



... we protect people!



ECONFENCE[®]

Die neue Schutzgitter-Generation

protection · german made



Company profile



HIGH LINE

MEDIUM LINE

BASIC LINE

RAL colour groups

We ensure that machine operating can be performed safely

TIEMANN Schutz-Systeme GmbH is a manufacturer and supplier of protective fencing and partition fencing systems for machine and plant engineering, and has a leading market position in the automotive and robotics industry, warehouse logistics, and in the food industry sectors. The development of various protective fencing systems for a diverse range of applications, as well as the flexible and frameless modular construction system, constitute the unique selling point of the company's own ECONFENCE® brand.

Our mission is to protect people with the aid of our products and to ensure that machine operation can be performed safely. Our main priority is to serve everyone and anyone who is able to benefit from our systems and services. We consider each of our customers as individuals. Thus, we strive to fully understand and accommodate the needs of our partners and to process these requirements in a cooperative manner.

We have a responsibility toward our customers, which is why we must avouch our high demands with regard to quality, because TIEMANN Schutz-Systeme only uses top-grade raw materials and tested components.

We are fully aware of the fact that the ability to fulfil customer requirements in the best possible manner is dependent on the creative skills, the versatility and from the teamwork of our employees. Therefore, we do what we can to support and encourage this by ensuring a pleasant and friendly working atmosphere for those within our family company.

Cooperation in partnership with our customers and suppliers is an integral part of our value system, because we are only able to ensure a successful future by working together as collaboratively strong team.

Frank und Axel W. Tiemann



Our ideas and visions for your success

Our idea was to create economical standards with a high level of stability with regard to sophisticated design.

With regard to protective equipment and partition grids, our customers have long since associated the name TIEMANN Schutz-Systeme and the ECONFENCE® brand with great reliability when it comes to partnership and industrial supplies. We have provided complete solution from a single source for over 30 years. You, too, can benefit from our experience. We produce and market innovative products in accordance with the principles of our mission statement: "... we protect people!"

As the leading company with BG (Accident Prevention & Insurance Association) tested safety products concerning standard conformity and resilience in the area of machine protection and partition grid systems made of steel, we welcome new challenges each day in accordance with the principles of our vision:

"We want the market of the future to benefit from our innovative products beyond the European borders: In accordance with the principle that the customer is always the focal point of our actions, because a down-to-earth attitude facilitates a sense of reality."



ECONFENCE® A strong brand for your safety

Reference list extract

Airbus Industries Allgäuer Emmentalerwerk Alno Amazon Logistik BASF Bayer Buna Blum BMW AG Continental AG Daimler Chrysler AG De Beukelaer Deutsche Aerospace Airbus DHL Dynamit Nobel Fagor Arrasate Freudenberg Geobra Brandstätter Gillette Deutschland Hanomag



Hella KG Karlsberg Brauerei KM Europa Metall AG Haribo Kronospan Kronprinz Alu Guß MAGNA STEYR Mannesmann Präzisrohr Neff Phoenix Contact Proctor & Gamble PSB Rehau SEW Eurodrive Siemens AG Smurfit Tesa Thyssen Krupp Tönnies Veltins Voith Paper Wella AG



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HIGH LINE

MEDIUM LINE

BASIC LINE

RAL colour groups

Our protective fence systems



HIGH LINE

Maximum protection for the robotics and automation industries



ECONFENCE
Die neue Schutzgitter-Generation
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MEDIUM LINE

The strong solution for machines, production facilities and automation



ECONFENCE
Die neue Schutzgitter-Generation
protection · german made



BASIC LINE

Attractive and economical for warehouse logistics and production facilities



ECONFENCE
Die neue Schutzgitter-Generation
protection · german made

NEW



HYGIENEFENCE® [stainless steel 1.4301]

The clean solution for production facilities and automation in the food industry



HYGIENEFENCE®
leading in pure safety

more information at "www.hygienefence.com"

Professional protection and economic efficiency

Take advantage of the wide range of options... it's your choice!

Do you or your customer demand the best in terms of strength, comfort and design, or do you simply require a cost-effective and functional solution?

Our ECONFENCE® System lines provide you with an ideal selection to suit your individual needs and to fulfil your particular requirement profile. Thus, you will always be provided with the protection that you need at a reasonable cost/performance ratio, depending on the area of application and mechanical loading.

The superior robustness of our ECONFENCE® Systems is guaranteed by the frameless construction, a special alignment and welding of the bars, as well as the innovative mounting elements made of heavy-duty special plastic or s steel clamping element.

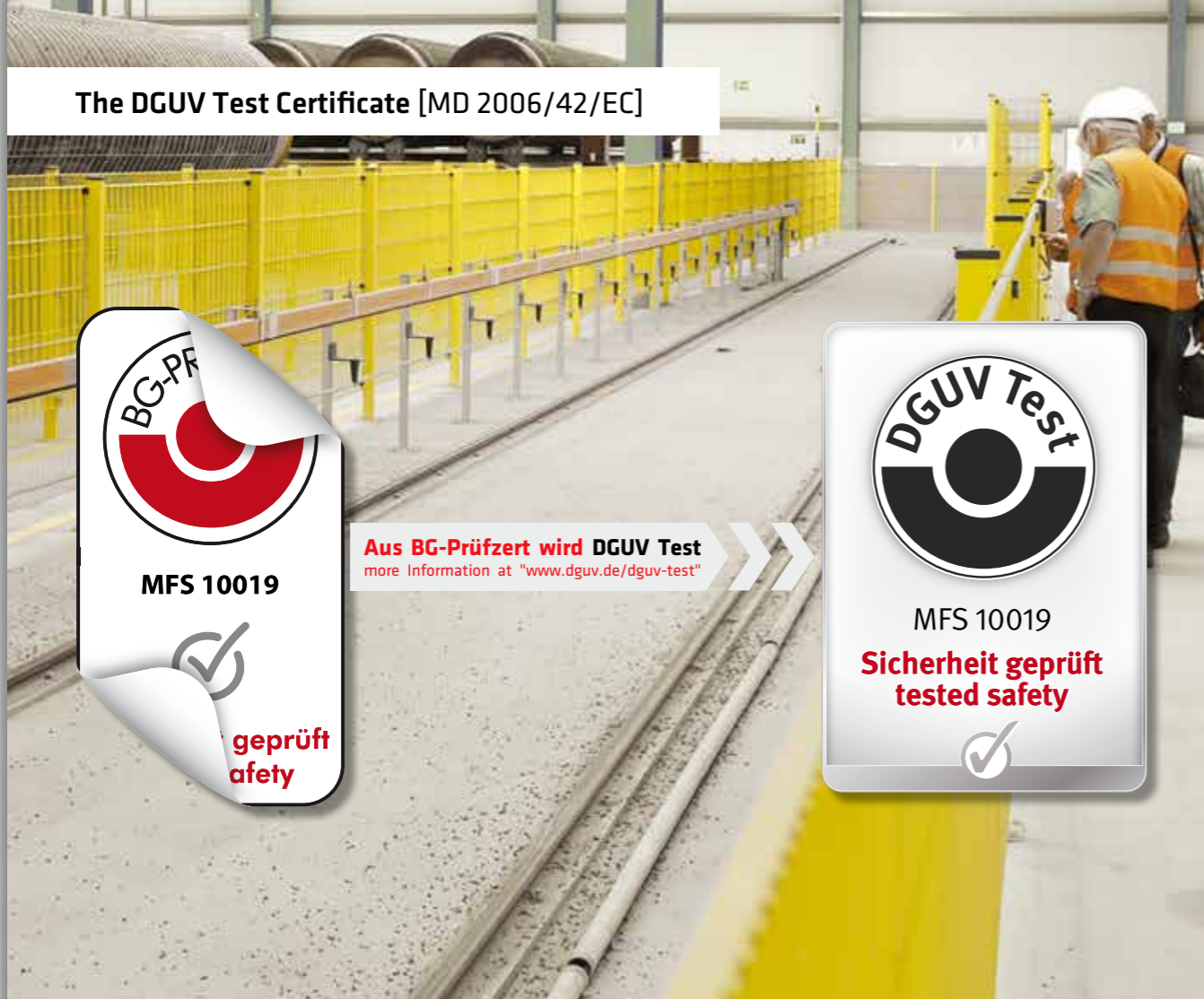
Without losing any of the mechanical stability, recesses and apertures can be cut out in order to allow the protective fence to suit the actual production requirements of the on-site user. The standard design of height-adjustable posts compensate uneven ground and ensure stability.

Thus, an extensive level of flexibility combined with maximum stability ensures comprehensive protection for both employees and machines.

Safe. Economical. Innovative

ECONFENCE®
Die neue Schutzgitter-Generation
protection · german made

The DGUV Test Certificate [MD 2006/42/EC]



Aus BG-Prüfzert wird DGUV Test
more Information at "www.dguv.de/dguv-test"



Tested for safety by the DGUV – Accident Prevention & Insurance Association

We provide you with guaranteed safety with the first BG certified protective fence made of steel in accordance with MD 2006/42/EC

All of our ECONFENCE® protective fences bear the BG Test Certificate sign. After undergoing thorough tests, approval is confirmed in the DGUV Test Certificate by the BG (Accident Prevention & Insurance Association) Metall Nord Süd, the Technical Committee of Machine Construction and Testing and Certification Authority.

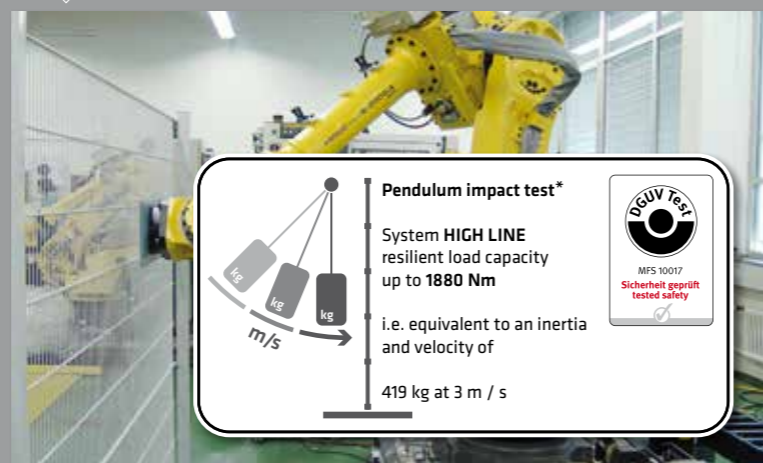
Thus, we fulfil all requirements of the new EC Machinery Directive 2006/42/EC concerning protective partitioning systems. The conformity confirms the adherence to the highest level of safety standards.

The individual fixing elements can only be released with the aid of tools, but remain connected to the fencing after the fencing is removed, the effect of which is that the installation is no longer in safety position. An appropriate declaration of conformity is automatically provided with each delivery.



BG Test Certificates for type approval in conformity with EC Machinery Directive 2006/42/EC and pendulum impact testing

NEW: System HIGH LINE resilient load capacity up to 1880 Nm



*DGUV tested safety by means of pendulum impact testing, System HIGH LINE with steel clamping element, system height 2000 mm, past spacing 1500 mm, impact height 1000 mm



Important information about your fence-shopping

Nach der neuen MRL 2006/42/EG gilt die trennende Schutzeinrichtung als Sicherheitsbauteil.

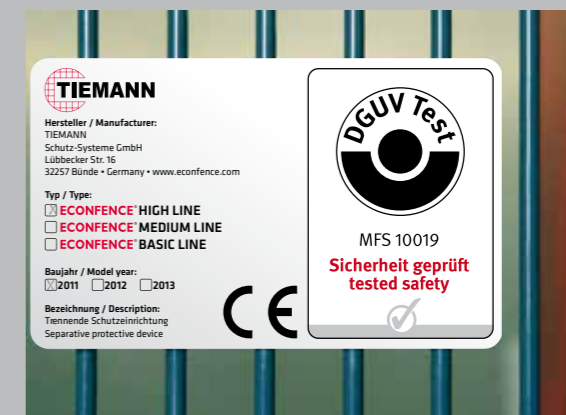
Daher müssen die Schutzzaunsysteme neuerdings vom Hersteller bei der Auslieferung wie folgt dokumentiert und gemäß der MRL 2006/42/EG gekennzeichnet werden:

- » mit EG-Konformitätserklärung
- » mit CE-Kennzeichnung

ECONFENCE® erfüllt somit die Anforderungen der neuen EG-Maschinenrichtlinie 2006/42/EG an trennende Schutzeinrichtungen auf gesetzeskonformer Weise:



Application of undetachable fixing devices.



Declaration of conformity directly from the protective fencing manufacturer



A tool must be required to open up the fixing elements of the protective fence.



Protective system is not allowed to remain in the protective position without the aid of fixing elements

Your competitive advantages



All system advantages from one source

1 Frameless element construction method – quickly adaptable

The frameless module construction method is the functional alternative to conventional frame screens. Flexible section cutting and recesses can be performed directly on site – no subsequent welding necessary!

2 Easy and fast assembly – preassembled components

Preassembled system components in the HIGH LINE, MEDIUM LINE programme. All posts and doors are already preassembled by the manufacturer.

3 Tested safety

Our protective fencing systems are in conformity with the new Machinery Directive 2006/42/EC and are DGUV certified. In addition to this, our products are subjected to load-bearing and stability tests exceeding the normal test standards.

4 Brand product – flexible system modules

You can rely upon the ECONFENCE® brand. Our system modules stand for safety, economic efficiency and innovation combined with maximum product quality.

5 2/3D design data

With regard to construction and planning, we provide you with all necessary CAD files, which are accessible in the customer portal section of our website under “www.econfence.com”

6 Powder coating

Our protective fence systems have a high-quality powder coating. This modern coating method creates a visually attractive effect, bonds firmly and is environmentally friendly.

7 Post height adjustment

As a standard feature, the posts of the HIGH LINE, MEDIUM LINE and BASIC LINE are all height-adjustable.

8 Hazard analysis

Upon your request and with your help, our team will prepare a complete safety concept in accordance with applicable standards.

9 CAD design

It would be our pleasure to design and draw a complete protective fencing layout in 2- or 3D for you, which we will send to you to be reviewed or approved for production.

10 Ex factory protective switch installation

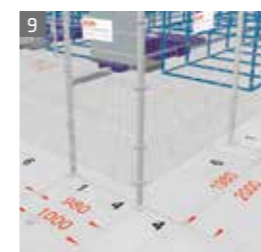
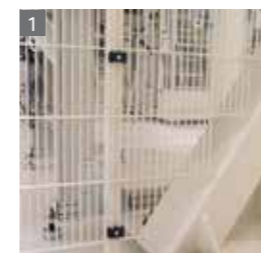
We can pre-install the door-locking mechanism of your choice in accordance with the relevant safety category.

11 Component identification – construction plan

We can provide component identification and respective construction plan with every delivery upon request. This guarantees an ideal and fast installation performance.

12 Individual solutions

We rise to the challenge of your assignment and create customised solutions. For instance lifting gates and self-supporting sliding gates with or without drive units, folding doors, as well as device and machine housings and enclosures of every imaginable type.



ECONFENCE® designer 2.1

The ECONFENCE® designer sets new standards as a 3D protective fencing designer

Design complex systems cost-efficiently and within minutes

The ECONFENCE® designer has been especially developed for TIEMANN customers. With the easy to operate design and animation tool you are able to visualise and analyse protective fencing scenarios and layouts on a standard computer or laptop within the comfort of your own office.

An overview of the most important features and advantages for planners, engineers and sales personnel

First 3D protective fencing designer with a BG Test Certificate for fencing

The protective fencing variants from the model library have been awarded the BG Test Certificate in accordance with the new Machinery Directive 2006/42/EC.

Application without previous 3D CAD knowledge

Intuitive operation, simple interface.

2D and 3D import and export functions

You can easily integrate protective housing and enclosure systems in already existing project layouts, so that you can send completely developed safety concepts to your customers.

Enter virtual worlds at cyberspeed

Create complex protective fencing systems in just a matter of minutes. You can convert freehand sketches into virtual worlds at cyberspeed.

Dynamic 3D visualisation and rendering

You can quickly and precisely render accurately detailed and virtual images and videos with virtual "fly-through" functions. Export the VR scene for presentation purposes.

Online enquiry tool

Simply send your created layouts directly from the application to us.

Create parts lists

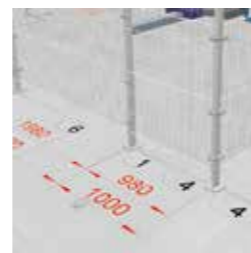
The possibility to export component lists to Microsoft® Excel for further processing.

Automatic dimensioning - component identification

All components included in plans are automatically dimensioned and provided with a component identification. The drawing later serves as an order template and assembly plan.



ECONFENCE® model library



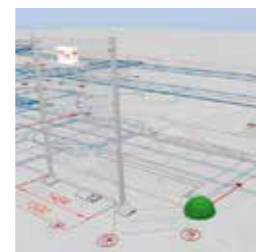
Fully-automatic dimensioning



Online enquiry tool



Mesh cut outs and dimensional cuts



2D / 3D Import and export function



Export of parts lists to MS Excel®



The first virtual 3D protective fencing designer with DGUV Test Certificate for protective fencing in accordance with the new Machinery Directive 2006/42/EC.

Order your 14-day free test version today

Find more information under „www.econfence.com“



Planning a protection zone - EN Standards

Among other things, our products serve to safeguard hazard areas in the form of a protective partitioning system. Our protective fencing systems are designed in accordance with the applied EU Standards and, thus, fulfil the current accident prevention regulations.

A risk analysis is required in order to be able to plan a protection zone in which protective partitioning systems are used. The following standards must be observed:

DIN EN ISO 12100

Safety of machinery

DIN EN ISO 13857

Safety distances to prevent hazard areas being reached by upper and lower limbs

DIN EN 953

Protective partitioning systems

DIN EN 1088

Interlocking devices associated with protective safeguards

Danger zone analysis

The safety distance of the protective fencing system is specified in accordance with the respective EN. A layout of the machine is required in order to be able to perform an analysis.

Risk analysis and assessment

The risk analysis is to be performed and evaluated by the customer, in accordance with the relevant and harmonised standards, in order to be able to specify the required mesh size, mesh height, ground clearance, the danger zone distance and the type of application.

Safety distance examples

DIN EN ISO 13857 (upper/lower limbs)



HIGH LINE



High resistance protective mesh – guarantees the highest possible level of safety, even under maximum mechanical loads.



Optimum protection for the robotics and automation industries



Be on the safe side

The ECONFENCE® HIGH LINE protective fencing system can be used anywhere where an increased level of safety and, therefore, an optimum protection of people is required.

Application in the robotics and automation industries.

The high-strength mesh elements of our premium product guarantee the highest possible level of protection for employees, even when subjected to maximum mechanical loads.

Make the most of the advantages provided by HIGH LINE:

- Suitable for application with heavy-duty robotics, resilient load capacity up to 1880 Nm, pendulum impact test with BG Test Certificate.
- Protective fencing conform with MRL 2006/42/EC with BG Test Certificate
- All components preassembled ex factory.

The HIGH LINE product range:

Effective length of element

500 | 1000 | 1500 | 2000 | 2500 mm

Door widths

1 leaf revolving door: 800 | 1000 | 1400 mm
2 leaf revolving door: 1500 | 1900 | 2700 mm
1 leaf sliding door: 1000 | 1400 mm

System heights

2.000 | 2.400 mm

Standard colour shades

RAL 7035 light grey
RAL 1021 rape yellow
RAL 9005 jet black



*BG tested safety by means of pendulum impact testing, **System HIGH LINE with steel clamping element, system height 2000 mm, past spacing 1500 mm, impact height 1000 mm

Safety distance from source of hazard
120 mm

Effective length of element
 500|1000|1500|2000|2500* mm
 *Mesh width only available in system height 2000 mm

Standard post
 consisting of rectangular steel pipes with plastic caps, plastic clamping element with steel screw, preassembled plastic holding elements, as well as height-adjustable base plates

Mesh elements
 2 horizontal wires (8 mm) with inside lying vertical wires (6 mm), spot-welded

Mesh size
 distance of the horizontal wires 190 mm, standard distances of the vertical wires 19 mm That amounts to a mesh size of 19 x 190 mm

Height-adjustable base plate, 140 x 140 x 8 mm, mounted on the post ex factory

System height 2000 mm

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Mesh elements / Posts in mm W x H
H18005019	2-7035	3-xxxx	4-xxxx	500 x 1800 mm
H18010019	2-7035	3-xxxx	4-xxxx	1000 x 1800 mm
H18015019	2-7035	3-xxxx	4-xxxx	1500 x 1800 mm
H18020019	2-7035	3-xxxx	4-xxxx	2000 x 1800 mm
H18025019	2-7035	3-xxxx	4-xxxx	2500 x 1800 mm
Reihenpfosten RP 2000	2-7035	3-xxxx	4-xxxx	60/40/2000 mm
Eckpfosten L EPL2000	2-7035	3-xxxx	4-xxxx	60/40/2000 mm
Eckpfosten R EPR2000	2-7035	3-xxxx	4-xxxx	60/40/2000 mm

System height 2400 mm

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Mesh elements / Posts in mm W x H
H22005019	2-7035	3-xxxx	4-xxxx	500 x 2200 mm
H22010019	2-7035	3-xxxx	4-xxxx	1000 x 2200 mm
H22015019	2-7035	3-xxxx	4-xxxx	1500 x 2200 mm
H22020019	2-7035	3-xxxx	4-xxxx	2000 x 2200 mm
Row post RP 2400	2-7035	3-xxxx	4-xxxx	60/40/2400 mm
Corner post L EPL2400	2-7035	3-xxxx	4-xxxx	60/40/2400 mm
Corner post R EPR2400	2-7035	3-xxxx	4-xxxx	60/40/2400 mm

Example for the correct method of ordering:

Order no. **H18002519** + Colour group 2 + RAL colour no. **7035** = Complete order no **H18002519-2-7035**

Specifications are subject to technical changes without notice
 Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 - 0 | Fax: 0049 - (0) 5223-79 19 95 - 90

Safety distance from source of hazard
120 mm

Revolving door height 2000/2400 mm (frame 1800/2200 mm)

All doors with QR 40 lateral frame

Door cross brace as upper closure

Locking via latch & deadbolt lock with profile cylinder
 Aluminium handle fitting (consisting of 2 turnable handles)

Finger safeguard optional, see accessories

The doors are also preassembled ex factory, see surcharge

base plate up to 2000 mm - measure: 140 x 140 x 8 mm
base plate up to 2400 mm - measure: 180 x 180 x 8 mm

Doors are identical in construction to the **MEDIUM LINE** programme

Opening direction from outside

DIN left

DIN right

System height 2000 mm | DIN left

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
TL18008019	2-7035	3-xxxx	4-xxxx	800 x 2000 mm
TL18010019	2-7035	3-xxxx	4-xxxx	1000 x 2000 mm
TL18014019	2-7035	3-xxxx	4-xxxx	1400 x 2000 mm

System height 2000 mm | DIN right

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
TR18008019	2-7035	3-xxxx	4-xxxx	800 x 2000 mm
TR18010019	2-7035	3-xxxx	4-xxxx	1000 x 2000 mm
TR18014019	2-7035	3-xxxx	4-xxxx	1400 x 2000 mm

System height 2400 mm | DIN left

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
TL22008019	2-7035	3-xxxx	4-xxxx	800 x 2400 mm
TL22010019	2-7035	3-xxxx	4-xxxx	1000 x 2400 mm
TL22014019	2-7035	3-xxxx	4-xxxx	1400 x 2400 mm

System height 2400 mm | DIN right

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
TR22008019	2-7035	3-xxxx	4-xxxx	800 x 2400 mm
TR22010019	2-7035	3-xxxx	4-xxxx	1000 x 2400 mm
TR22014019	2-7035	3-xxxx	4-xxxx	1400 x 2400 mm

Example for the correct method of ordering:

Order no. **TL18008019** + Colour group 2 + RAL colour no. **7035** = Complete order no. **TL18008019-2-7035**

Specifications are subject to technical changes without notice
 Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 - 0 | Fax: 0049 - (0) 5223-79 19 95 - 90

HIGH LINE | 2 leaf revolving door

<p>Safety distance from source of hazard</p> <p>□ 120 mm</p>	<p>Revolving door height 2000/2400 mm (frame 1800/2200 mm)</p> <p>All doors with QR 40 lateral frame</p> <p>Door cross brace as upper closure</p> <p>Locking via latch & deadbolt lock with profile cylinder</p> <p>Aluminium handle fitting (consisting of 2 turnable handles)</p> <p>Central locking with the aid of a floor level arrestor</p> <p>Finger safeguard optional, see accessories</p> <p>The doors are also preassembled ex factory, see surcharge</p> <p>base plate up to 2000 mm - measure: 140 x 140 x 8 mm base plate up to 2400 mm - measure: 180 x 180 x 8 mm</p> <p>Doors are identical in construction to the MEDIUM LINE programme</p>	<p>Opening direction from outside</p>
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System height 2000 mm | Lock door right / Blind door left

Order no.	Colour group 2	Colour group 3	Colour group 4	Door
	RAL	RAL	RAL	in mm W x H
DT18015019	2-7035	3-xxxx	4-xxxx	1500 x 2000 mm
DT18019019	2-7035	3-xxxx	4-xxxx	1900 x 2000 mm
DT18027019	2-7035	3-xxxx	4-xxxx	2700 x 2000 mm

System height 2400 mm | Lock door right / Blind door left

Order no.	Colour group 2	Colour group 3	Colour group 4	Door
	RAL	RAL	RAL	in mm W x H
DT22015019	2-7035	3-xxxx	4-xxxx	1500 x 2400 mm
DT22019019	2-7035	3-xxxx	4-xxxx	1900 x 2400 mm
DT22027019	2-7035	3-xxxx	4-xxxx	2700 x 2400 mm

Example for the correct method of ordering:

Order no. **DT18015019** + Colour group 2 + RAL colour no. **7035** = Complete order no **DT18015019-2-7035**

Specifications are subject to technical changes without notice

Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 -0 | Fax: 0049 - (0) 5223-79 19 95 - 90

HIGH LINE | 1 leaf sliding door



<p>Safety distance from source of hazard</p> <p>□ 120 mm</p>	<p>Sliding door height 2000/2400 mm (frame 1800/2200 mm)</p> <p>Door width = axial dimension Axial dimension minus 275 mm = door clearance</p> <p>All doors with QR 40 lateral frame</p> <p>Locking with hook type bolt with profile cylinder</p> <p>Aluminium handle fitting (consisting of 2 turnable handles)</p> <p>Finger safeguard optional, see accessories</p> <p>The doors are also preassembled ex factory, see surcharge</p> <p>base plate up to 2000 mm - measure: 140 x 140 x 8 mm base plate up to 2400 mm - measure: 180 x 180 x 8 mm</p> <p>Doors are identical in construction to the MEDIUM LINE programme</p>	<p>Opening direction from outside</p> <p>DIN left</p> <p>DIN right</p>
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System height 2000 mm | DIN left

Order no.	Colour group 2	Colour group 3	Colour group 4	Door
	RAL	RAL	RAL	in mm W x H
STL18010019	2-7035	3-xxxx	4-xxxx	1000 x 2000 mm
STL18014019	2-7035	3-xxxx	4-xxxx	1400 x 2000 mm

System height 2000 mm | DIN right

Order no.	Colour group 2	Colour group 3	Colour group 4	Door
	RAL	RAL	RAL	in mm w x H
STR18010019	2-7035	3-xxxx	4-xxxx	1000 x 2000 mm
STR18014019	2-7035	3-xxxx	4-xxxx	1400 x 2000 mm

System height 2400 mm | DIN left

Order no.	Colour group 2	Colour group 3	Colour group 4	Door
	RAL	RAL	RAL	in mm W x H
STL22010019	2-7035	3-xxxx	4-xxxx	1000 x 2400 mm
STL22014019	2-7035	3-xxxx	4-xxxx	1400 x 2400 mm

System height 2400 mm | DIN right

Order no.	Colour group 2	Colour group 3	Colour group 4	Door
	RAL	RAL	RAL	in mm W x H
STR22010019	2-7035	3-xxxx	4-xxxx	1000 x 2400 mm
STR22014019	2-7035	3-xxxx	4-xxxx	1400 x 2400 mm

Example for the correct method of ordering:

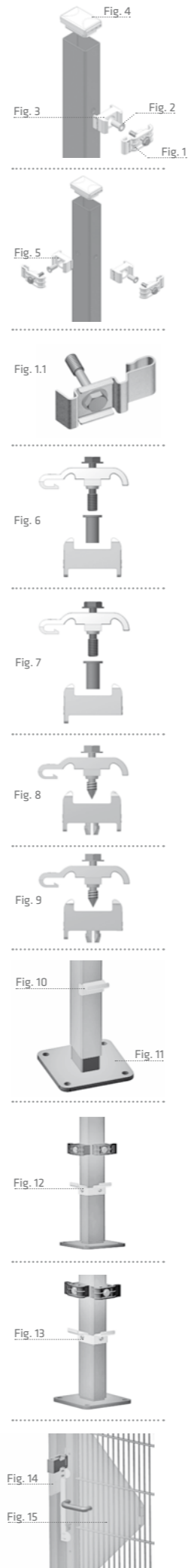
Order no. **STL18010019** + Colour group 2 + RAL colour no. **7035** = Complete order no. **STL18010019-2-7035**

Specifications are subject to technical changes without notice

Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 -0 | Fax: 0049 - (0) 5223-79 19 95 - 90

HIGH LINE and MEDIUM LINE
Extract / accessory items and surcharges

Order no.	Description	Fig.
ZB31001	Clamping element, black plastic, clamping range 6 mm, with preassembled steel screw M8x40 mm	1
ZB31075	Clamping element, stainless steel, clamping range 6 mm, with preassembled steel screw M8x40 mm	1.1
ZB31003	Clamping element, black plastic, clamping range 6 mm, with preassembled tapping screw ST8x40 mm (only in connection with drive-in version)	
ZB21014	Mesh holder row post (rivet version), black plastic, for post profile 60x40 mm	3
ZB21008	Mesh holder row post (drive-in version), black plastic, for post profile 60x40 mm	
ZB21010	Mesh holder corner post (rivet version), black plastic, for post profile 60x40 mm	5
ZB21012	Mesh holder corner post (drive-in version), black plastic, for post profile 60x40 mm	
ZB20024	Aluminium threaded rivet sleeve M8, for bore Ø 11.1 mm	2
ZB20097	Post cap with collar, black plastic, for post profile 60x40 mm	4
ZB31055	Bottom mesh connector for HL/ML row post for post profile 60x40 mm, with screw	10
ZB31056	Bottom mesh connector for HL/ML corner post left for post profile 60x40 mm, with screw	12
ZB31057	Bottom mesh connector for HL/ML corner post right for post profile 60x40 mm, with screw	13
ZB31058	Assembly set mesh fixing (rivet version) for HL/ML row post:	6 + 10
	5 x ZB31001, clamping element, black plastic, 6 mm, with preassembled steel screw	
	5 x ZB21014, mesh holder row post (rivet version), black plastic	
	5 x ZB20024, aluminium threaded rivet sleeve M8, for bore Ø 11.1 mm	
	1 x ZB31055, bottom mesh connection for HL/ML row post, with screw	
ZB31059	Assembly set mesh fixing (rivet version) for HL/ML corner post or door corner post left:	7 + 12
	5 x ZB31001, clamping element, black plastic, 6 mm, with preassembled steel screw	
	5 x ZB21010, mesh holder corner post (rivet version), black plastic	
	5 x ZB20024, aluminium threaded rivet sleeve M8, for bore Ø 11.1 mm	
	1 x ZB31056, bottom mesh connection for corner post left, with screw	
ZB31060	Assembly set mesh fixing (rivet version) for HL/ML corner post or door corner post right:	7 + 13
	5 x ZB31001, clamping element, black plastic, 6 mm, with preassembled steel screw	
	5 x ZB21010, mesh holder corner post (rivet version), black plastic	
	5 x ZB20024, aluminium threaded rivet sleeve M8, for bore Ø 11.1 mm	
	1 x ZB31057, bottom mesh connection for corner post right, with screw	
ZB31061	Assembly set mesh fixing (drive-in version) for HL/ML row post:	8 + 10
	5 x ZB31003 clamping element, black plastic, 6 mm, with preassembled tapping screw ST8x40 mm	
	5 x ZB21008, mesh holder row post (Drive-in version), black plastic	
	1 x ZB31055, bottom mesh connection for HL/ML row post, with screw	
ZB31062	Assembly set mesh fixing (drive-in version) for HL/ML corner post or door corner post left:	9 + 12
	5 x ZB31003 clamping element, black plastic, 6 mm, with preassembled tapping screw ST8x40 mm	
	5 x ZB21012, mesh holder corner post (drive-in version), black plastic	
	1 x ZB31056, bottom mesh connection for HL/ML corner post left, with screw	
ZB31063	Assembly set mesh fixing (drive-in version) for HL/ML corner post or door corner post right:	9 + 13
	5 x ZB31003 clamping element, black plastic, 6 mm, with preassembled tapping screw ST8x40 mm	
	5 x ZB21012, mesh holder corner post (drive-in version), black plastic	
	1 x ZB31057, bottom mesh connection for HL/ML corner post right, with screw	
S00001	Post insert base, for profile 60x40 mm, height-adjustable, plate 140x140 mm, galvanised	11
ISO7380-M6x10	Fastening screw for post insert base (2 pieces are required per insert base)	
ZB20025	Hilti anchor bolt made of carbon steel, galvanised HSA M10 50/40/10 for non-cracked concrete	
ZB20027	Hilti shear connector cartridge HVU M10x90 with anchor rod HAS M10x90/21 for non-cracked concrete	
ZB10103	Universal finger safeguard for all doors from the standard programme, dimensions 300 x 600 mm, galvanised including fixing and anchoring material, contained within the scope of delivery: Aluminium outside handle stationary, inside handle turnable	15
ZB40001	1- leaf revolving door system completely preassembled ex factory and ready to be installed	
ZB40002	2- leaf revolving door system completely preassembled ex factory and ready to be installed	
ZB40003	1- leaf sliding door completely preassembled ex factory and ready to be installed	
ZB31054	Assembly set for protective switch (Schmersal AZ16) for 1 leaf standard revolving door	14
ZB40004	Mounting of a safety switch on the door system, without switch, without mounting plate	
ZB20054	Spray paint, RAL 7035 – light grey, 400 ml	
ZB20055	Spray paint, RAL 1021 – rape yellow, 400 ml	
ZB20056	Spray paint, RAL 9005 – jet black silk gloss, 400 ml	
ZB40005	Mesh cut outs and dimensional cuts according to customer layout	
ZB40020	Design / construction of a protective fencing system with respective components with CAD, in 2 or 3 D, with construction plan and identification of components	
	Specifications are subject to technical changes without notice	



MEDIUM LINE

Stable protective element – universally applicable for use with increased mechanical loads

The stable solution for production facilities and automation



Stable and universally applicable
The ECONFENCE® MEDIUM LINE protective fencing system can be used anywhere where an increased level of human protection is required.

Your protective fencing solution for production facilities, automation and materials handling.

Even when subject to mechanical loading, the stable mesh elements guarantee protection for employees.

Make the most of the advantages provided by MEDIUM LINE:

- Protective fencing compliant with MD 2006/42/EC with BG Test Certificate
- All components preassembled ex factory.

The MEDIUM LINE product range:

Effective length of element
500 | 1000 | 1500 | 2000 | 2500 mm

Door widths
1 leaf revolving door: 800 | 1000 | 1400 mm
2 leaf revolving door: 1500 | 1900 | 2700 mm
1 leaf sliding door: 1000 | 1400 mm

System heights
2.000 | 2.400 mm

Standard colour shades
RAL 7035 light grey
RAL 1021 rape yellow
RAL 9005 jet black



ECONFENCE®
Die neue Schutzgitter-Generation
profession • german made

Safety distance from source of hazard
120 mm

Effective length of element
 500|1000|1500|2000|2500 mm

Standard post
 consisting of rectangular steel pipes with plastic caps, plastic clamping element with steel screw, preassembled plastic holding elements, as well as height adjustable base plates

Mesh elements
 2 horizontal wires (6 mm) with inside lying vertical wires (6 mm), spot-welded

Mesh size
 distance of the horizontal wires 190 mm, standard distances of the vertical wires 19 mm That amounts to a mesh size of 19 x 190 mm

2 horizontal wires (6 mm) with inside lying vertical wires (6 mm), spot-welded

Height-adjustable base plate, 140 x 140 x 8 mm, mounted on the post ex factory

System height 2000 mm

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Mesh elements/Posts in mm W x H
M18005019	2-7035	3-xxxx	4-xxxx	500 x 1800 mm
M18010019	2-7035	3-xxxx	4-xxxx	1000 x 1800 mm
M18015019	2-7035	3-xxxx	4-xxxx	1500 x 1800 mm
M18020019	2-7035	3-xxxx	4-xxxx	2000 x 1800 mm
M18025019	2-7035	3-xxxx	4-xxxx	2500 x 1800 mm
Row post RP2000	2-7035	3-xxxx	4-xxxx	60/40/2000 mm
Corner post L EPL2000	2-7035	3-xxxx	4-xxxx	60/40/2000 mm
Corner post R EPR2000	2-7035	3-xxxx	4-xxxx	60/40/2000 mm

System height 2400 mm

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Mesh elements/Posts in mm W x H
M22005019	2-7035	3-xxxx	4-xxxx	500 x 2200 mm
M22010019	2-7035	3-xxxx	4-xxxx	1000 x 2200 mm
M22015019	2-7035	3-xxxx	4-xxxx	1500 x 2200 mm
M22020019	2-7035	3-xxxx	4-xxxx	2000 x 2200 mm
M22025019	2-7035	3-xxxx	4-xxxx	2500 x 2200 mm
Row post RP2400	2-7035	3-xxxx	4-xxxx	60/40/2400 mm
Corner post L EPL2400	2-7035	3-xxxx	4-xxxx	60/40/2400 mm
Corner post R EPR2400	2-7035	3-xxxx	4-xxxx	60/40/2400 mm

Example for the correct method of ordering

Order no. **M18005019** + Colour group **2** + RAL colour no. **7035** = Complete order no **M18005019-2-7035**

Specifications are subject to technical changes without notice
 Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 - 0 | Fax: 0049 - (0) 5223-79 19 95 - 90

Safety distance from source of hazard
120 mm

Revolving door height 2000/2400 mm (frame 1800/2200 mm)

Opening direction from outside

All doors with QR 40 lateral frame

Door cross brace as upper closure

Locking via latch & deadbolt lock with profile cylinder
 Aluminium handle fitting (consisting of 2 turnable handles)

Finger safeguard optional, see accessories

The doors are also preassembled ex factory, see surcharge

base plate up to 2000 mm - measure: 140 x 140 x 8 mm
base plate up to 2400 mm - measure: 180 x 180 x 8 mm

Doors are identical in construction to the HIGH LINE programme

DIN left

DIN right

System height 2000 mm | DIN left

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
TL18008019	2-7035	3-xxxx	4-xxxx	800 x 2000 mm
TL18010019	2-7035	3-xxxx	4-xxxx	1000 x 2000 mm
TL18014019	2-7035	3-xxxx	4-xxxx	1400 x 2000 mm

System height 2000 mm | DIN right

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
TR18008019	2-7035	3-xxxx	4-xxxx	800 x 2000 mm
TR18010019	2-7035	3-xxxx	4-xxxx	1000 x 2000 mm
TR18014019	2-7035	3-xxxx	4-xxxx	1400 x 2000 mm

System height 2400 mm | DIN left

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
TL22008019	2-7035	3-xxxx	4-xxxx	800 x 2400 mm
TL22010019	2-7035	3-xxxx	4-xxxx	1000 x 2400 mm
TL22014019	2-7035	3-xxxx	4-xxxx	1400 x 2400 mm

System height 2400 mm | DIN right

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
TR22008019	2-7035	3-xxxx	4-xxxx	800 x 2400 mm
TR22010019	2-7035	3-xxxx	4-xxxx	1000 x 2400 mm
TR22014019	2-7035	3-xxxx	4-xxxx	1400 x 2400 mm

Example for the correct method of ordering

Order no. **TL18008019** + Colour group **2** + RAL colour no. **7035** = Complete Order no **TL18008019-2-7035**

Specifications are subject to technical changes without notice
 Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 - 0 | Fax: 0049 - (0) 5223-79 19 95 - 90

MEDIUM LINE | 2 leaf revolving door

Safety distance from source of hazard
120 mm

Revolving door height: 2000/2400 mm (frame 1800/2200 mm)

All doors with QR 40 lateral frame

Door cross brace as upper closure

Locking via latch & deadbolt lock with profile cylinder
 Aluminium handle fitting (consisting of 2 turnable handles)

Central locking with the aid of a floor level arrestor

Finger safeguard optional, see accessories

The doors are also preassembled ex factory, see surcharge

base plate up to 2000 mm - measure: 140 x 140 x 8 mm
base plate up to 2400 mm - measure: 180 x 180 x 8 mm

Doors are identical in construction to the HIGH LINE programme

Opening direction from outside

System height 2000 mm | Lock door right / Blind door left

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
DT18015019	2-7035	3-xxxx	4-xxxx	1500 x 2000 mm
DT18019019	2-7035	3-xxxx	4-xxxx	1900 x 2000 mm
DT18027019	2-7035	3-xxxx	4-xxxx	2700 x 2000 mm

System height 2400 mm | Lock door right / Blind door left

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
DT22015019	2-7035	3-xxxx	4-xxxx	1500 x 2400 mm
DT22019019	2-7035	3-xxxx	4-xxxx	1900 x 2400 mm
DT22027019	2-7035	3-xxxx	4-xxxx	2700 x 2400 mm

Example for the correct method of ordering

Order no. **DT18015019** + Colour group 2 + RAL colour no. **7035** = Complete order no **DT18015019-2-7035**

Specifications are subject to technical changes without notice
 Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 -0 | Fax: 0049 - (0) 5223-79 19 95 - 90

MEDIUM LINE | 1 leaf sliding door

Safety distance from source of hazard
120 mm

Sliding door height 2000/2400 mm (frame 1800/2200 mm)

Door width = axial dimension
 Axial dimension minus 275 mm = door clearance

All doors with QR 40 lateral frame

Locking via latch & deadbolt lock with profile cylinder
 Aluminium handle fitting (consisting of 2 turnable handles)

Finger safeguard optional, see accessories

The doors are also preassembled ex factory, see surcharge

base plate up to 2000 mm - measure: 140 x 140 x 8 mm
base plate up to 2400 mm - measure: 180 x 180 x 8 mm

Doors are identical in construction to the HIGH LINE programme

Opening direction from outside

System height 2000 mm | DIN left

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
STL18010019	2-7035	3-xxxx	4-xxxx	1000 x 2000 mm
STL18014019	2-7035	3-xxxx	4-xxxx	1400 x 2000 mm

System height 2000 mm | DIN right

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
STR18010019	2-7035	3-xxxx	4-xxxx	1000 x 2000 mm
STR18014019	2-7035	3-xxxx	4-xxxx	1400 x 2000 mm

System height 2400 mm | DIN left

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
STL22010019	2-7035	3-xxxx	4-xxxx	1000 x 2400 mm
STL22014019	2-7035	3-xxxx	4-xxxx	1400 x 2400 mm

System height 2400 mm | DIN right

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
STR22010019	2-7035	3-xxxx	4-xxxx	1000 x 2400 mm
STR22014019	2-7035	3-xxxx	4-xxxx	1400 x 2400 mm

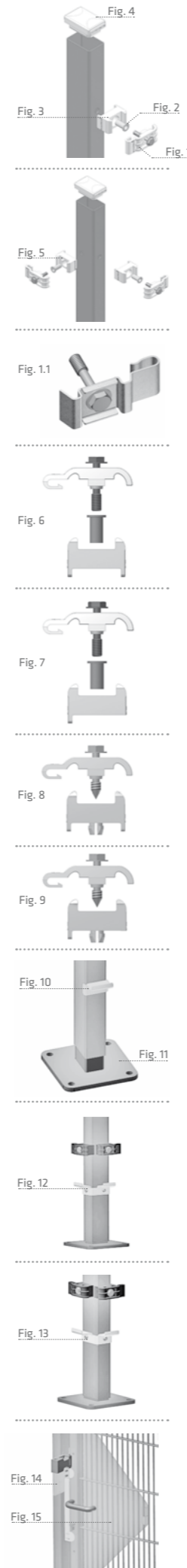
Example for the correct method of ordering

Order no. **STL18010019** + Colour group 2 + RAL colour no. **7035** = Complete Order no **STL18010019-2-7035**

Specifications are subject to technical changes without notice
 Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 -0 | Fax: 0049 - (0) 5223-79 19 95 - 90

HIGH LINE and MEDIUM LINE
Extract / accessory items and surcharges

Order no.	Description	Fig.
ZB31001	Clamping element, black plastic, clamping range 6 mm, with preassembled steel screw M8x40 mm	1
ZB31075	Clamping element, stainless steel, clamping range 6 mm, with preassembled steel screw M8x40 mm	1.1
ZB31003	Clamping element, black plastic, clamping range 6 mm, with preassembled tapping screw ST8x40 mm (only in connection with drive-in version)	
ZB21014	Mesh holder row post (rivet version), black plastic, for post profile 60x40 mm	3
ZB21008	Mesh holder row post (drive-in version), black plastic, for post profile 60x40 mm	
ZB21010	Mesh holder corner post (rivet version), black plastic, for post profile 60x40 mm	5
ZB21012	Mesh holder corner post (drive-in version), black plastic, for post profile 60x40 mm	
ZB20024	Aluminium threaded rivet sleeve M8, for bore Ø 11.1 mm	2
ZB20097	Post cap with collar, black plastic, for post profile 60x40 mm	4
ZB31055	Bottom mesh connector for HL/ML row post for post profile 60x40 mm, with screw	10
ZB31056	Bottom mesh connector for HL/ML corner post left for post profile 60x40 mm, with screw	12
ZB31057	Bottom mesh connector for HL/ML corner post right for post profile 60x40 mm, with screw	13
ZB31058	Assembly set mesh fixing (rivet version) for HL/ML row post: 5 x ZB31001, clamping element, black plastic, 6 mm, with preassembled steel screw 5 x ZB21014, mesh holder row post (rivet version), black plastic 5 x ZB20024, aluminium threaded rivet sleeve M8, for bore Ø 11.1 mm 1 x ZB31055, bottom mesh connection for HL/ML row post, with screw	6 + 10
ZB31059	Assembly set mesh fixing (rivet version) for HL/ML corner post or door corner post left: 5 x ZB31001, clamping element, black plastic, 6 mm, with preassembled steel screw 5 x ZB21010, mesh holder corner post (rivet version), black plastic 5 x ZB20024, aluminium threaded rivet sleeve M8, for bore Ø 11.1 mm 1 x ZB31056, bottom mesh connection for corner post left, with screw	7 + 12
ZB31060	Assembly set mesh fixing (rivet version) for HL/ML corner post or door corner post right: 5 x ZB31001, clamping element, black plastic, 6 mm, with preassembled steel screw 5 x ZB21010, mesh holder corner post (rivet version), black plastic 5 x ZB20024, aluminium threaded rivet sleeve M8, for bore Ø 11.1 mm 1 x ZB31057, bottom mesh connection for corner post right, with screw	7 + 13
ZB31061	Assembly set mesh fixing (drive-in version) for HL/ML row post: 5 x ZB31003 clamping element, black plastic, 6 mm, with preassembled tapping screw ST8x40 mm 5 x ZB21008, mesh holder row post (Drive-in version), black plastic 1 x ZB31055, bottom mesh connection for HL/ML row post, with screw	8 + 10
ZB31062	Assembly set mesh fixing (drive-in version) for HL/ML corner post or door corner post left: 5 x ZB31003 clamping element, black plastic, 6 mm, with preassembled tapping screw ST8x40 mm 5 x ZB21012, mesh holder corner post (drive-in version), black plastic 1 x ZB31056, bottom mesh connection for HL/ML corner post left, with screw	9 + 12
ZB31063	Assembly set mesh fixing (drive-in version) for HL/ML corner post or door corner post right: 5 x ZB31003 clamping element, black plastic, 6 mm, with preassembled tapping screw ST8x40 mm 5 x ZB21012, mesh holder corner post (drive-in version), black plastic 1 x ZB31057, bottom mesh connection for HL/ML corner post right, with screw	9 + 13
S00001	Post insert base, for profile 60x40 mm, height-adjustable, plate 140x140 mm, galvanised	11
ISO7380-M6x10	Fastening screw for post insert base (2 pieces are required per insert base)	
ZB20025	Hilti anchor bolt made of carbon steel, galvanised HSA M10 50/40/10 for non-cracked concrete	
ZB20027	Hilti shear connector cartridge HVU M10x90 with anchor rod HAS M10x90/21 for non-cracked concrete	
ZB10103	Universal finger safeguard for all doors from the standard programme, dimensions 300 x 600 mm, galvanised including fixing and anchoring material, contained within the scope of delivery: Aluminium outside handle stationary, inside handle turnable	15
ZB40001	1- leaf revolving door system completely preassembled ex factory and ready to be installed	
ZB40002	2- leaf revolving door system completely preassembled ex factory and ready to be installed	
ZB40003	1- leaf sliding door completely preassembled ex factory and ready to be installed	
ZB31054	Assembly set for protective switch (Schmersal AZ16) for 1 leaf standard revolving door	14
ZB40004	Mounting of a safety switch on the door system, without switch, without mounting plate	
ZB20054	Spray paint, RAL 7035 - light grey, 400 ml	
ZB20055	Spray paint, RAL 1021 - rape yellow, 400 ml	
ZB20056	Spray paint, RAL 9005 - jet black silk gloss, 400 ml	
ZB40005	Mesh cut outs and dimensional cuts according to customer layout	
ZB40020	Design / construction of a protective fencing system with respective components with CAD, in 2 or 3 D, with construction plan and identification of components	
	Specifications are subject to technical changes without notice	



BASIC LINE

Attractive protective element – as a functional partition between people and hazard areas

Individual and economical for warehouse logistics and production facilities



ECONFENCE
Die neue Schutzgitter-Generation
protection · german made

Economical, attractive and functional

The protective fencing system ECONFENCE® BASIC LINE has been designed for use as a functional partition between people and hazard areas.

Economical and individual for warehouse logistics and production facilities.

Make the most of the advantages provided by BASIC LINE:

- Protective fencing compliant with MD 2006/42/EC with DGUV Test Certificate
- Simple and fast self-assembly of components.

The BASIC LINE product range:

Effective length of element
500 | 1000 | 1500 | 2000 mm

Door widths
1 leaf revolving door: 1000 mm
1 leaf sliding door: 1200 mm

System heights
2.000 | 2.200 mm

Standard colour shades
RAL 7035 light grey
RAL 1021 rape yellow
RAL 9005 jet black



Safety distance from source of hazard
120 mm

Effective length of element
 500|1000|1500|2000 mm

Standard post
 consisting of rectangular steel pipes with assembly set (post cap, drive-in mesh holder, plastic clamping element with steel screw, base plate)

Mesh elements
 Horizontal round wires one-sided 5,5 mm or flat steel 15/6 mm, vertical wires 3,5 mm, spot-welded

Mesh size
 distance of the horizontal wires 190 mm, standard distances of the vertical wires 19 mm That amounts to a mesh size of 19 x 190 mm

Horizontal wires one-sided 5,5 mm or flat steel 15/6 mm, vertical wires 3,5 mm, spot-welded

Height-adjustable base plate, 140 x 140 x 6 mm, included within the scope of delivery

System height 2000 mm

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Mesh elements/Posts in mm W x H
B18005019	2-7035	3-xxxx	4-xxxx	500 x 1800 mm
B18010019	2-7035	3-xxxx	4-xxxx	1000 x 1800 mm
B18015019	2-7035	3-xxxx	4-xxxx	1500 x 1800 mm
B18020019	2-7035	3-xxxx	4-xxxx	2000 x 1800 mm
Row post BRP2000	2-7035	3-xxxx	4-xxxx	60/40/2000 mm
Universal corner post BEPLR2000	2-7035	3-xxxx	4-xxxx	60/40/2000 mm

System height 2200 mm

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Mesh elements/Posts in mm W x H
B20005019	2-7035	3-xxxx	4-xxxx	500 x 2000 mm
B20010019	2-7035	3-xxxx	4-xxxx	1000 x 2000 mm
B20015019	2-7035	3-xxxx	4-xxxx	1500 x 2000 mm
B20020019	2-7035	3-xxxx	4-xxxx	2000 x 2000 mm
Row post BRP2200	2-7035	3-xxxx	4-xxxx	60/40/2200 mm
Universal corner post BEPLR2200	2-7035	3-xxxx	4-xxxx	60/40/2200 mm

Example for the correct method of ordering

Order no. **B18005019** + Colour group **2** + RAL colour no. **7035** = Complete Order no **B18005019-2-7035**

Specifications are subject to technical changes without notice
 Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 - 0 | Fax: 0049 - (0) 5223-79 19 95 - 90

Safety distance from source of hazard
120 mm

Revolving door height 2000/2200 mm (frame 1800/2000 mm)

Opening direction from outside

All doors with QR 40 lateral lock strut

Door cross brace as upper closure. Application as cable channel also possible.

Locking via latch & deadbolt lock with profile cylinder

Aluminium handle fitting (consisting of 2 turnable handles)

Finger safeguard optional, see accessories

Universal construction method for DIN left / right assembly

Height-adjustable base plate, 140 x 140 x 6 mm, included within the scope of delivery

System height 2000 mm | Universal left / right

Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
BTLR18010019	2-7035	3-xxxx	4-xxxx	1000 x 2000 mm

System height 2200 mm | Universal left / right

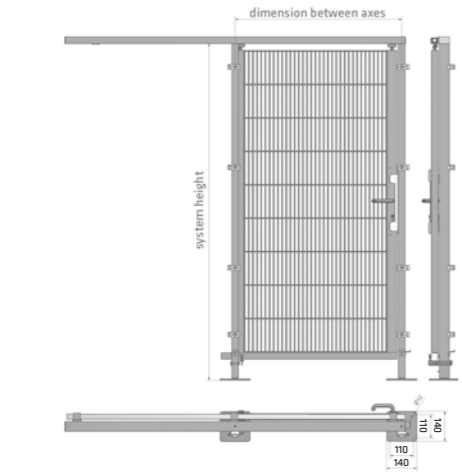
Order no.	Colour group 2 RAL	Colour group 3 RAL	Colour group 4 RAL	Door in mm W x H
BTLR20010019	2-7035	3-xxxx	4-xxxx	1000 x 2200 mm

Example for the correct method of ordering

Order no. **BTLR18010019** + Colour group **2** + RAL colour no. **7035** = Complete order no **BTLR18010019-2-7035**

Specifications are subject to technical changes without notice
 Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 - 0 | Fax: 0049 - (0) 5223-79 19 95 - 90

Safety distance from source of hazard
120 mm



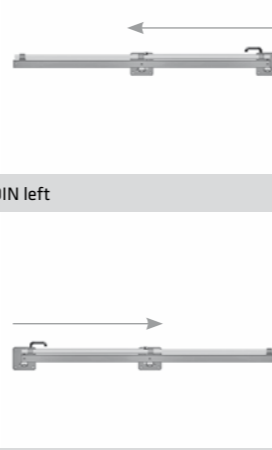
Sliding door height: 2000/2200 mm (frame 1800/2000 mm)
 Door width = axial dimension
 Axial dimension minus 275 mm = door clearance

Locking with hook type bolt with profile cylinder
 Aluminium handle fitting (consisting of 2 turnable handles)

Finger safeguard optional, see accessories

Universal construction method for DIN left / right assembly

Opening direction from outside



DIN left

DIN right

System height 2000 mm | Universal left / right

Order no.	Colour group 2	Colour group 3	Colour group 4	Door
	RAL	RAL	RAL	in mm W x H
BSTLR18012019	2-7035	3-xxxx	4-xxxx	1200 x 2000 mm

System height 2200 mm | Universal left / right

Order no.	Colour group 2	Colour group 3	Colour group 4	Door
	RAL	RAL	RAL	in mm W x H
BSTLR20012019	2-7035	3-xxxx	4-xxxx	1200 x 2200 mm

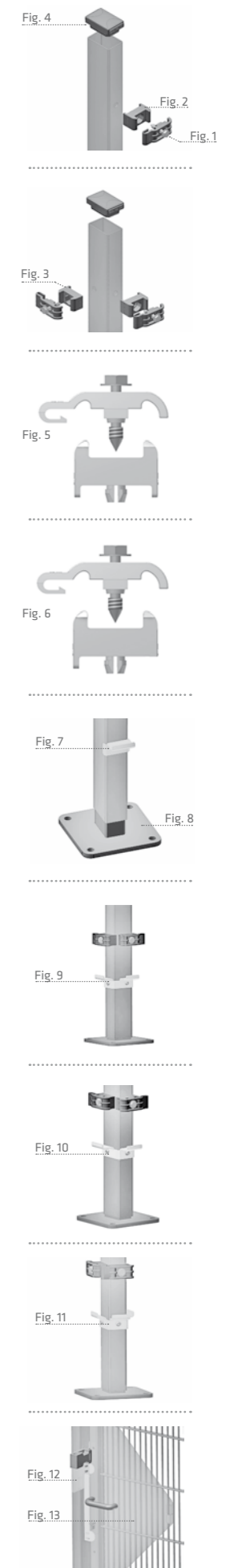
Example for the correct method of ordering

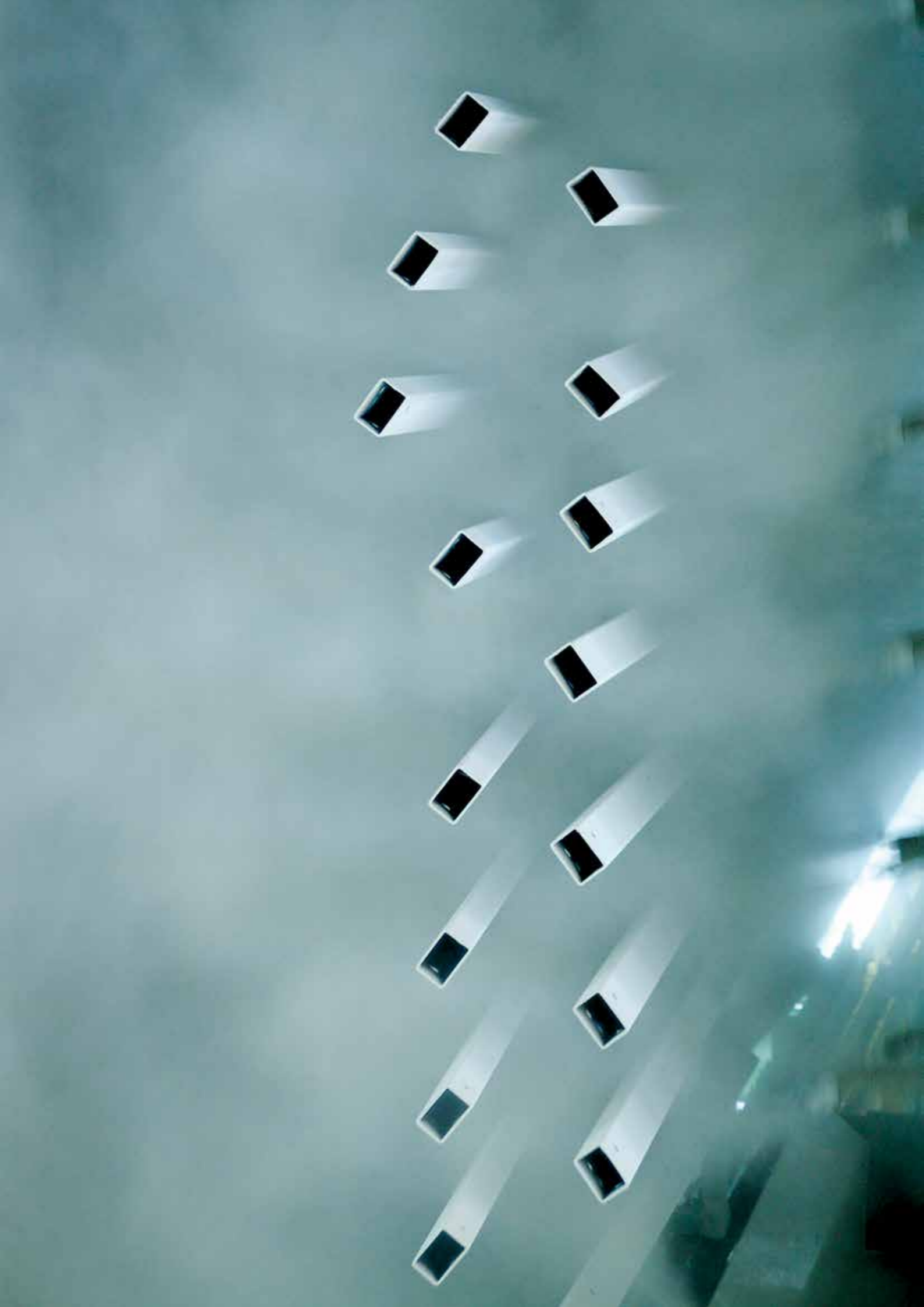
Order no. **BSTLR18012019 + Colour group 2 + RAL colour no. 7035 = Complete order no BSTLR18012019-2-7035**

Specifications are subject to technical changes without notice
 Other widths and heights are available upon request: Phone: 0049 - (0) 5223-79 19 95 - 0 | Fax: 0049 - (0) 5223-79 19 95 - 90

Basic Line
 Extract / accessory items and surcharges

Order no.	Description	Fig.
ZB31004	Clamping element, plastic, black, clamping range 4 mm, with preassembled tapping screw ST 8x40 mm	1
ZB21008	Mesh holder row post (drive-in version), black plastic, for post profile 60x40 mm	2
ZB21012	Mesh holder corner post (drive-in version), black plastic, for post profile 60x40 mm	3
ZB20097	Post cap with collar, black plastic, for post profile 60x40 mm	4
ZB31047	Bottom mesh connector for BL row post for post profile 60x40 mm, with screw	7
ZB31048	Bottom mesh connector for BL universal corner post for post profile 60x40 mm, with screw	11
ZB31049	Bottom mesh connector for BL door post left for post profile 60x40 mm, with screw	9
ZB31050	Bottom mesh connector for BL door post right for post profile 60x40 mm, with screw	10
ZB31051	Assembly set mesh fixing (drive-in version) for BL row post 5 x ZB31004, clamping element, black plastic, 4 mm, with preassembled tapping screw 5 x ZB21008, mesh holder row post (Drive-in version), black plastic 1 x ZB31047, bottom mesh connection for row post left, with screw	5 + 7
ZB31052	Assembly set mesh fixing (drive-in version) for BL corner post or door corner post left 5 x ZB31004, clamping element, black plastic, 4 mm, with preassembled tapping screw 5 x ZB21012, mesh holder row post (drive-in version), black plastic 1 x ZB31049, bottom mesh connection for BL corner post left, with screw	6 + 9
ZB31053	Assembly set mesh fixing (drive-in version) for BL corner post or door corner post right 5 x ZB31004, clamping element, black plastic, 4 mm, with preassembled tapping screw 5 x ZB21012, mesh holder corner post (drive-in version), black plastic 1 x ZB31050, bottom mesh connection for BL corner post right, with screw	6 + 10
ZB20025	Hilti anchor bolt made of carbon steel, galvanised HSA M10 50/40/10 for non-cracked concrete	
ZB20027	Hilti shear connector cartridge HVU M10x90 with anchor rod HAS M10x90/21 for non-cracked concrete	
ZB10103	Universal finger safeguard for all doors from the standard programme, dimensions 300 x 600 mm, galvanised, including fixing and anchoring material, contained within the scope of delivery: Aluminium outside handle stationary, inside handle turnable	13
ZB40001	1- leaf revolving door system completely preassembled ex factory and ready to be installed	
ZB40003	1- leaf sliding door completely preassembled ex factory and ready to be installed	
ZB10075	Chuck for drive-in holder	
S00001	Post insert base, height adjustable (plate 140x140 mm, galvanised)	8
ISO7380 M6x10	Fastening screw for post insert base (2 pieces are required per insert base)	
ZB31054	Assembly set for protective switch (Schmersal AZ16) for 1 leaf standard revolving door	12
ZB40004	Mounting of a safety switch on the door system, without switch, without mounting plate	
ZB20054	Spray paint, RAL 7035 - light grey, 400 ml	
ZB20055	Spray paint, RAL 1021 - rape yellow, 400 ml	
ZB20056	Spray paint, RAL 9005 - jet black silk gloss, 400 ml	
ZB40005	Mesh cut outs and dimensional cuts according to customer layout	
ZB40020	Design / construction of a protective fencing system with respective components with CAD, in 2 or 3 D, with construction plan and identification of components	
	Specifications are subject to technical changes without notice	





RAL colour groups



All products are treated with high-grade powder coating and thereby remain a high surface quality and is more impact and scratch resistant than conventional industrial paints.



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Important:

No binding obligations regarding colour shade or shine can be derived from this RAL colour information sites. This colour chart merely serves as a general reference and is not suitable as a production guideline for colours as defined by RAL. Only the individual colour cards from the RAL 840-HR (semi matt) register and the RAL 841-GL (high gloss) register are binding for manufacturing and checking colours as defined by RAL.

RAL colour groups

RAL colour group 2



RAL 7035

Our standard colours

- RAL 7035 light grey
- RAL 1021 rape yellow
- RAL 9005 jet black

RAL colour group 3

RAL 1000	RAL 1001	RAL 1011	RAL 1013	RAL 1014	RAL 1015	RAL 1019	RAL 5000	RAL 5001	RAL 5002
RAL 5003	RAL 5004	RAL 5005	RAL 5007	RAL 5008	RAL 5009	RAL 5010	RAL 5011	RAL 5012	RAL 5013
RAL 5014	RAL 5015	RAL 5017	RAL 5018	RAL 5019	RAL 5020	RAL 5021	RAL 5022	RAL 5023	RAL 5024
RAL 6000	RAL 6001	RAL 6002	RAL 6003	RAL 6004	RAL 6005	RAL 6006	RAL 6007	RAL 6008	RAL 6009
RAL 6010	RAL 6011	RAL 6012	RAL 6013	RAL 6014	RAL 6015	RAL 6016	RAL 6017	RAL 6018	RAL 6019
RAL 6020	RAL 6021	RAL 6022	RAL 6024	RAL 6025	RAL 6026	RAL 6027	RAL 6028	RAL 6029	RAL 6032
RAL 6033	RAL 6034	RAL 7000	RAL 7001	RAL 7002	RAL 7003	RAL 7004	RAL 7005	RAL 7006	RAL 7008
RAL 7009	RAL 7010	RAL 7011	RAL 7012	RAL 7013	RAL 7015	RAL 7016	RAL 7021	RAL 7022	RAL 7023
RAL 7024	RAL 7026	RAL 7030	RAL 7031	RAL 7032	RAL 7033	RAL 7034	RAL 7036	RAL 7037	RAL 7038
RAL 7039	RAL 7040	RAL 7042	RAL 7043	RAL 7044	RAL 7045	RAL 7046	RAL 7047	RAL 8000	RAL 8001
RAL 8002	RAL 8003	RAL 8004	RAL 8007	RAL 8008	RAL 8011	RAL 8012	RAL 8014	RAL 8015	RAL 8016
RAL 8017	RAL 8019	RAL 8022	RAL 8023	RAL 8024	RAL 8025	RAL 8028	RAL 9001	RAL 9002	RAL 9003

Notes

RAL colour group 3 [continued]

RAL 9004	RAL 9005	RAL 9010	RAL 9011	RAL 9016	RAL 9017	RAL 9018

RAL colour group 4

RAL 1002	RAL 1003	RAL 1004	RAL 1005	RAL 1006	RAL 1007	RAL 1012	RAL 1016	RAL 1017	RAL 1018
RAL 1020	RAL 1021	RAL 1023	RAL 1024	RAL 1026	RAL 1027	RAL 1028	RAL 1032	RAL 1033	RAL 1034
RAL 1037	RAL 2000	RAL 2001	RAL 2002	RAL 2003	RAL 2004	RAL 2005	RAL 2007	RAL 2008	RAL 2009
RAL 2010	RAL 2011	RAL 2012	RAL 3000	RAL 3001	RAL 3002	RAL 3003	RAL 3004	RAL 3005	RAL 3007
RAL 3009	RAL 3011	RAL 3012	RAL 3013	RAL 3014	RAL 3015	RAL 3016	RAL 3017	RAL 3018	RAL 3020
RAL 3022	RAL 3026	RAL 3027	RAL 3031	RAL 4001	RAL 4002	RAL 4003	RAL 4004	RAL 4005	RAL 4006
RAL 4007	RAL 4008	RAL 4009	RAL 4010	RAL 9006	RAL 9007				

Notes



Information on powder coating

All TIEMANN products are treated with high-grade powder coating. The powder coating has a high surface quality and is more impact and scratch resistant than conventional industrial paints. The environmental impact is reduced to a minimum due to the fact that no solvents are used.



The components are phosphate-treated (de-greased / cleaned) before being powder coated



The level of powder coating amounts to 80 - 100 µm, subsequent curing at 180°C in the oven



After a cooling period the mesh sheets are ready for shipping

Colour group 2

RAL 7035	light grey
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Colour group 3

RAL 1000	Green beige	RAL 6002	Leaf green	RAL 7002	Olive grey	RAL 7046	Tele grey 2
RAL 1001	Beige	RAL 6003	Olive green	RAL 7003	Moss grey	RAL 7047	Tele grey 4
RAL 1011	Brown beige	RAL 6004	Blue green	RAL 7004	Signal grey	RAL 8000	Green brown
RAL 1013	Oyster white	RAL 6005	Moss green	RAL 7005	Mouse grey	RAL 8001	Ochre brown
RAL 1014	Ivory	RAL 6006	Grey olive	RAL 7006	Beige grey	RAL 8002	Signal brown
RAL 1015	Light ivory	RAL 6007	Bottle green	RAL 7008	Khaki grey	RAL 8003	Clay brown
RAL 1019	Grey beige	RAL 6008	Brown green	RAL 7009	Green grey	RAL 8004	Cooper brown
RAL 5000	Violet blue	RAL 6009	Fir green	RAL 7010	Tarpaulin grey	RAL 8007	Fawn brown
RAL 5001	Green blue	RAL 6010	Grass green	RAL 7011	Iron grey	RAL 8008	Olive brown
RAL 5002	Ultramarine blue	RAL 6011	Reseda green	RAL 7012	Basalt grey	RAL 8011	Nut brown
RAL 5003	Sapphire blue	RAL 6012	Black green	RAL 7013	Brown grey	RAL 8012	Red brown
RAL 5004	Black blue	RAL 6013	Reed green	RAL 7015	Slate grey	RAL 8014	Sepia brown
RAL 5005	Signal blue	RAL 6014	Yellow olive	RAL 7016	Anthracite grey	RAL 8015	Chetnut brown
RAL 5007	Brilliant blue	RAL 6015	Black olive	RAL 7021	Black grey	RAL 8016	Mahogany brown
RAL 5008	Grey blue	RAL 6016	Turquoise green	RAL 7022	Umbrage grey	RAL 8017	Chocolate brown
RAL 5009	Azure blue	RAL 6017	May green	RAL 7023	Concrete grey	RAL 8019	Grey brown
RAL 5010	Gentian blue	RAL 6018	Yellow green	RAL 7024	Graphite grey	RAL 8022	Black brown
RAL 5011	Steel blue	RAL 6019	White green	RAL 7026	Granite grey	RAL 8023	Orange brown
RAL 5012	Light blue	RAL 6020	Chrome green	RAL 7030	Stone grey	RAL 8024	Beige brown
RAL 5013	Cobalt blue	RAL 6021	Pale green	RAL 7031	Blue grey	RAL 8025	Pale brown
RAL 5014	Pigeon blue	RAL 6022	Olive drab	RAL 7032	Pebble grey	RAL 8028	Terra brown
RAL 5015	Sky blue	RAL 6024	Traffic green	RAL 7033	Cement grey	RAL 9001	Cream
RAL 5017	Traffic blue	RAL 6025	Fern green	RAL 7034	Yellow grey	RAL 9002	Grey white
RAL 5018	Turquoise blue	RAL 6026	Opal green	RAL 7036	Platinum grey	RAL 9003	Signal white
RAL 5019	Capri blue	RAL 6027	Light green	RAL 7037	Dust grey	RAL 9004	Signal black
RAL 5020	Ocean blue	RAL 6028	Pine green	RAL 7038	Agate grey	RAL 9005	Jet black
RAL 5021	Water blue	RAL 6029	Mint green	RAL 7039	Quartz grey	RAL 9010	Pure white
RAL 5022	Night blue	RAL 6032	Signal green	RAL 7040	Window grey	RAL 9011	Graphite black
RAL 5023	Distant blue	RAL 6033	Mint turquoise	RAL 7042	Traffic grey A	RAL 9016	Traffic white
RAL 5024	Pastel blue	RAL 6034	Pastel turquoise	RAL 7043	Traffic grey B	RAL 9017	Traffic black
RAL 6000	Platin green	RAL 7000	Squirrel grey	RAL 7044	Silk grey	RAL 9018	Papyrus white
RAL 6001	Emerald green	RAL 7001	Silver grey	RAL 7045	Tele grey 1		

Colour group 4

RAL 1002	Sand yellow	RAL 1032	Broom yellow	RAL 3001	Signal red	RAL 3026	L. bright red
RAL 1003	Signal yellow	RAL 1033	Dahlia yellow	RAL 3002	Carmine red	RAL 3027	Raspberry red
RAL 1004	Golden yellow	RAL 1034	Pastel yellow	RAL 3003	Ruby red	RAL 3031	Orient red
RAL 1005	Honey yellow	RAL 1037	Sun yellow	RAL 3004	Purple red	RAL 4001	Red lilac
RAL 1006	Maize yellow	RAL 2000	Yellow orange	RAL 3005	Wine red	RAL 4002	Red violet
RAL 1007	Daffodil yellow	RAL 2001	Red orange	RAL 3007	Black red	RAL 4003	Heather violet
RAL 1012	Lemon yellow	RAL 2002	Vermilion	RAL 3009	Oxide red	RAL 4004	Claret violet
RAL 1016	Sulphur yellow	RAL 2003	Pastel orange	RAL 3011	Brown red	RAL 4005	Blue lilac
RAL 1017	Saffron yellow	RAL 2004	Pure orange	RAL 3012	Beige red	RAL 4006	Traffic purple
RAL 1018	Zinc yellow	RAL 2005	Luminous orange	RAL 3013	Tomato red	RAL 4007	Purple violet
RAL 1020	Olive yellow	RAL 2007	L. bright orange	RAL 3014	Antique pink	RAL 4008	Signal violet
RAL 1021	Rape yellow	RAL 2008	Bright red orange	RAL 3015	Light pink	RAL 4009	Pastel violet
RAL 1023	Traffic yellow	RAL 2009	Traffic orange	RAL 3016	Coral red	RAL 4010	Telemagenta
RAL 1024	Ochre yellow	RAL 2010	Signal orange	RAL 3017	Rose	RAL 9006	White aluminium
RAL 1026	Luminous yellow	RAL 2011	Deep orange	RAL 3018	Strawberry red	RAL 9007	Grey aluminium
RAL 1027	Curry	RAL 2012	Salmon orange	RAL 3020	Traffic rot		
RAL 1028	Melon yellow	RAL 3000	Flame red	RAL 3022	Salmon pink		

Alphabetical

A		Flame red	RAL 3000	N		Signal black	RAL 9004
Agate grey	RAL 7038			Night blue	RAL 5022	Signal blue	RAL 5005
Anthracite grey	RAL 7016	G		Nut brown	RAL 8011	Signal brown	RAL 8002
Antique pink	RAL 3014	Gentian blue	RAL 5010			Signal green	RAL 6032
Azure blue	RAL 5009	Golden yellow	RAL 1004	O		Signal grey	RAL 7004
		Granite grey	RAL 7026	Ocean blue	RAL 5020	Signal orange	RAL 2010
B		Graphite black	RAL 9011	Ochre brown	RAL 8001	Signal red	RAL 3001
Basalt grey	RAL 7012	Graphite grey	RAL 7024	Ochre yellow	RAL 1024	Signal violet	RAL 4008
Beige	RAL 1001	Grass green	RAL 6010	Olive brown	RAL 8008	Signal white	RAL 9003
Beige brown	RAL 8024	Green beige	RAL 1000	Olive drab	RAL 6022	Signal yellow	RAL 1003
Beige grey	RAL 7006	Green blue	RAL 5001	Olive green	RAL 6003	Silk grey	RAL 7044
Beige red	RAL 3012	Green brown	RAL 8000	Olive grey	RAL 7002	Silver grey	RAL 7001
Black blue	RAL 5004	Green grey	RAL 7009	Olive yellow	RAL 1020	Sky blue	RAL 5015
Black brown	RAL 8022	Grey aluminium	RAL 9007	Opal green	RAL 6026	Slate grey	RAL 7015
Black grey	RAL 7021	Grey beige	RAL 1019	Orange brown	RAL 8023	Squirrel grey	RAL 7000
Black green	RAL 6012	Grey blue	RAL 5008	Orient red	RAL 3031	Steel blue	RAL 5011
Black olive	RAL 6015	Grey brown	RAL 8019	Oxide red	RAL 3009	Stone grey	RAL 7030
Black red	RAL 3007	Grey olive	RAL 6006	Oyster white	RAL 1013	Strawberry red	RAL 3018
Blue green	RAL 6004	Grey white	RAL 9002			Sulphur yellow	RAL 1016
Blue grey	RAL 7031			P		Sun yellow	RAL 1037
Blue lilac	RAL 4005	H		Pale brown	RAL 8025		
Bright red orange	RAL 2008	Heather violet	RAL 4003	Pale green	RAL 6021	T	
Broom yellow	RAL 1032	Honey yellow	RAL 1005	Papyrus white	RAL 9018	Tarpaulin grey	RAL 7010
Bottle green	RAL 6007			Pastel blue	RAL 5024	Telegrey 1	RAL 7045
Brown beige	RAL 1011	I		Pastel orange	RAL 2003	Telegrey 2	RAL 7046
Brown grey	RAL 7013	Iron grey	RAL 7011	Pastel turquoise	RAL 6035	Telegrey 4	RAL 7047
Brown green	RAL 6008	Ivory	RAL 1014	Pastel yellow	RAL 1034	Telemagenta	RAL 4010
Brown red	RAL 3011			Pastel violet	RAL 4009	Terra brown	RAL 8028
Brilliant blue	RAL 5007	J		Patina green	RAL 6000	Tomato red	RAL 3013
		Jet black	RAL 9005	Pebble grey	RAL 7032	Traffic black	RAL 9017
C				Pigeon blue	RAL 5014	Traffic blue	RAL 5017
Capri blue	RAL 5019	K		Pine green	RAL 6028	Traffic green	RAL 6024
Cement grey	RAL 7033	Khaki grey	RAL 7008	Platinum grey	RAL 7036	Traffic grey A	RAL 7042
Chocolate brown	RAL 8017			Pure orange	RAL 2004	Traffic grey B	RAL 7043
Chrome green	RAL 6020	L		Pure white	RAL 9010	Traffic orange	RAL 2009
Claret violet	RAL 4004	Leaf green	RAL 6002	Purple red	RAL 3004	Traffic purple	RAL 4006
Clay brown	RAL 8003	Lemon yellow	RAL 1012	Purple violet	RAL 4007	Traffic red	RAL 3020
Concrete grey	RAL 7023	Light blue	RAL 5012			Traffic white	RAL 9016
Carmine red	RAL 3002	Light green	RAL 6027	Q		Traffic yellow	RAL 1023
Chestnut brown	RAL 8015	Light grey	RAL 7035	Quartz grey	RAL 7039	Turquoise blue	RAL 5018
Cobalt blue	RAL 5013	Light ivory	RAL 1015			Turquoise green	RAL 6016
Coral red	RAL 3016	Light pink	RAL 3015	R		U	
Copper brown	RAL 8004	L. bright orange	RAL 2007	Rape yellow	RAL 1021	Ultramarine blue	RAL 5002
Cream	RAL 9001	Luminous bright red	RAL 3027	Raspberry red	RAL 3027	Umbrage grey	RAL 7022
Curry	RAL 1027	Luminous orange	RAL 2005	Red brown	RAL 8012	Umbrage grey	RAL 7022
		Luminous red	RAL 3026	Red lilac	RAL 4001	V	
D		Luminous yellow	RAL 1026	Red orange	RAL 2001	Vermilion	RAL 2002
Daffodil yellow	RAL 1007			Red violet	RAL 4002	Violet blue	RAL 5000
Dahlia yellow	RAL 1033	M		Reed green	RAL 6013	W	
Deep orange	RAL 2011	Mahogany brown	RAL 8016	Reseda green	RAL 6011	Water blue	RAL 5021
Distant blue	RAL 5023	Maize yellow	RAL 1006	Rose	RAL 3017	White aluminium	RAL 9006
Dust grey	RAL 7037	May green	RAL 6017	Ruby red	RAL 3003	White green	RAL 6019
		Melon yellow	RAL 1028			Window grey	RAL 7040
E		Mint green	RAL 6029	S		Wine red	RAL 3005
Emerald green	RAL 6001	Mint turquoise	RAL 6033	Saffron yellow	RAL 1017	Y	
		Moss green	RAL 6005	Salmon orange	RAL 2012	Yellow green	RAL 6018
F		Moss grey	RAL 7003	Salmon pink	RAL 3022	Yellow grey	RAL 7034
Fawn brown	RAL 8007	Mouse grey	RAL 7005	Sand yellow	RAL 1002	Yellow olive	RAL 6014
Fern green	RAL 6025			Sapphire blue	RAL 5003	Yellow orange	RAL 2000
Fir green	RAL 6009			Sepia brown	RAL 8014	Z	
						Zinc yellow	RAL 1018





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