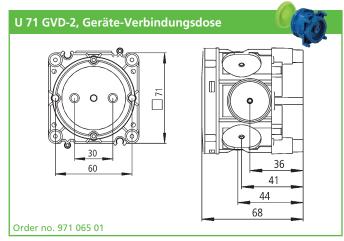


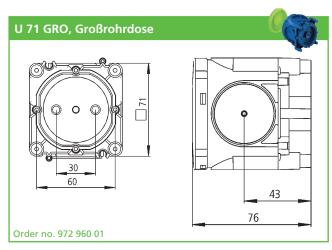
IBT ceiling boxes and equipment junction boxes

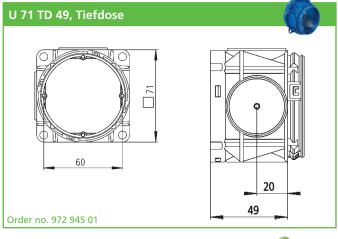


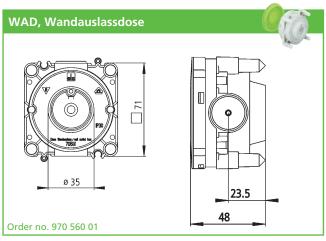


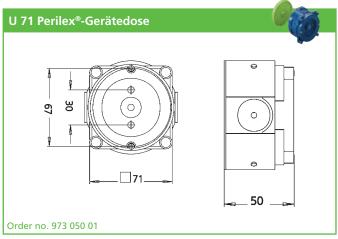




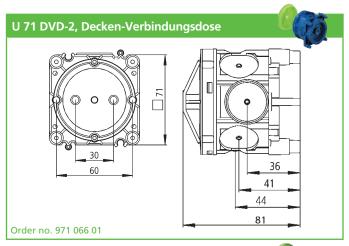


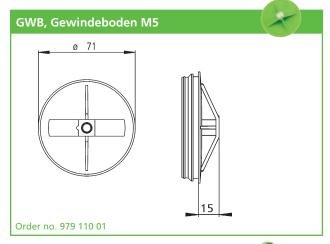


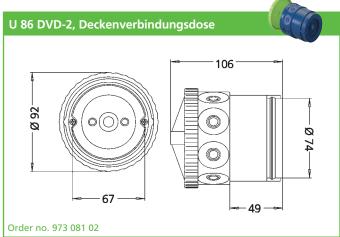


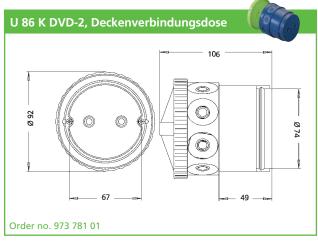


IBT ceiling boxes and equipment junction boxes



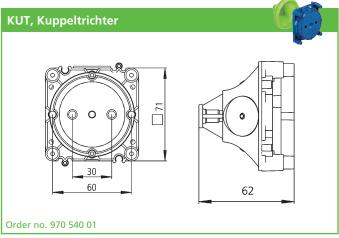


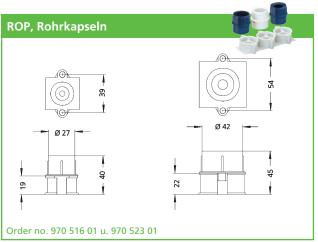




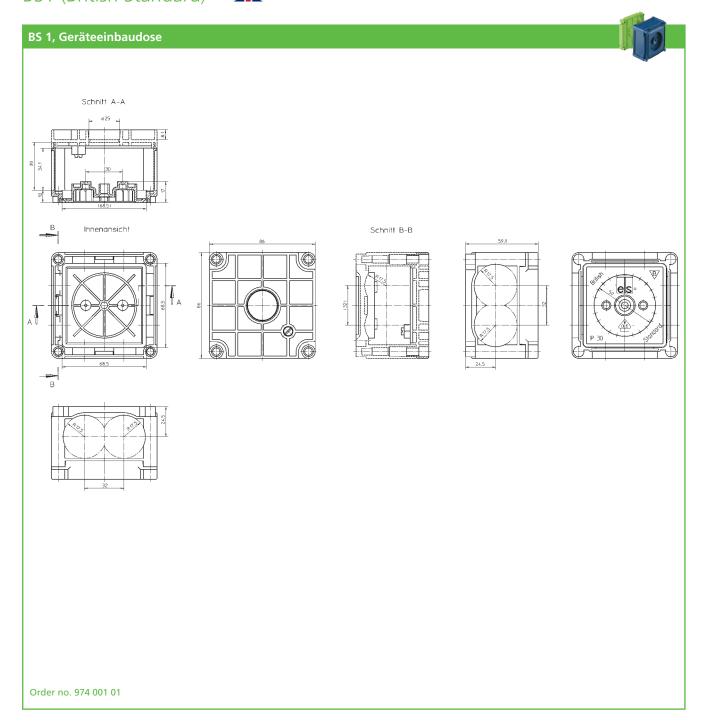




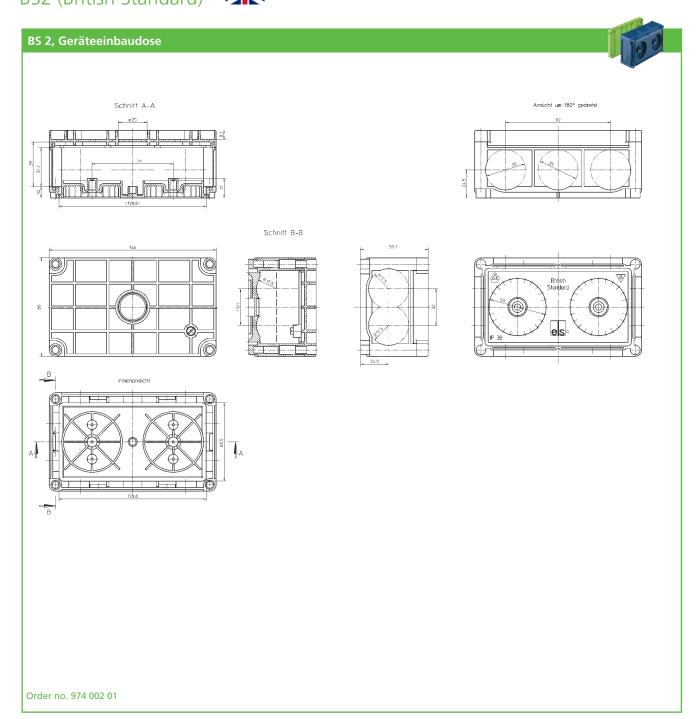




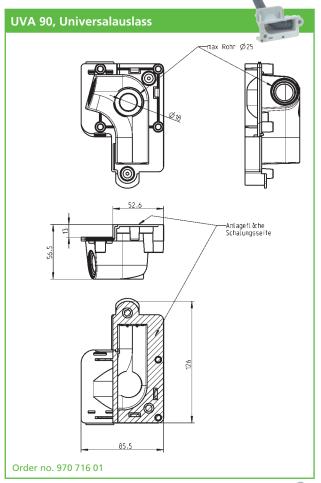
Dimensional DrawingsBS1 (British Standard)



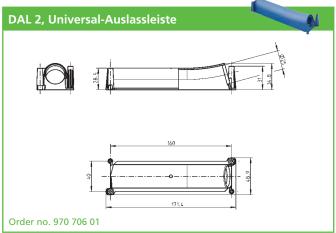
Dimensional DrawingsBS2 (British Standard)

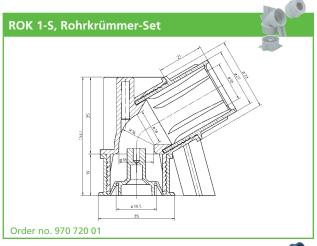


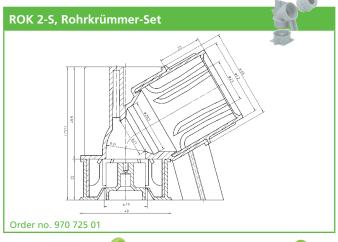
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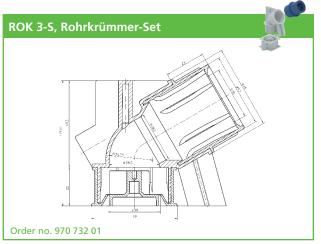


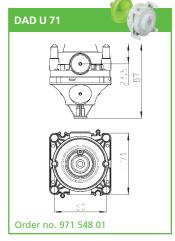


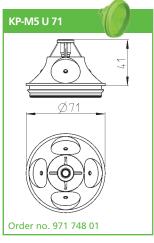




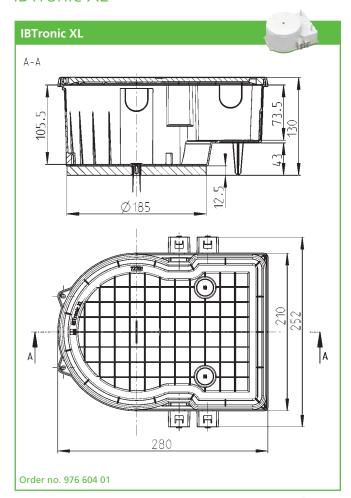


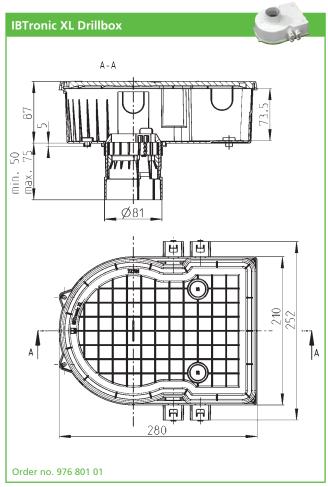


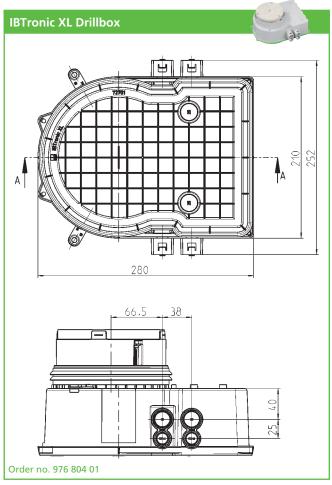


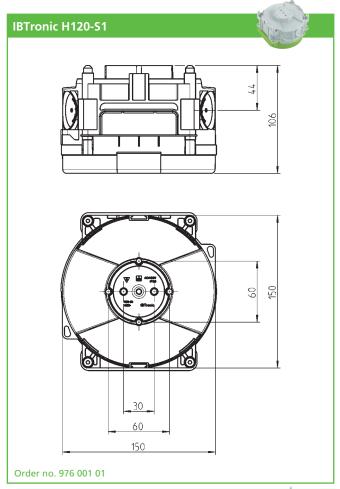


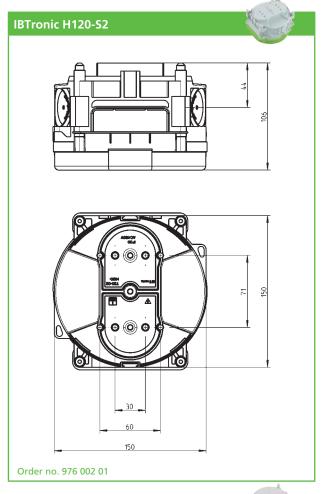
IBTronic XL

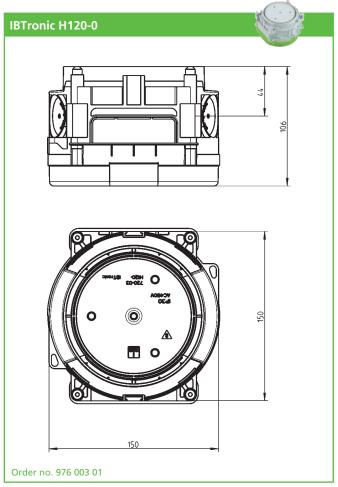


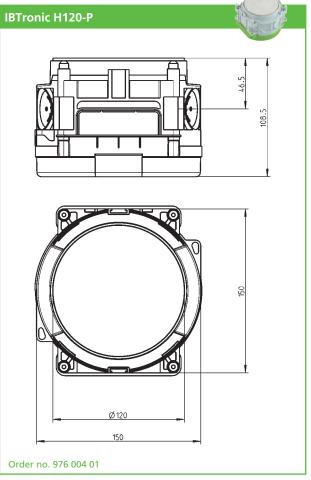


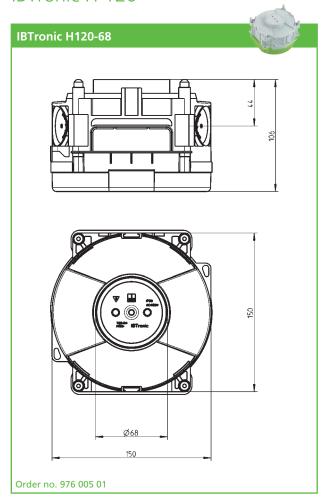


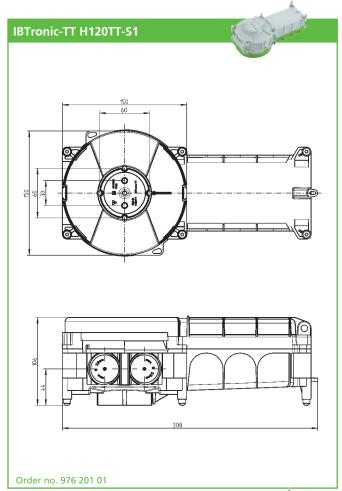


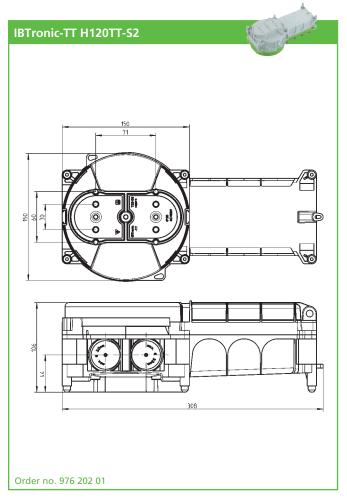


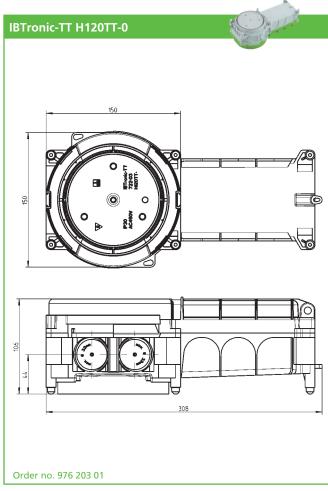


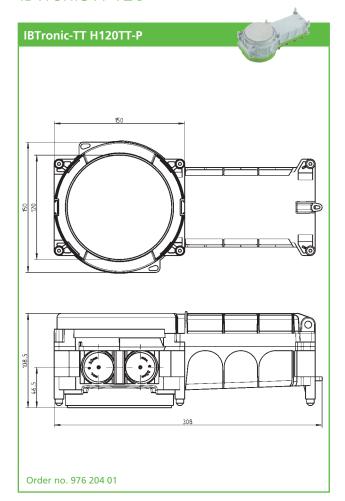


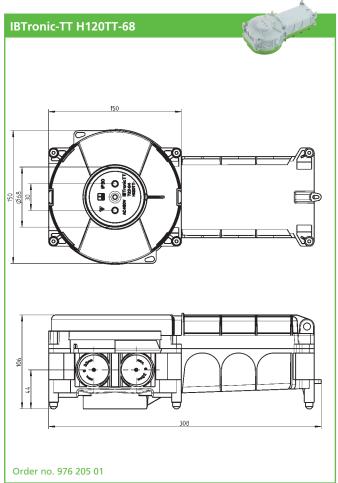












Index of Order Numbers

Sorted by order numbers

19599501 LFR Stepped drill 600 46050601 WK 060 KLS-6² Terminal block 140 46051001 WK 100 KLS-10² Terminal block 140 46051601 WK 160 KLS-16² Terminal block 140 46052501 WK 007 KLS-2,5² Terminal block 140 46053501 WK 250 KLS-25² Terminal block 140 92510301 VD-67-O sealing plate 520 97016001 U 71 BWD WAD-35 Reinforcement box 520 97022001 RVB 20 Conduit coupling 520 97022501 RVB 25 Conduit coupling 520 97023201 RVB 32 Conduit coupling 520	90 83 83 83 83 83 84 44
46051001 WK 100 KLS-10² Terminal block 140 46051601 WK 160 KLS-16² Terminal block 140 46052501 WK 007 KLS-2,5² Terminal block 140 46053501 WK 250 KLS-25² Terminal block 140 92510301 VD-67-O sealing plate 520 97016001 U 71 BWD WAD-35 Reinforcement box 520 97022001 RVB 20 Conduit coupling 520 97022501 RVB 25 Conduit coupling 520	83 83 83 83 84
46051601 WK 160 KLS-16² Terminal block 140 46052501 WK 007 KLS-2,5² Terminal block 140 46053501 WK 250 KLS-25² Terminal block 140 92510301 VD-67-0 sealing plate 520 97016001 U 71 BWD WAD-35 Reinforcement box 520 97022001 RVB 20 Conduit coupling 520 97022501 RVB 25 Conduit coupling 520	83 83 83 84
46052501 WK 007 KLS-2,5² Terminal block 140 46053501 WK 250 KLS-25² Terminal block 140 92510301 VD-67-O sealing plate 520 97016001 U 71 BWD WAD-35 Reinforcement box 520 97022001 RVB 20 Conduit coupling 520 97022501 RVB 25 Conduit coupling 520	83 83 84
46053501 WK 250 KLS-25² Terminal block 140 92510301 VD-67-O sealing plate 520 97016001 U 71 BWD WAD-35 Reinforcement box 520 97022001 RVB 20 Conduit coupling 520 97022501 RVB 25 Conduit coupling 520	83 84
46053501 WK 250 KLS-25² Terminal block 140 92510301 VD-67-O sealing plate 520 97016001 U 71 BWD WAD-35 Reinforcement box 520 97022001 RVB 20 Conduit coupling 520 97022501 RVB 25 Conduit coupling 520	84
97016001 U 71 BWD WAD-35 Reinforcement box 520 97022001 RVB 20 Conduit coupling 520 97022501 RVB 25 Conduit coupling 520	
97016001 U 71 BWD WAD-35 Reinforcement box 520 97022001 RVB 20 Conduit coupling 520 97022501 RVB 25 Conduit coupling 520	44
97022001 RVB 20 Conduit coupling 520 97022501 RVB 25 Conduit coupling 520	
97022501 RVB 25 Conduit coupling 520	88
3	88
7/1/2 / 1/11 DVD 3/ CUIUUII CUIUIIIU 3/U	88
97024001 RVB 40 Conduit coupling 520	88
97042501 ROK 20 Conduit elbow 520	65
97043001 ROK 25 Conduit elbow 520	65
97043501 ROK 32 Conduit elbow 520	65
97050001 BSK 1 blank base 520	87
97050501 BSK 2 blank base 520	87
97051801 ROP 20 Conduit ferrule 520	65
97052301 ROP 25 Conduit ferrule 520	65
97053001 ROP 32 Conduit ferrule 520	65
97053701 ROP 40 Conduit ferrule 520	65
97054001 U 71 KUT Dome funnel 520	69
97055001 KUK Dome box 520	68
97056001 WAD Wall outlet socket 520	49
97056201 WAD VD Wall outlet socket 520	49
97061801 KOT 20 Cone funnel 520	67
97062301 KOT 25 Cone funnel 520	67
97063001 KOT 32 Cone funnel 520	67
97063701 KOT 40 Cone funnel 520	67
97069001 VBK Junction boxes 520	68
97070401 DAL 4 Universal outlet cleats 520	67
97070501 DAL 1 Universal outlet cleats 520	67
97070601 DAL 2 Universal outlet cleats 520	67
97071601 UVA 90 Universal outlet 520	66
97072001 ROK 20 S Conduit elbow set 520	66
97072501 ROK 25 S Conduit elbow set 520	66
97073201 ROK 32 S Conduit elbow set 520	66
97103501 U 71 FD Flat box 520	48
97104501 U 71 GRD Receptacle 520	48
97104701 U 71 KUD Dome box 520	50
97106501 U 71 GVD-2 Branch socket 520	48
97106601 U 71 DVD-2 Ceiling junction box 520	23
97106601 U 71 DVD-2 Ceiling junction box 520	54
97116501 U 71 BWD GVD-2-60 Reinforcement box 520	44
97124801 U 71 KUD-M5 Dome box 520	50
97136501 U 71 GVD-3 Branch socket 520	49
97154801 U 71 DAD Ceiling luminaire junction box 520	22
97154801 U 71 DAD Ceiling luminaire junction box 520	53
97174501 U 71 K GRD Receptacle 520	48
97174801 U 71 KP-M5 Dome 520	83
97176501 U 71 K GVD-2 Branch socket 520	48
97176601 U 71 K DVD-2 Ceiling junction box 520	23
97176601 U 71 K DVD-2 Ceiling junction box 520	54
97186501 U 71 K GVD-3 Branch socket 520	49
97186601 U 71 K DVD-3 Ceiling junction box 520	23
97186601 U 71 K DVD-3 Ceiling junction box 520	54
97276001 U 71 K GRO Large conduit box 520	49

Order No.	Description	DG	Page
97277001	U 71 DGR Large conduit box	520	23
97277001	U 71 DGR Large conduit box	520	53
97292501	U 71 TD-44 Deep box	520	50
97294501	U 71 TD-49 Deep box	520	51
97296001	U 71 GRO Large conduit box	520	49
97305001	U 71 Perilex Receptacle	520	50
97308102	U 86 DVD-2 Ceiling junction box	520	21
97308102	U 86 DVD-2 Ceiling junction box	520	51
97331201	U 120 GRO-3 Large conduit box	520	21
97331201	U 120 GRO-3 Large conduit box	520	52
97371201	U 120 K GRO-2 Large conduit box	520	21
97371201	U 120 K GRO-2 Large conduit box	520	52
97371301	U 120 K GRO-3 Large conduit box	520	21
97371301	U 120 K GRO-3 Large conduit box	520	52
97371401	U 120 GRO-3-O Large conduit box	520	22
97371401	U 120 GRO-3-O Large conduit box	520	52
97378101	U 86 K DVD-2 Ceiling junction box	520	21
97378101		520	51
97378301	U 86 K DVD-2 Ceiling junction box	520	21
97378301	U 86 K DVD-3 Ceiling junction box	520	51
	U 86 K DVD-3 Ceiling junction box		
97410001 97410201	BS 1 VD sealing plate	520	84
	BS 2 VD sealing plate	520	84
97443101	BS 1-BSK blank base	520	86
97443201	BS 2-BSK blank base	520	86
97600101	IBTronic H120-S1 Installation housing	520	31
97600201	IBTronic H120-S2 Installation housing	520	31
97600301	IBTronic H120-0 Installation housing	520	31
97600401	IBTronic H120-P Installation housing	520	31
97600501	IBTronic H120-68 Installation housing	520	31
97610301	IBTronic H120-S1-0 Installation housing	520	32
97610401	IBTronic H120-P-O Installation housing	520	32
97620101 97620201	IBTronic H120TT-S1 Installation housing	520 520	33
97620201	IBTronic H120TT-S2 Installation housing	520	33
	IBTronic H120TT-0 Installation housing	520	33
97620401	IBTronic H120TT-P Installation housing		
97620501	IBTronic H120TT-68 Installation housing	520	33
97660401	IBTronic XL H 185 F Enclosure	520	29
97660402	IBTronic XL H 185 FE Enclosure IBTronic XL Drillbox Enclosure	520	78
97680101		520	62
97680102	IBTronic XL Drillbox E Enclosure	520	78
97680401	IBTronic XL Drillbox 150 Enclosure	520	63
97680402	IBTronic XL Drillbox 150 E Enclosure	520	78
97700101	K0 EK Mounting box	520	55
97700101	K0 EK Mounting box	520	77
97700201	K15 EK Mounting box	520	55
97700201	K15 EK Mounting box	520	77
97710001	K0 VD sealing plate	520	84
97710501	K15 VD sealing plate	520	84
97810001	IBT LZA-0E Hole punch	520	88
97811801	IBT LZA-18 Hole punch	520	88
97812301	IBT LZA-23 Hole punch	520	88
97881401	IBT STE-LST/14 Punch set	520	89
97881801	IBT STE-LST/18 Punch set	520	89
97882301	IBT STE-LST/23 Punch set	520	89
97883001	IBT STE-LST/30 Punch set	520	89
97883901	IBT STE-LST/39 Punch set	520	89
97891401	IBT STE-LZA/14 Punch set	520	88

Order No.	Description	DG	Page
97891801	IBT STE-LZA/18 Punch set	520	88
97892301	IBT STE-LZA/23 Punch set	520	88
97910001	VD 75 sealing plate	520	84
97910201	U 71 VDF sealing plate	520	84
97910301	U 86 VDF sealing plate	520	84
97911001	GWB Thread bottom	520	83
97911701	DH 75-M5 ceiling hook	520	85
97911901	DH 100-M5 ceiling hook	520	85
97912001	DH 65-M5 ceiling hook	520	85
97912101	DH 115-M5 ceiling hook	520	85
97912201	DH 90-M5 ceiling hook	520	85
97912301	DH 135-M5 ceiling hook	520	85
97912401	DH 125-M5 ceiling hook	520	85
97915501	WED Expansion mandrel	520	88
97916201	LST Hand hole punching tool	520	89
97921001	VBN Compound nipple	520	84
97921201	VB 71	520	90
97921301	VB 80/85	520	90
97921401	VB 90	520	90
97921501	VB 105	520	90
97924001	NAS-AL	520	87
97924201	NA-AL	520	87
97924301	NA-AL/ql	520	87
97929901	HM-UNI	520	87
97930001	MA	520	87
97933001	IBT BWA Reinforcement adapter	520	44
97953001	U 71 BSK-NA blank base	520	86
97953001	U 71 BSK-1NA blank base	520	86
97953201	KO K15 BL Blank strip	520	86
97953801	U 71 BSK-K blank base	520	86
97953901	U 71 BSK blank base	520	86
97957001	STH 70 Support spar	520	85
97959001	STH 90 Support spar	520	85
97960001	STH 100 Support spar	520	85
97961001	STH 110 Support spar	520	85
97963001	STH 130 Support spar	520	85
97964001	STH 140 Support spar	520	85
97965001	STH 150 Support spar	520	85
97967001	STH 170 Support spar	520	85
97969001	STH 190 Support spar	520	85
97973001	STH 230 Support spar	520	85
97974001	STH 240 Support spar	520	85
97979001	STH 290 Support spar	520	85
97980301	LMK 76 Luminaire assembly kit	520	62
98000201	K3 EK Mounting box	520	56
98000401	K4 EK Mounting box	520	56
98000501	K4-H EK Universal mounting enclosure	520	57
98000601	K4-H-P EK Universal mounting enclosure	520	57
98010001	K3 VD sealing plate	520	84
98010401	K4 VD sealing plate	520	84
98206801	FT68R Front part	520	27
98207501	FT75R Front part	520	27
98210001	IBTLED 1 Installation housing	520	26
98210002	IBTLED 1 E Installation housing	520	79
98210101	IBTLED 1-0 Installation housing	520	27
98211001	FTF1 Front part	520	27
98215001	IBTLED 2 Installation housing	520	26
		.=.	

Order No.	Description	DG	Page
98215002	IBTLED 2 E Installation housing	520	79
98220001	IBTLED 3 Installation housing	520	26
98220002	IBTLED 3 E Installation housing	520	79
98220201	IBTLED 3-f Installation housing	520	27
98220202	IBTLED 3-f E Installation housing	520	80
98401601	RA 16 Conduit adapter	520	17
98402001	RA 20 Conduit adapter	520	17
98402501	RA 25 Conduit adapter	520	17
98403201	RA 32 Conduit adapter	520	17
98404001	RA 40 Conduit adapter	520	17
98404501	P 71 GRD Receptacle	520	16
98406501	P 71 GVD Branch socket	520	16
98406601	P 71 GVD 2xM25 Branch socket	520	17
98406701	P 71 DATA equipment junction box	520	19
98407501	P 71 GRO Large conduit box	520	17
98474501	P 71 GRD-K Receptacle	520	16
98476501	P 71 GVD-K Branch socket	520	16
98476601	P 71 GVD-K 2xM25 Branch socket	520	17
98476701	P 71 DATA -K equipment junction box	520	19
98477501	P 71 GRO-K Large conduit box	520	17
98494501	P 71 GRD-O Receptacle	520	16
98496501	P 71 GVD-O Branch socket	520	16
98496601	P 71 GVD-O 2xM25 Branch socket	520	17
98496701	P 71 DATA -O equipment junction box	520	19
98497501	P 71 GRO-O Large conduit box	520	17
98600001	UP 015 Distributor kit	520	57
98700101	BS 1 Equipment installation box	520	75
98700201	BS 2 Equipment installation box	520	76
98710001	BSM 1 Special magnetic	520	87
98720001	BSM 2 Special magnetic	520	87
98770101	BS 1-K Equipment installation box	520	75
98770201	BS 2-K Equipment installation box	520	76
98790101	BS 1-O Equipment installation box	520	75
98790201	BS 2-O Equipment installation box	520	76
98791101	VCBS Connector clips	520	90

Index of Order Numbers

Sorted by product name

Description	Order No.	DG	Page
BS 1 Equipment installation box	98700101	520	75
BS 1 VD sealing plate	97410001	520	84
BS 1-BSK blank base	97443101	520	86
BS 1-K Equipment installation box	98770101	520	75
BS 1-0 Equipment installation box	98790101	520	75
BS 2 Equipment installation box	98700201	520	76
BS 2 VD sealing plate	97410201	520	84
BS 2-BSK blank base	97443201	520	86
BS 2-K Equipment installation box	98770201	520	76
BS 2-O Equipment installation box	98790201	520	76
BSM 1 special magnetic	98710001	520	87
BSM 2 Special magnetic	98720001	520	87
BSK 1 blank base	97050001	520	87
BSK 2 blank base	97050501	520	87
DAL 1 Universal outlet cleats	97070501	520	67
DAL 2 Universal outlet cleats	97070601	520	67
DAL 4 Universal outlet cleats	97070401	520	67
DH 100-M5 ceiling hook	97911901	520	85
DH 115-M5 ceiling hook	97912101	520	85
DH 125-M5 ceiling hook	97912401	520	85
DH 135-M5 ceiling hook	97912301	520	85
DH 65-M5 ceiling hook	97912001	520	85
DH 75-M5 ceiling hook	97911701	520	85
DH 90-M5 ceiling hook	97912201	520	85
FT68R Front part	98206801	520	27
FT75R Front part	98207501	520	27
FTF1 Front part	98211001	520	27
GWB Thread bottom	97911001	520	83
HM-UNI	97929901	520	87
IBT BWA Reinforcement adapter	97933001	520	44
IBT LZA-18 Hole punch	97811801	520	88
IBT LZA-23 Hole punch	97812301	520	88
IBT LZA-OE Hole punch	97810001	520	88
IBT STE-LST/14 Punch set	97881401	520	89
IBT STE-LST/18 Punch set	97881801	520	89
IBT STE-LST/23 Punch set	97882301	520	89
IBT STE-LST/30 Punch set	97883001	520	89
IBT STE-LST/39 Punch set	97883901	520	89
IBT STE-LZA/14 Punch set	97891401	520	88
IBT STE-LZA/18 Punch set	97891801	520	88
IBT STE-LZA/23 Punch set	97892301	520	88
IBTLED 1 E Installation housing	98210002	520	79
IBTLED 1 Installation housing	98210002	520	26
IBTLED 1-0 Installation housing	98210101	520	27
IBTLED 2 E Installation housing	98215002	520	79
IBTLED 2 Installation housing	98215002	520	26
IBTLED 3 E Installation housing	98220002	520	79
IBTLED 3 E Installation housing	98220002	520	26
IBTLED 3 Installation housing	98220202	520	80
IBTLED 3-1 E Installation housing	98220202	520	27
	97600301	520	31
IBTronic H120-0 Installation housing	97600301	520	31
IBTronic H120-68 Installation housing			
IBTronic H120-P Installation housing	97600401	520	31
IBTronic H120-P-O Installation housing	97610401	520	32
IBTronic H120-S1 Installation housing	97600101	520	31
IBTronic H120-S1-0 Installation housing	97610301	520	32
IBTronic H120-S2 Installation housing	97600201	520	31

Description	Order No.	DG	Page
IBTronic H120TT-0 Installation housing	97620301	520	33
IBTronic H120TT-68 Installation housing	97620501	520	33
IBTronic H120TT-P Installation housing	97620401	520	33
IBTronic H120TT-S1 Installation housing	97620101	520	33
IBTronic H120TT-S2 Installation housing	97620201	520	33
IBTronic XL Drillbox 150 E Enclosure	97680402	520	78
IBTronic XL Drillbox 150 Enclosure	97680401	520	63
IBTronic XL Drillbox E Enclosure	97680102	520	78
IBTronic XL Drillbox Enclosure	97680101	520	62
IBTronic XL H 185 F Enclosure	97660401	520	29
IBTronic XL H 185 FE Enclosure	97660402	520	78
K0 EK Mounting box	97700101	520	55
K0 EK Mounting box	97700101	520	77
KO K15 BL Blank strip	97953201	520	86
K0 VD sealing plate	97710001	520	84
	97710001	520	55
K15 EK Mounting box	97700201	520	77
K15 EK Mounting box	97700201	520	84
K15 VD sealing plate			
K3 EK Mounting box	98000201	520	56
K3 VD sealing plate	98010001	520	84
K4 EK Mounting box	98000401	520	56
K4 VD sealing plate	98010401	520	84
K4-H EK Universal mounting enclosure	98000501	520	57
K4-H-P EK Universal mounting enclosure	98000601	520	57
KOT 20 Cone funnel	97061801	520	67
KOT 25 Cone funnel	97062301	520	67
KOT 32 Cone funnel	97063001	520	67
KOT 40 Cone funnel	97063701	520	67
KUK Dome box	97055001	520	68
LFR Stepped drill	19599501	600	90
LMK 76 Luminaire assembly kit	97980301	520	62
LST Hand hole punching tool	97916201	520	89
MA	97930001	520	87
NA-AL	97924201	520	87
NA-AL/gl	97924301	520	87
NAS-AL	97924001	520	87
P 71 DATA equipment junction box	98406701	520	19
P 71 DATA -K equipment junction box	98476701	520	19
P 71 DATA -O equipment junction box	98496701	520	19
P 71 GRD Receptacle	98404501	520	16
P 71 GRD-K Receptacle	98474501	520	16
P 71 GRD-O Receptacle	98494501	520	16
P 71 GRO Large conduit box	98407501	520	17
P 71 GRO-K Large conduit box	98477501	520	17
P 71 GRO-O Large conduit box	98497501	520	17
P 71 GVD 2xM25 Branch socket	98406601	520	17
P 71 GVD Branch socket	98406501	520	16
P 71 GVD-K 2xM25 Branch socket	98476601	520	17
P 71 GVD-K Branch socket	98476501	520	16
P 71 GVD-O 2xM25 Branch socket	98496601	520	17
P 71 GVD-O Branch socket	98496501	520	16
RA 16 Conduit adapter	98401601	520	17
RA 20 Conduit adapter	98402001	520	17
RA 25 Conduit adapter	98402501	520	17
RA 32 Conduit adapter	98403201	520	17
RA 40 Conduit adapter	98404001	520	17
ROK 20 Conduit elbow	97042501	520	65

Description	Order No.	DG	Page
ROK 20 S Conduit elbow set	97072001	520	66
ROK 25 Conduit elbow	97043001	520	65
ROK 25 S Conduit elbow set	97072501	520	66
ROK 32 Conduit elbow	97043501	520	65
ROK 32 S Conduit elbow set	97073201	520	66
ROP 20 Conduit ferrule	97051801	520	65
ROP 25 Conduit ferrule	97052301	520	65
ROP 32 Conduit ferrule	97053001	520	65
ROP 40 Conduit ferrule	97053701	520	65
RVB 20 Conduit coupling	97022001	520	88
RVB 25 Conduit coupling	97022501	520	88
RVB 32 Conduit coupling	97023201	520	88
RVB 40 Conduit coupling	97024001	520	88
STH 100 Support spar	97960001	520	85
STH 110 Support spar	97961001	520	85
STH 130 Support spar	97963001	520	85
STH 140 Support spar	97964001	520	85
STH 150 Support spar	97965001	520	85
STH 170 Support spar	97967001	520	85
STH 190 Support spar	97969001	520	85
STH 230 Support spar	97973001	520	85
STH 240 Support spar	97974001	520	85
STH 290 Support spar	97979001	520	85
STH 70 Support spar	97957001	520	85
STH 90 Support spar	97959001	520	85
U 120 GRO-3 Large conduit box	97331201	520	21
U 120 GRO-3 Large conduit box	97331201	520	52
U 120 GRO-3-O Large conduit box	97371401	520	22
U 120 GRO-3-O Large conduit box	97371401	520	52
U 120 K GRO-2 Large conduit box	97371201	520	21
U 120 K GRO-2 Large conduit box	97371201	520	52
U 120 K GRO-3 Large conduit box	97371301	520	21
U 120 K GRO-3 Large conduit box	97371301	520	52
U 71 BSK blank base	97953901	520	86
U 71 BSK-2 blank base	97953002	520	86
U 71 BSK-K blank base	97953801	520	86
U 71 BSK-NA blank base	97953001	520	86
U 71 BWD GVD-2-60 Reinforcement box	97116501	520	44
U 71 BWD WAD-35 Reinforcement box	97016001	520	44
U 71 DAD Ceiling luminaire junction box	97154801	520	22
U 71 DAD Ceiling luminaire junction box	97154801	520	53
U 71 DGR Large conduit box	97277001	520	23
U 71 DGR Large conduit box	97277001	520	53
U 71 DVD-2 Ceiling junction box	97106601	520	23
U 71 DVD-2 Ceiling junction box	97106601	520	54
U 71 FD Flat box	97103501	520	48
U 71 GRD Receptacle	97104501	520	48
U 71 GRO Large conduit box	97296001	520	49
U 71 GVD-2 Branch socket	97106501	520	48
U 71 GVD-3 Branch socket	97136501	520	49
U 71 K DVD-2 Ceiling junction box	97176601	520	23
U 71 K DVD-2 Ceiling junction box	97176601	520	54
U 71 K DVD-3 Ceiling junction box	97186601	520	23
U 71 K DVD-3 Ceiling junction box	97186601	520	54
U 71 K GRD Receptacle	97174501	520	48
U 71 K GRO Large conduit box	97276001	520	49
U 71 K GVD-2 Branch socket	97176501	520	48
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Description	Order No.	DG	Page
U 71 K GVD-3 Branch socket	97186501	520	49
U 71 KP-M5 Dome	97174801	520	83
U 71 KUD Dome box	97104701	520	50
U 71 KUD-M5 Dome box	97124801	520	50
U 71 KUT Dome funnel	97054001	520	69
U 71 Perilex Receptacle	97305001	520	50
U 71 TD-44 Deep box	97292501	520	50
U 71 TD-49 Deep box	97294501	520	51
U 71 VDF sealing plate	97910201	520	84
U 86 DVD-2 Ceiling junction box	97308102	520	21
U 86 DVD-2 Ceiling junction box	97308102	520	51
U 86 K DVD-2 Ceiling junction box	97378101	520	21
U 86 K DVD-2 Ceiling junction box	97378101	520	51
U 86 K DVD-3 Ceiling junction box	97378301	520	21
U 86 K DVD-3 Ceiling junction box	97378301	520	51
U 86 VDF sealing plate	97910301	520	84
UP 015 Distributor kit	98600001	520	57
UVA 90 Universal outlet	97071601	520	66
VB 105	97921501	520	90
VB 71	97921201	520	90
VB 80/85	97921301	520	90
VB 90	97921401	520	90
VBK Junction boxes	97069001	520	68
VBN Compound nipple	97921001	520	84
VCBS Conector clips	98791101	520	90
VD 75 sealing plate	97910001	520	84
VD-67-O sealing plate	92510301	520	84
WAD VD Wall outlet socket	97056201	520	49
WAD Wall outlet socket	97056001	520	49
WED Expansion mandrel	97915501	520	88
WK 007 KLS-2,5 ² Terminal block	46052501	140	83
WK 060 KLS-6 ² Terminal block	46050601	140	83
WK 100 KLS-10 ² Terminal block	46051001	140	83
WK 160 KLS-16 ² Terminal block	46051601	140	83
WK 250 KLS-25 ² Terminal block	46053501	140	83

General Terms and Conditions

1. For all deliveries

- including deliveries from our agents' stocks the following terms shall be applied:
- 1.1 the "Warranty regulations of manufacturers of installation devices and installation systems"
- 1.2 "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry for Commercial Transactions between Businesses" in the version as amended by Zentralverband der Elektrotechnik und Elektronikindustrie (ZVEI) e.V.", the German Electrical and Electronic Manufacturers' Association
- 1.3 in addition, the following paragraphs 2 to 12. We will happily send you the above mentioned standards, delivery terms and clauses, if required. The documents can also be downloaded from our web site (www.spelsberg.de). We here-with reject the conditions of purchase of our customer unless they are explicitly acknowledged by us. Our terms will be acknowledged will be considered the sole binding legal foundation when delivery is taken of objects supplied by. Order confirmations will only be sent if requested expressly.

2. Small orders

for less than 100 euro will not be granted any discount but invoiced gross for net.

3. Sea-proof packing

Will be supplementary invoiced only in case of packing in containers.

4. Delivery freight prepaid

(freight paid, packing included) will be carried out within the territory of Germany for a net order value of more than 1,000 euro. Haulage payable at destination shall be borne by the receiver of the goods.

5. Dispatch

will always be carried out at receiver's risk, even in case of agreed delivery freight prepaid.

6. Suitability and nature of goods

Any indication and information concerning suitability, nature and application our of goods shall not discharge our customer from their own controls and tests. The customer processing our goods shall be assume liability for dispositions prescribed by law, public agencies and electric supply companies.

7. Claims

shall only be acknowledged within 8 days of the receipt of the consignment. On receipt of the goods, the person delivering the goods must confirm any visible damage to goods in transit on the relevant delivery notes.

8. Return of goods

shall be rejected unless we have given our prior acceptance. In case of non-compliance the company /person returning the goods shall assume liability for any costs and disadvantages.

9. Our payment terms

are within 10 days less 3 % cash discount or net within 30 days. If the customer is in arrears of payment, we are entitled to claim interest in the amount of the current base interest. Should the customer's solvency be doubted, in particular in case of payment in arrears, we are entitled, subject to all other claims, to demand payment in advance or guarantees or revoke already granted credit terms.

10. Place of performance

for delivery, payment and other contractual performances of both parties is Schalksmühle. Place of jurisdiction is Lüdenscheid. German law governs the relationship between the contracting parties.

11. Data protection

We are entitled to use data arising from the business relationship with our customers, regardless their origin, within the meaning of the BDSG (the German Federal Data rotection Act).

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Products Customizing Solutions News Service About us

Home / Solutions / Concrete construction / Overview

Concrete construction

Overview

Spelsberg: Solutions for concrete construction

Concrete is fundamental for many construction projects. Whether for functional or residential construction - the efficiency of concrete construction is highly regarded in both areas. The use of concrete is advantages based on the short construction time and high degree of pre-

In comparison with other construction methods, however, an especially well-planned and skilful electrical installation are especially important.

Clever solutions from Spelsberg

This is precisely what the solutions for concrete construction from Spelsberg offer. They are suitable for installation in in-place concrete and prefabricated elements.

Switch and connector sockets, light concrete boxes, installation boxes, universal luminaire housings and wall and ceiling transitions for IBT systems from Spelsberg can be easily installed on the formwork before the actual concrete process and then cast in place.

The especially high stability and strength of the IBT products protects the interior from the concrete and guarantees high positional stability.

Spelsberg developed its IBTronic system for integration of halogen or LED luminaires, speakers and high-quality electronics, such as KNX components or transformers conveniently and comfortable in concrete ceilings. With the patented support spar technique, the housing can be installed equally safely in horizontal or vertical formwork.

This and other technologies for concrete construction assure versatile and stable solutions for electrical installation in the widest variety of buildings and structures.







Learn more about our solutions for prefabricated parts



Our solutions for cast-in-place concrete

