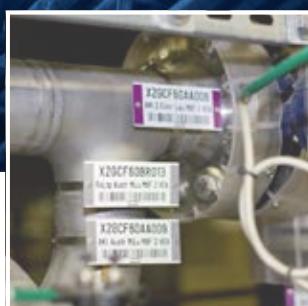


# Safety starts with Stell

## Catalogue 2025

Plant Labelling

Safety Identification



stell

# Safety starts with Stell

## Labelling Solutions. Made by Stell



Dear Business Partner,

we are pleased that you are interested in our company and products. For more than 40 years, we have aimed to ensure that working environments are clear-cut and safe. With our high-quality materials and distinct industry knowledge in the fields of energy, chemicals, maritime, industry and fire protection, we are ready to serve as your qualified partner.

The new catalogue offers a comprehensive product selection when it comes to plant labelling and safety identification. With this catalogue, we are providing you with a resource to help you get to know all our products while also facilitating your selection of the product that is most suitable for you.

We are also happy to develop customised solutions for your specific requirements. Our team of experts will help you with any questions you may have.

We look forward to working with you.

Sincerely,

Jan Bernd Stell, Managing Director of Stell GmbH

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# About the company



Since 1976, we at Stell GmbH have established ourselves as a modern group of medium-sized companies on the market for labelling and signage solutions. Providing comprehension, safety and orientation in buildings, process plants and at sea is our primary goal. High-quality materials and distinct industry knowledge in the fields of energy, chemicals, maritime, industry and fire protection ensure that the working environment is clear-cut and safe for personnel and employees.

The labelling of plants as well as safety identification are among our core competencies. As a global group of companies with branches in Germany and the Netherlands, we work together with our partners and customers to ensure comprehensive, effective and correct labelling solutions.

Our aim is to offer you a 100% carefree package. Our business approach allows us to offer you a one-stop-shop for all steps of the process chain. Project planning, production, on-site installation and documentation supervised by qualified consulting – our labelling solutions represent a complete package. Thanks to this approach we provide optimal coverage for all customer requirements. In addition, we have built up a close-knit network of competent and reliable partners and suppliers to provide extra services whenever needed.

## The Stell group at a glance

### Enduring and reliable

- Over 45 years of experience
- Owner-operated Group of family businesses
- Numerous framework agreements with large corporations
- Sector-specific project references

### Competent and customer-oriented

- 110 employees worldwide
- 90% added value in our own company
- 3,500 m<sup>2</sup> production and storage space with 7,500 stocked products
- Internationally networked and globally active

### Certified and committed

- DIN membership in NASG / NSMT
- Chair of the ISO TC 145 / SC 2
- Safety certificates SCCP / VCA
- Quality certificates ISO 9001 / Wheelmark D
- IMO-certified products / Wheelmark B

# Our business approach – Labelling in a complete package

We take a systematic approach – from the consulting phase through to project completion. Our company independently covers each and every step that's involved and is therefore able to respond to your specific project planning. The range of products and services we offer is seamlessly linked and simplifies project implementation in the process.



## Step 1: **PROJECT PLANNING**

Our employees conduct on-site visits to record and examine all the specific requirements involved, thus laying the groundwork for proper project implementation. This procedure allows the material design, relevant quantities, signage text and installation locations to be precisely defined and, if desired, coordinated with you. In the event of missing P&IDs or plans, we'll check and draw new documents for you so that your project can get off to an effective start.



## Step 2: **PRODUCTION**

The signs and plans are produced according to high quality standards in Bocholt, Germany. This process is flexibly adjusted to the project plan and can be revised if necessary. We also have a well-stocked warehouse with standardised signs and fastening materials that are on hand to ensure smooth project processing.



## Step 3: **INSTALLATION**

Fifty permanently employed, SCC-certified fitters with sound background knowledge and independent working methods come on site to install the signs exactly where they need to be. In performing this task, they refer to the relevant P&IDs and plans. Our team leaders regularly confers with you on the project's progress and documents it along the way. If desired, this documentation can be done in digital format.

# Our products are systematically installed



## Plant labelling

### Process plant labelling must be systematic.

Our signs and the appropriate fastening materials allow you to employ a uniform approach to labelling components, pipes and containers. Systematically aligned with each other, recognisability, consistency and resistance to environmental influences go hand in hand.

## Safety signs

### Labelling must provide recognition value.

We offer reliable health and safety signing in accordance with current standards and laws. Various sizes and fastening options are available from stock as standard. In addition, we produce the signs you require using internationally standardised symbols as well as instructions or texts that are tailored to your needs.

## Plans and signs for the fire brigade

### Preventive fire protection is a matter of trust.

We know the current standards, but we always adapt your plans to the needs of the emergency services on site. Fire brigade plans and route maps are prepared by us – professional on-site survey included. In collaborating with our customers, we use the latest drawing software for our work and thus ensure clear instructions where they are needed.

## Industrial signs

### Made in Germany! Durable products require steadfast quality.

Our robust signs can withstand harsh environments and display the desired information in the long term. Whether it's for your scales, identification plates, labels or machine plates, we'll find the right material and an approach that's properly adapted to your production site.

## Smart signs

### Signs can be SMART too.

Mobile applications offer greater process reliability and efficiency for inspections and maintenance work. Our Auto-ID-capable signs provide the ideal starting point to clearly identify your equipment and link it to the modern app system.

# Plant Labelling



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# Introduction



To achieve clear understanding and sustainable work in energy and chemical plants, a distinct knowledge of plant components, pipes, tanks, containers is necessary. These days, straightforward plant labelling is indispensable.

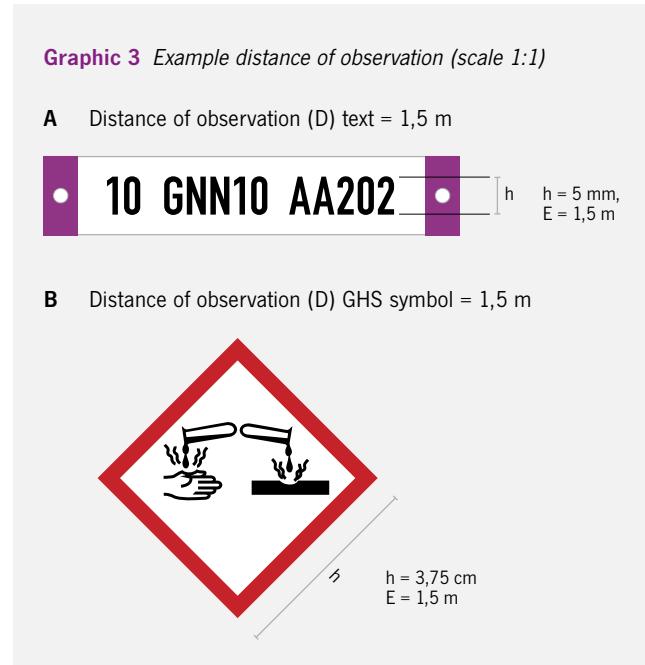
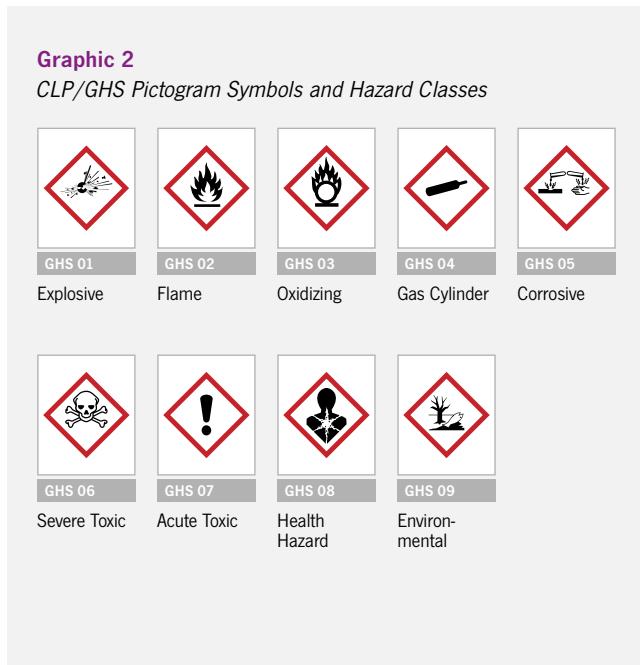
In order to create a safe and comprehensive work environment it needs suitable planning, correct choice of the required labelling and professional fastening of the signs – which Stell offers as a complete package. During the planning phase we evaluate the on-site situation and the existing documentation. Should the required documentation, e.g. sign lists or up-to-date P&IDs, not be available we'll be happy to compile these for you, already taking into consideration the best choice of products and fastening materials. During the next phase, our expert staff independently carries out the labelling in a safe and professional manner for you. All of these tasks are included in the labelling project documentation (also in digital form of your choice) that will be handed out to you upon completion of the project or agreed parts of the project.

Thanks to a sophisticated product range, we are able to aid in providing comprehension and efficiency at your location. Whether specific identification Systems for Power Stations (KKS), plant labelling systems or customer coding, our signs permanently and concisely display essential information, facilitate communication and serve as a visual aid for you and your employees in your daily work. In addition, proper plant labelling helps to prevent operator errors or accidents and reduces the operating, maintenance and servicing costs throughout the entire service life.

**Graphic 1** Group and additional colour of the fluid content (DIN 2403)

Application	Oxygen	Water	Steam	Air	Flammable gases	Non flammable gases	Acids	Alkalies	Flammable liquids and solids	Non flammable liquids and solids
<i>Group colour</i>	RAL5005	RAL6032	RAL3001	RAL7004	RAL1003	RAL1003	RAL2010	RAL4008	RAL8002	RAL8002
<i>Additional colour</i>	-	-	-	-	RAL3001	RAL9004	-	-	RAL3001	RAL9004
<i>Text colour</i>	RAL9003*	RAL9003*	RAL9003*	RAL9004	RAL9004	RAL9004	RAL9004	RAL9003*	RAL9003*	RAL9003*

\* white



**Compulsory labelling and its implementation – standards and laws**  
Plant labelling is either regulated by international law in its various areas of application, or existing standards apply as directives. In Europe, safety-relevant labels are required by law – especially at the workplace. In addition to the above mentioned identification Systems for Power Stations (KKS) or its successors – the Reference Designation System for Power Plants and plant labelling system – there are further regulations, standards and laws which are crucial to plant labelling.

Generally, plant labelling requires the labelling to be concise and in accordance with the latest technological standards.

Our labelling is designed according to German standard DIN 2403 (see **graphic 1**) as well as Germany's Gefahrstoffverordnung (GefStoffV, see **graphic 2**), or "Ordinance on Hazardous Substances", and can be adapted to your individual needs. We would be pleased to advise you on your labelling obligations, functional set-ups and our in-house labelling systems.

#### How to label according to German DIN standards

With DIN 2403, the German Institute for Standardization defines the currently valid technology standard for labelling pipes according to their content for above ground pipes on land. In DIN 2403, the following components are defined as compulsory minimum specifications:

- Group and additional colour of the content
- Flow direction
- Indication of the fluid content

Other indicators (pressure, temperature, etc.) are optional.

Furthermore, the standard specifies how large a label should be depending on its distance of observation, and it makes several labelling recommendations that should be followed.

#### Specify the correct distance of observation

A formula is used for calculating and deciding on a label's size (see **graphic 3**) and the font height.

$$D = h \times Z$$

#### Whereby:

- D = the distance of observation,
- h = the font height, resp. symbol height
- Z = the distance factor.

300 for letters and numbers  
40 for hazard symbols

For us, the distance of observation is determined on two levels. Either the correct font height can be calculated from the desired distance of observation on site, or, depending on the maximum distance of observation, the correct installation location for the labelling can be determined from the potential font height at the site.

## Original Stell "Stecksystem"



The original Stell "Stecksystem" is a patented product for plant labelling that is specially designed for the labelling of components. Consisting of a sign-bracket, a slide-in profile, individually insertable symbols (letters, numbers etc.) and outer elements, the "Stecksystem" allows you to individually handle and design your sign. All symbols can be exchanged and contents can be adjusted when required.

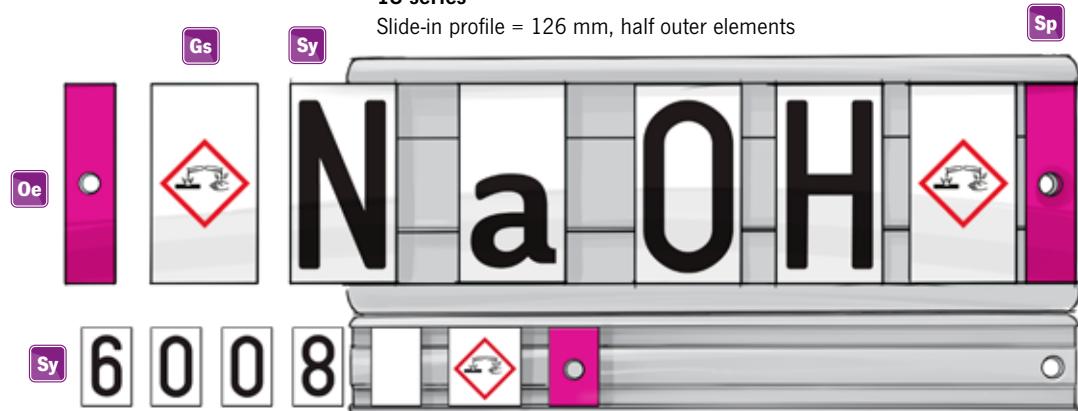
Codings and information are flexibly compiled as individual symbols and can be supplemented with hazardous substance or GHS pictograms, the medium's desired flow direction and its group colour in accordance with DIN 2403. The "Stecksystem" is available in various series which can be ideally combined, regardless of size.

Two material designs are available for all series. Our trademark Luxotherm® plastic offers tremendous resistance against UV radiation and contains zero chlorides. All symbols and slide-in profiles are also available as aluminium versions should temperatures in the application area be higher. On request, the original Stell "Stecksystem" can be delivered with the necessary fastening material.

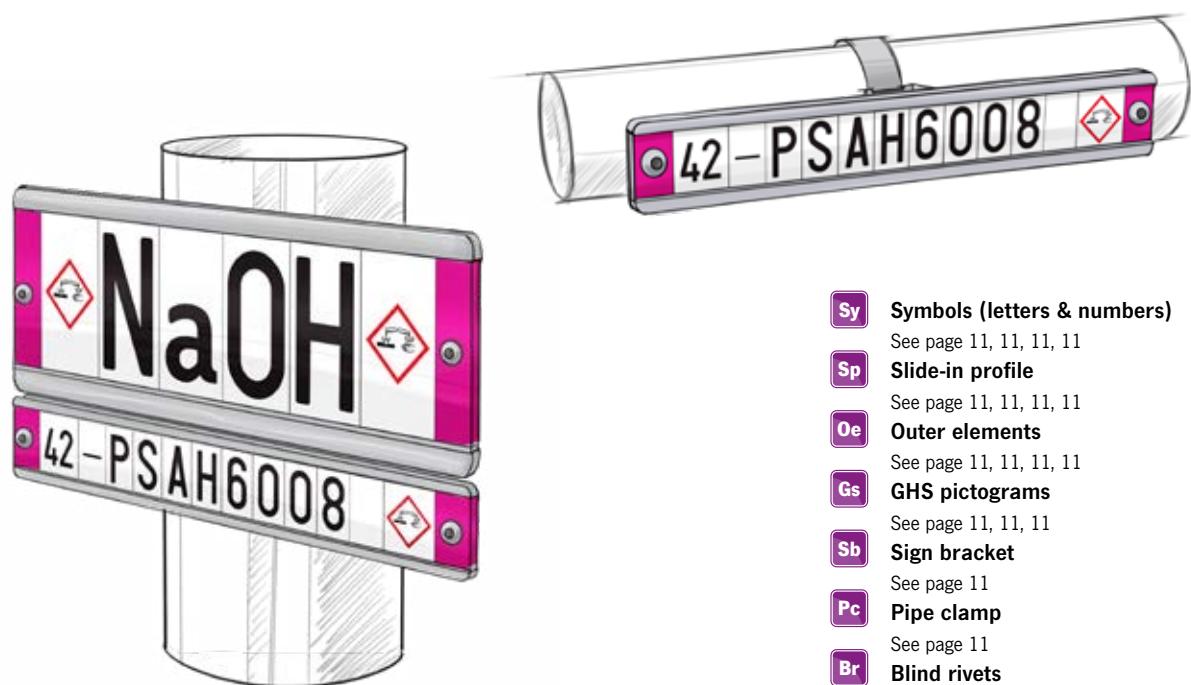
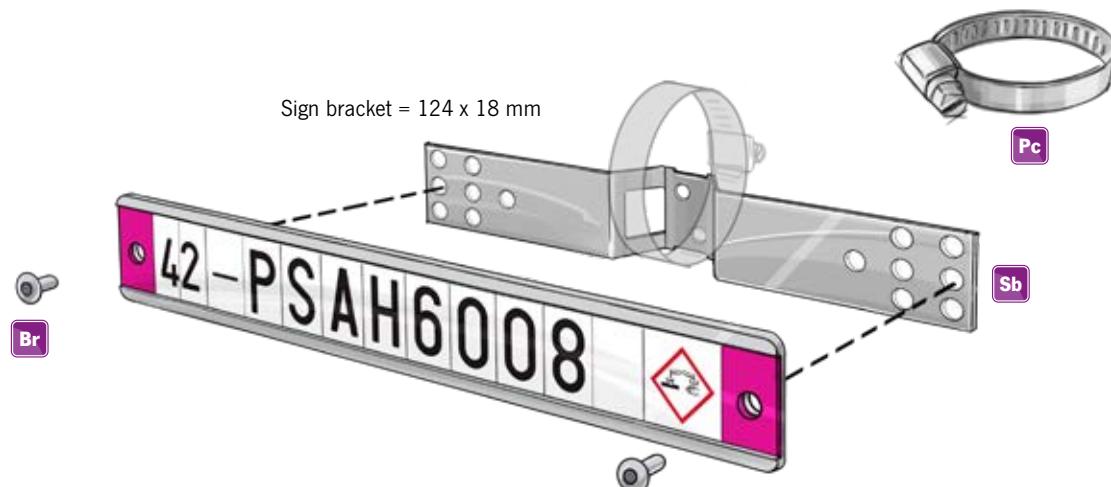


**18 series**

Slide-in profile = 126 mm, half outer elements

**06/09 series**

Slide-in profile = 126 mm, full outer elements

**Sy** Symbols (letters & numbers)

See page 11, 11, 11, 11

**Sp** Slide-in profile

See page 11, 11, 11, 11

**Oe** Outer elements

See page 11, 11, 11, 11

**Gs** GHS pictograms

See page 11, 11, 11

**Sb** Sign bracket

See page 11

**Pc** Pipe clamp

See page 11

**Br** Blind rivets

See page 11



### Symbol count and distance of observation

As the height of the font determines the distance of observation of your sign we offer the "Stecksystem" in different series, providing good visibility at close and long range. Having determined the required distance of observation and the corresponding font height you will now have to choose the number of symbols.

The overview shows how many characters and symbols will fit in a slide-in profile of a given length. Additionally, on the right side you can find a few examples of possible combinations of these series and the integration of special symbols as e.g. the GHS pictograms.

### Possible combinations of the "Stecksystem" series

	45 series	06 series	09 series	18 series
	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
<b>Font height</b>	5 mm	8 mm	10 mm	30 mm
<b>Observation distance</b>	<b>1,5 m</b>	<b>2,4 m</b>	<b>3 m</b>	<b>9 m</b>
<b>Slide-in profile</b>	<b>Symbol count (with full outer elements)</b>			
45 mm	<b>6</b>	–	–	–
54 mm	<b>8</b>	–	–	–
63 mm	<b>10</b>	–	–	–
72 mm	<b>12</b>	<b>9</b>	6	2 / 3*
81 mm	<b>14</b>	–	–	–
90 mm	<b>16</b>	12	<b>8</b>	3 / 4*
99 mm	<b>18</b>	–	–	–
108 mm	<b>20</b>	15	10	4 / 5*
126 mm	<b>24</b>	18	12	<b>5 / 6*</b>
144 mm	<b>28</b>	21	14	6 / 7*
162 mm	<b>32</b>	24	16	7 / 8*
180 mm	<b>36</b>	27	18	8 / 9*
198 mm	–	30	20	9 / 10*
216 mm	–	33	22	10 / 11*
234 mm	–	36	24	11 / 12*
252 mm	–	39	26	12 / 13*
270 mm	–	42	28	13 / 14*
288 mm	–	45	30	14 / 15*
306 mm	–	48	32	15 / 16*
324 mm	–	51	34	16 / 17*
342 mm	–	–	–	17 / 18*
360 mm	–	–	–	18 / 19*

– = length not available

\*half outer elements

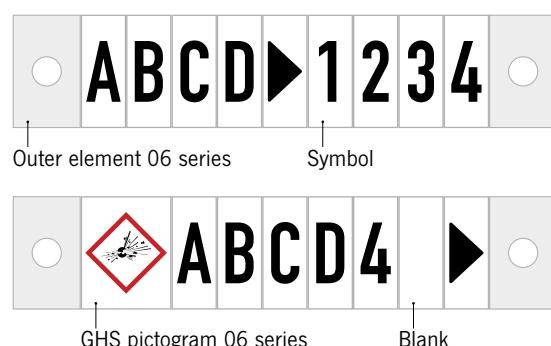
= example on page 13

## Examples in original size

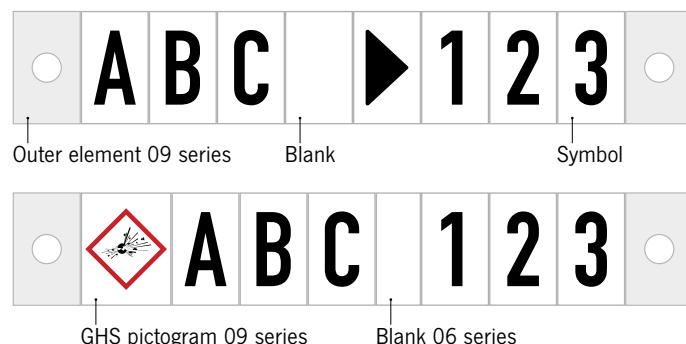
## 45 Series



## 06 Series



## 09 Series

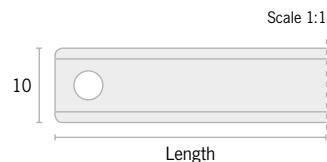


## 18 Series



## 45 Series

Distance of observation 1,5 m



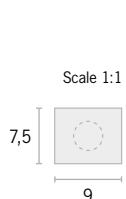
### Sp Slide-in profiles

Material	Quantity	Article
Chlorid free plastic <b>P</b> / Aluminium, anodised <b>A</b>	25 pieces	0002
<hr/>		
Length	Number of symbols*	Mat.
45 mm	6	Order-No. <b>P</b> 02061 <b>A</b> 02049 Price € 8,50 € 12,75
54 mm	8	Order-No. <b>P</b> 02062 <b>A</b> 02050 Price € 9,25 € 13,50
63 mm	10	Order-No. <b>P</b> 02063 <b>A</b> 02051 Price € 10,00 € 14,25
72 mm	12	Order-No. <b>P</b> 02064 <b>A</b> 02052 Price € 10,75 € 15,00
81 mm	14	Order-No. <b>P</b> 02065 <b>A</b> 02053 Price € 11,50 € 15,75
90 mm	16	Order-No. <b>P</b> 02066 <b>A</b> 02054 Price € 12,25 € 16,50
99 mm	18	Order-No. <b>P</b> 02067 <b>A</b> 02055 Price € 13,00 € 17,25
108 mm	20	Order-No. <b>P</b> 02068 <b>A</b> 02056 Price € 13,75 € 18,00
126 mm	24	Order-No. <b>P</b> 02069 <b>A</b> 02057 Price € 15,25 € 19,50
144 mm	28	Order-No. <b>P</b> 02070 <b>A</b> 02058 Price € 16,75 € 21,00
162 mm	32	Order-No. <b>P</b> 02071 <b>A</b> 02059 Price € 18,25 € 22,50

\*The number of symbols takes into account that 2 outer elements are always added.

### Fastening

Find the suitable fastening from our system starting on page 65



## 0e Outer elements

Material

Luxotherm® L / Aluminium, anodised A

Quantity

15 pieces

Article

0001

### DIN 2403

Design	Mat.	No colour	
		Neutral	Group 0
without hole	Order-No. L	<b>02338</b>	<b>02322</b>
	Price	€ 1,15	€ 1,15
with hole	Order-No. A	<b>02318</b>	<b>02302</b>
	Price	€ 2,10	€ 2,10
	Order-No. L	<b>02337</b>	<b>02321</b>
	Price	€ 1,15	€ 1,15
	Order-No. A	<b>02317</b>	<b>02301</b>
	Price	€ 2,10	€ 2,10

### Oxygen

### Water

### Steam

### Air

### Neutral

### Group 0

### Group 1

### Group 2

### Group 3

### Gases

### Acids

### Alkalies

### Liquids and solids

### Additional colour

### RAL1003

### RAL2010

### RAL4008

### RAL8002

### Black

### Group 4/5

### Group 6

### Group 7

### Group 8/9

### Zusatz

### Design

### Mat.

### No colour

### RAL5015

### RAL6018

### RAL3001

### RAL7001

### Neutral

### Group 0

### Group 1

### Group 2

### Group 3

### ISO 20560

### Design

### Mat.

### No colour

### Air

### Water

### Firefighting medium

### Gases

### without hole

### Order-No. L

### 32398

### 32366

### 32374

### 32362

### 32372

### Order-No. A

### 32396

### 32348

### 32356

### 32344

### 32354

### with hole

### Order-No. L

### 32397

### 32365

### 32373

### 32361

### 32371

### Order-No. A

### 32395

### 32347

### 32355

### 32343

### 32353

### Price

### € 1,15

### € 1,15

### € 1,15

### € 1,15

### € 2,10

### Design

### Mat.

### No colour

### RAL2003

### RAL4001

### RAL9004

### RAL1003

### Neutral

### Group 0

### Group 1

### Group 2

### Group 3

### Acids

### Alkalies (leaches)

### Liquids and fixed materials

### Safety colour

### Hazardous substances

### without hole

### Order-No. L

### 32376

### 32360

### 32370

### 32364

### € 1,15

### Order-No. A

### 32358

### 32342

### 32352

### 32346

### € 2,10

### with hole

### Order-No. L

### 32375

### 32359

### 32369

### 32363

### € 1,15

### Order-No. A

### 32357

### 32341

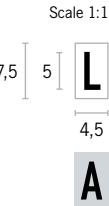
### 32351

### 32345

### € 2,10

## 45 Series

Distance of observation 1,5 m



Scale 1:1

### Sy Symbols

#### Material (colours)

Luxotherm® L (white/black) / Aluminium, anodised A silver/black)

Quantity

25 pieces Article

Mat.	A	a	B	b	C	c	D	d	E	e	
Order-No. L	01906	01939	01908	01941	01909	01942	01910	01943	01911	01944	
Price	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	

Order-No. A	01816	01849	01818	01851	01819	01852	01820	01853	01821	01854	
Price	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	

Mat.	F	f	G	g	H	h	I	i	J	j	
Order-No. L	01912	01945	01913	01946	01914	01947	01915	01948	01916	01949	
Price	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	

Order-No. A	01822	01855	01823	01856	01824	01857	01825	01858	01826	01859	
Price	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	

Mat.	K	k	L	l	M	m	N	n	O	o	
Order-No. L	01917	01950	01918	01951	01919	01952	01920	01953	01921	01954	
Price	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	

Order-No. A	01827	01860	01828	01861	01829	01862	01830	01863	01831	01864	
Price	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	

Mat.	P	p	Q	q	R	r	S	s	T	t	
Order-No. L	01923	01956	01924	01957	01925	01958	01926	01959	01927	01960	
Price	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	

Order-No. A	01833	01866	01834	01867	01835	01868	01836	01869	01837	01870	
Price	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	

Mat.	U	u	V	v	W	w	X	x	Y	y	
Order-No. L	01928	01961	01930	01963	01931	01964	01932	01965	01933	01966	
Price	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	€ 1,05	

Order-No. A	01838	01871	01840	01873	01841	01874	01842	01875	01843	01876	
Price	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	€ 1,90	

<b>Z</b>	<b>z</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	
<i>Mat.</i>										
Order-No. <b>L</b> Price	01934 € 1,05	01967 € 1,05	01982 € 1,05	01983 € 1,05	01984 € 1,05	01985 € 1,05	01986 € 1,05	01987 € 1,05	01988 € 1,05	01989 € 1,05
Order-No. <b>A</b> Price	01844 € 1,90	01877 € 1,90	01892 € 1,90	01893 € 1,90	01894 € 1,90	01895 € 1,90	01896 € 1,90	01897 € 1,90	01898 € 1,90	01899 € 1,90

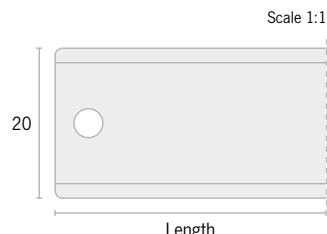
<b>8</b>	<b>9</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>!</b>	<b>:</b>	
<i>Mat.</i>										
Order-No. <b>L</b> Price	01990 € 1,05	01991 € 1,05	01935 € 1,05	01979 € 1,05	01936 € 1,05	01980 € 1,05	01937 € 1,05	01981 € 1,05	01903 € 1,05	01904 € 1,05
Order-No. <b>A</b> Price	01900 € 1,90	01901 € 1,90	01845 € 1,90	01889 € 1,90	01846 € 1,90	01890 € 1,90	01847 € 1,90	01891 € 1,90	01813 € 1,90	01814 € 1,90

<b>=</b>	<b>+</b>	<b>(</b>	<b>&gt;</b>	<b>,</b>	<b>.</b>	<b>-</b>	<b>▶</b>	<b>▲</b>	<b>±</b>	
<i>Mat.</i>										
Order-No. <b>L</b> Price	01905 € 1,05	01975 € 1,05	01938 € 1,05	01968 € 1,05	01969 € 1,05	01977 € 1,05	01971 € 1,05	01972 € 1,05	01973 € 1,05	01974 € 1,05
Order-No. <b>A</b> Price	01815 € 1,90	01885 € 1,90	01848 € 1,90	01878 € 1,90	01879 € 1,90	01887 € 1,90	01881 € 1,90	01882 € 1,90	01883 € 1,90	01884 € 1,90

<b>%</b>	<b>/</b>	<b>"</b>		
<i>Mat.</i>				
Order-No. <b>L</b> Price	01976 € 1,05	01978 € 1,05	01992 € 1,05	01970 € 1,05
Order-No. <b>A</b> Price	01886 € 1,90	01888 € 1,90	01902 € 1,90	01880 € 1,90

## 06 Series

Distance of observation 2,4 m

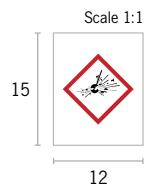


### Sp Slide-in profiles

Material	Quantity	Article
Chlorid free plastic <b>P</b> / Aluminium, anodised <b>A</b>	25 pieces	0002
<i>Length</i>		
72 mm	9	
90 mm	12	
108 mm	15	
126 mm	18	
144 mm	21	
162 mm	24	
180 mm	27	
198 mm	30	
216 mm	33	
234 mm	36	
252 mm	39	
270 mm	42	
288 mm	45	
306 mm	48	
324 mm	51	
Mat. 02008 A 01993 Price € 13,75 € 20,00		
Order-No. <b>P</b> 02009 A 01994 Price € 15,00 € 21,25		
Order-No. <b>P</b> 02010 A 01995 Price € 16,25 € 21,50		
Order-No. <b>P</b> 02011 A 01996 Price € 17,50 € 23,75		
Order-No. <b>P</b> 02012 A 01997 Price € 18,75 € 25,00		
Order-No. <b>P</b> 02013 A 01998 Price € 20,00 € 26,25		
Order-No. <b>P</b> 02014 A 01999 Price € 21,25 € 27,50		
Order-No. <b>P</b> 02015 A 02000 Price € 21,50 € 28,75		
Order-No. <b>P</b> 02016 A 02001 Price € 23,75 € 30,00		
Order-No. <b>P</b> 02017 A 02002 Price € 25,00 € 31,25		
Order-No. <b>P</b> 02018 A 02003 Price € 26,25 € 32,50		
Order-No. <b>P</b> 02019 A 02004 Price € 27,50 € 33,75		
Order-No. <b>P</b> 02020 A 02005 Price € 30,00 € 36,25		
Order-No. <b>P</b> 02021 A 02006 Price € 32,50 € 39,25		
Order-No. <b>P</b> 02022 A 02007 Price € 35,00 € 41,75		

\*The number of symbols takes into account that there are always two additional outer elements.  
1 GHS symbol has the same width as 2 symbols.

### Gs GHS pictograms



Material	Quantity	Article
Luxotherm® <b>L</b> / Aluminium, anodised <b>A</b>	10 pieces	0003



Mat.	GHS 01
Order-No. <b>L</b> Price	01246 € 1,65
Order-No. <b>A</b> Price	01237 € 3,30

Mat.	GHS 02
Order-No. <b>L</b> Price	01247 € 1,65
Order-No. <b>A</b> Price	01238 € 3,30

Mat.	GHS 03
Order-No. <b>L</b> Price	01248 € 1,65
Order-No. <b>A</b> Price	01239 € 3,30

Mat.	GHS 04
Order-No. <b>L</b> Price	01249 € 1,65
Order-No. <b>A</b> Price	01240 € 3,30

Mat.	GHS 05
Order-No. <b>L</b> Price	01250 € 1,65
Order-No. <b>A</b> Price	01241 € 3,30

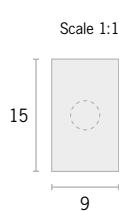


Mat.	GHS 06
Order-No. <b>L</b> Price	01251 € 1,65
Order-No. <b>A</b> Price	01242 € 3,30

Mat.	GHS 07
Order-No. <b>L</b> Price	01252 € 1,65
Order-No. <b>A</b> Price	01243 € 3,30

Mat.	GHS 08
Order-No. <b>L</b> Price	01253 € 1,65
Order-No. <b>A</b> Price	01244 € 3,30

Mat.	GHS 09
Order-No. <b>L</b> Price	01254 € 1,65
Order-No. <b>A</b> Price	01245 € 3,30



## 0e Outer elements

Material	Quantity	Article
Luxotherm® <b>L</b> (yellow/black)   <b>L</b> (white/black) / Aluminium, anodised <b>A</b> silver/black)	15 pieces	0001

### DIN 2403

Design		Mat.	No colour	Oxygen	Water	Steam	Air
		Neutral	RAL5005	Group 0	Group 1	Group 2	Group 3
without hole	Order-No. <b>L</b>	<b>41694</b>					
	Price	€ 1,30					
	Order-No. <b>L</b>	<b>02110</b>	<b>02094</b>	<b>02096</b>	<b>02098</b>	<b>02100</b>	<b>02100</b>
with hole	Order-No. <b>A</b>	<b>02090</b>	<b>02074</b>	<b>02076</b>	<b>02078</b>	<b>02080</b>	<b>02080</b>
	Price	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40
	Order-No. <b>L</b>	<b>41695</b>					
with hole	Order-No. <b>L</b>	<b>02109</b>	<b>02093</b>	<b>02095</b>	<b>02097</b>	<b>02099</b>	<b>02099</b>
	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
	Order-No. <b>A</b>	<b>02089</b>	<b>02073</b>	<b>02075</b>	<b>02077</b>	<b>02079</b>	<b>02079</b>
with hole	Price	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40

### Gases

RAL1003  
Group 4/5

### Acids

RAL2010  
Group 6

### Alkalies

RAL4008  
Group 7

### Liquids and solids

RAL8002  
Group 8/9

### Additional colour

Black  
Zusatz

### Design

Design	Mat.	Order-No. <b>L</b>	02102	02104	02106	02108	02112
	Neutral	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
without hole	Order-No. <b>A</b>	<b>02082</b>		<b>02084</b>	<b>02086</b>	<b>02088</b>	<b>02092</b>
	Price	€ 2,40		€ 2,40	€ 2,40	€ 2,40	€ 2,40
with hole	Order-No. <b>L</b>	<b>02101</b>		<b>02103</b>	<b>02105</b>	<b>02107</b>	<b>02111</b>
	Price	€ 1,30		€ 1,30	€ 1,30	€ 1,30	€ 1,30
with hole	Order-No. <b>A</b>	<b>02081</b>		<b>02083</b>	<b>02085</b>	<b>02087</b>	<b>02091</b>
	Price	€ 2,40		€ 2,40	€ 2,40	€ 2,40	€ 2,40

### ISO 20560

Design		Mat.	No colour	Air	Water	Firefighting medium	Gases
		Neutral	RAL5015	Group 4/5	Group 6	Group 7	Group 8/9
without hole	Order-No. <b>L</b>	<b>32380</b>		<b>32138</b>	<b>32146</b>	<b>32134</b>	<b>32144</b>
	Price	€ 1,30		€ 1,30	€ 1,30	€ 1,30	€ 1,30
	Order-No. <b>A</b>	<b>32378</b>		<b>32120</b>	<b>32128</b>	<b>32116</b>	<b>32126</b>
with hole	Order-No. <b>L</b>	<b>32379</b>		<b>32137</b>	<b>32145</b>	<b>32133</b>	<b>32143</b>
	Price	€ 1,30		€ 1,30	€ 1,30	€ 1,30	€ 1,30
	Order-No. <b>A</b>	<b>32377</b>		<b>32119</b>	<b>32127</b>	<b>32115</b>	<b>32125</b>
with hole	Price	€ 2,40		€ 2,40	€ 2,40	€ 2,40	€ 2,40

### Acids

RAL2003

### Alkalies (leaches)

RAL4001

### Liquids and fixed materials

RAL9004

### Safety colour

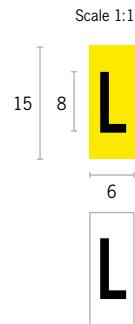
Hazardous substances  
RAL1003

### Design

Design	Mat.	Order-No. <b>L</b>	32148	32132	32142	32136
	Neutral	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30
without hole	Order-No. <b>A</b>	<b>32130</b>		<b>32114</b>	<b>32124</b>	<b>32118</b>
	Price	€ 2,40		€ 2,40	€ 2,40	€ 2,40
	Order-No. <b>L</b>	<b>32147</b>		<b>32131</b>	<b>32141</b>	<b>32135</b>
with hole	Price	€ 1,30		€ 1,30	€ 1,30	€ 1,30
	Order-No. <b>A</b>	<b>32129</b>		<b>32113</b>	<b>32123</b>	<b>32117</b>
with hole	Price	€ 2,40		€ 2,40	€ 2,40	€ 2,40

## 06 Series

Distance of observation 2,4 m



### Sy Symbols

#### Material (colours)

Luxotherm® **L** (yellow/black) | **L** (white/black) / Aluminium, anodised **A** silver/black)

Quantity 20 pieces Article 0003



Mat.	01062	01128	01066	01132	01068	01134	01070	01136	01072	01138
Order-No.	<b>L</b>									
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Mat.	01063	01129	01067	01133	01069	01135	01071	01137	01073	01139
Order-No.	<b>L</b>									
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Mat.	00969	01002	00971	01004	00972	01005	00973	01006	00974	01007
Order-No.	<b>A</b>									
Price	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00



Mat.	01074	01140	01076	01142	01078	01144	01080	01146	01082	01148
Order-No.	<b>L</b>									
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Mat.	01075	01141	01077	01143	01079	01145	01081	01147	01083	01149
Order-No.	<b>L</b>									
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Mat.	00975	01008	00976	01009	00977	01010	00978	01011	00979	01012
Order-No.	<b>A</b>									
Price	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00



Mat.	01084	01150	01086	01152	01088	01154	01090	01156	01092	01158
Order-No.	<b>L</b>									
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Mat.	01085	01151	01087	01153	01089	01155	01091	01157	01093	01159
Order-No.	<b>L</b>									
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Mat.	00980	01013	00981	01014	00982	01015	00983	01016	00984	01017
Order-No.	<b>A</b>									
Price	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00



Mat.	01096	01162	01098	01164	01100	01166	01102	01168	01104	01170
Order-No.	<b>L</b>									
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Mat.	01097	01163	01099	01165	01101	01167	01103	01169	01105	01171
Order-No.	<b>L</b>									
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Mat.	00986	01019	00987	01020	00988	01021	00989	01022	00990	01023
Order-No.	<b>A</b>									
Price	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00

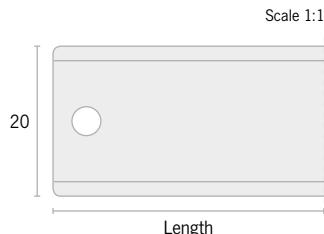


Mat.	01106	01172	01110	01176	01112	01178	01114	01180	01116	01182
Order-No.	<b>L</b>									
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Mat.	01107	01173	01111	01177	01113	01179	01115	01181	01117	01183
Order-No.	<b>L</b>									
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Mat.	00991	01024	00993	01026	00994	01027	00995	01028	00996	01029
Order-No.	<b>A</b>									
Price	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00

Z	z	0	1	2	3	4	5	6	7
Mat.									
Order-No. <b>L</b>	01118	01184	01214	01216	01218	01220	01222	01224	01226
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Order-No. <b>L</b>	01119	01185	01215	01217	01219	01221	01223	01225	01227
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Order-No. <b>A</b>	00997	01030	01045	01046	01047	01048	01049	01050	01051
Price	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00
8	9	2	2	3	3	4	4	!	:
Mat.									
Order-No. <b>L</b>	01230	01232	01120	01208	01122	01210	01124	01212	01056
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Order-No. <b>L</b>	01231	01233	01121	01209	01123	01211	01125	01213	01057
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Order-No. <b>A</b>	01053	01054	00998	01042	00999	01043	01000	01044	00966
Price	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00
=	+	(	)	,	.	-	▶	▼	±
Mat.									
Order-No. <b>L</b>	01060	01200	01126	01186	01188	01204	01192	01194	01196
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Order-No. <b>L</b>	01061	01201	01127	01187	01189	01205	01193	01195	01197
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10	€ 1,10
Order-No. <b>A</b>	00968	01038	01001	01031	01032	01040	01034	01035	01036
Price	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00	€ 2,00
%	/	"							
Mat.									
Order-No. <b>L</b>	01202	01206	01234	01190					
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10					
Order-No. <b>L</b>	01203	01207	01235	01191					
Price	€ 1,10	€ 1,10	€ 1,10	€ 1,10					
Order-No. <b>A</b>	01039	01041	01055	01033					
Price	€ 2,00	€ 2,00	€ 2,00	€ 2,00					

## 09 Series

Distance of observation 3 m



## Sp Slide-in profiles

## Material

Chlorid free plastic **P** / Aluminium, anodised **A**

Quantity	Article
25 pieces	0002

Length	Number of symbols*	Mat.	Mat.
72 mm	6	Order-No. P 02008	A 01993
		Price € 13,75	€ 20,00
90 mm	8	Order-No. P 02009	A 01994
		Price € 15,00	€ 21,25
108 mm	10	Order-No. P 02010	A 01995
		Price € 16,25	€ 21,50
126 mm	12	Order-No. P 02011	A 01996
		Price € 17,50	€ 23,75
144 mm	14	Order-No. P 02012	A 01997
		Price € 18,75	€ 25,00
162 mm	16	Order-No. P 02013	A 01998
		Price € 20,00	€ 26,25
180 mm	18	Order-No. P 02014	A 01999
		Price € 21,25	€ 27,50
198 mm	20	Order-No. P 02015	A 02000
		Price € 21,50	€ 28,75
216 mm	22	Order-No. P 02016	A 02001
		Price € 23,75	€ 30,00
234 mm	24	Order-No. P 02017	A 02002
		Price € 25,00	€ 31,25
252 mm	26	Order-No. P 02018	A 02003
		Price € 26,25	€ 32,50
270 mm	28	Order-No. P 02019	A 02004
		Price € 27,50	€ 33,75
288 mm	30	Order-No. P 02020	A 02005
		Price € 30,00	€ 36,25
306 mm	32	Order-No. P 02021	A 02006
		Price € 32,50	€ 39,25
324 mm	34	Order-No. P 02022	A 02007
		Price € 35,00	€ 41,75

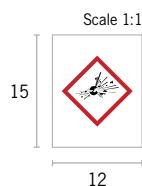
\*Bei der Anzahl der Symbole ist berücksichtigt, dass immer 2 Außenelemente hinzukommen.

## Gs GHS pictograms

## Material

Luxotherm®  / Aluminium, anodised 

Quantity	Article
10 pieces	0003



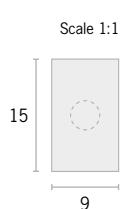
Order-No.	Mat.	GHS 01
Price	L	01246 € 1,65
Order-No.	A	01237 € 3.30
Price		

**GHS 02**  
**01247**  
€ 1,65  
**01238**  
€ 3,30

**GHS 03**  
**01248**  
€ 1,65  
**01239**  
€ 3.30

**GHS 04**  
**01249**  
€ 1,65  
**01240**  
€ 3,30

**GHS 05**  
**01250**  
€ 1,65  
**01241**  
€ 3.30

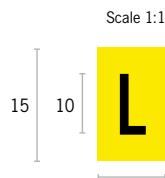


## 0e Outer elements

Material		Quantity	Article
Luxotherm® <b>L</b> (yellow/black)   <b>L</b> (white/black) / Aluminium, anodised <b>A</b> silver/black)		15 pieces	0001
<b>DIN 2403</b>			
		Oxygen	Water
	No colour	RAL5005	RAL6032
	Neutral	Group 0	Group 1
<i>Design</i>	<i>Mat.</i>		
without hole	<b>Order-No.</b> <b>L</b> Price	<b>41694</b> € 1,30	-
	<b>Order-No.</b> <b>L</b> Price	<b>02110</b> € 1,30	<b>02094</b> € 1,30
	<b>Order-No.</b> <b>A</b> Price	<b>02090</b> € 2,40	<b>02074</b> € 2,40
	<b>Order-No.</b> <b>L</b> Price	<b>41695</b> € 1,30	-
with hole	<b>Order-No.</b> <b>L</b> Price	<b>02109</b> € 1,30	<b>02093</b> € 1,30
	<b>Order-No.</b> <b>A</b> Price	<b>02089</b> € 2,40	<b>02073</b> € 2,40
		Gases	Acids
		RAL1003	RAL2010
		Group 4/5	Group 6
<i>Design</i>	<i>Mat.</i>		
without hole	<b>Order-No.</b> <b>L</b> Price	<b>02102</b> € 1,30	<b>02104</b> € 1,30
	<b>Order-No.</b> <b>A</b> Price	<b>02082</b> € 2,40	<b>02084</b> € 2,40
	<b>Order-No.</b> <b>L</b> Price	<b>02101</b> € 1,30	<b>02103</b> € 1,30
with hole	<b>Order-No.</b> <b>A</b> Price	<b>02081</b> € 2,40	<b>02083</b> € 2,40
		Alkalies	Liquids and solids
		RAL4008	RAL8002
		Group 7	Group 8/9
<b>ISO 20560</b>			
		Air	Water
	No colour	RAL5015	RAL6018
			Firefighting medium
			Gases
			RAL3001
			RAL7001
<i>Design</i>	<i>Mat.</i>		
without hole	<b>Order-No.</b> <b>L</b> Price	<b>32380</b> € 1,30	<b>32138</b> € 1,30
	<b>Order-No.</b> <b>A</b> Price	<b>32378</b> € 2,40	<b>32120</b> € 2,40
	<b>Order-No.</b> <b>L</b> Price	<b>32379</b> € 1,30	<b>32137</b> € 1,30
with hole	<b>Order-No.</b> <b>A</b> Price	<b>32377</b> € 2,40	<b>32119</b> € 2,40
		Acids	Alkalies (leaches)
		RAL2003	RAL4001
			Liquids and fixed materials
			RAL9004
			Safety colour
			Hazardous substances
			RAL1003
<i>Design</i>	<i>Mat.</i>		
without hole	<b>Order-No.</b> <b>L</b> Price	<b>32148</b> € 1,30	<b>32132</b> € 1,30
	<b>Order-No.</b> <b>A</b> Price	<b>32130</b> € 2,40	<b>32114</b> € 2,40
	<b>Order-No.</b> <b>L</b> Price	<b>32147</b> € 1,30	<b>32131</b> € 1,30
with hole	<b>Order-No.</b> <b>A</b> Price	<b>32129</b> € 2,40	<b>32113</b> € 2,40
			32142 € 1,30
			32124 € 2,40
			32141 € 1,30
			32123 € 2,40
			32136 € 1,30
			32118 € 2,40
			32135 € 1,30
			32117 € 2,40

## 09 Series

Distance of observation 3 m



### Sy Symbols

#### Material (c54)

Luxotherm® **L** (yellow/black) | **L** (white/black) / Aluminium, anodised **A** silver/black

Quantity

Article

15 pieces

0003



Mat.

Order-No. <b>L</b>	01351	01417	01355	01421	01357	01423	01359	01425	01361	01427
Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No. <b>L</b>	01352	01418	01356	01422	01358	01424	01360	01426	01362	01428



Mat.

Order-No. <b>L</b>	01363	01429	01365	01431	01367	01433	01369	01435	01371	01437
Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No. <b>L</b>	01364	01430	01366	01432	01368	01434	01370	01436	01372	01438



Mat.

Order-No. <b>L</b>	01373	01439	01375	01441	01377	01443	01379	01445	01381	01447
Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No. <b>L</b>	01374	01440	01376	01442	01378	01444	01380	01446	01382	01448



Mat.

Order-No. <b>L</b>	01385	01451	01387	01453	01389	01455	01391	01457	01393	01459
Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No. <b>L</b>	01386	01452	01388	01454	01390	01456	01392	01458	01394	01460



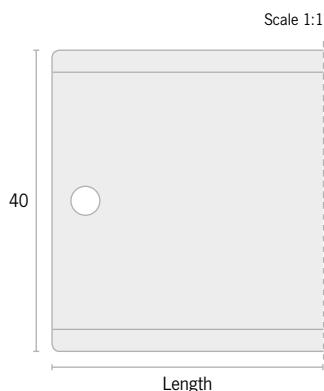
Mat.

Order-No. <b>L</b>	01395	01461	01399	01465	01401	01467	01403	01469	01405	01471
Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No. <b>L</b>	01396	01462	01400	01466	01402	01468	01404	01470	01406	01472

Z	z	0	1	2	3	4	5	6	7
Mat.									
Order-No.	L	01407	01473	01503	01505	01507	01509	01511	01513
Price		€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No.	L	01408	01474	01504	01506	01508	01510	01512	01514
Price		€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No.	A	01286	01319	01334	01335	01336	01337	01338	01339
Price		€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40
8	9	2	2	3	3	4	4	!	:
Mat.									
Order-No.	L	01519	01521	01409	01497	01411	01499	01413	01501
Price		€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No.	L	01520	01522	01410	01498	01412	01500	01414	01502
Price		€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No.	A	01342	01343	01287	01331	01288	01332	01289	01333
Price		€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40
=	+	(	>	,	.	-	▶	▼	±
Mat.									
Order-No.	L	01349	01489	01415	01475	01477	01493	01481	01483
Price		€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No.	L	01350	01490	01416	01476	01478	01494	01482	01484
Price		€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
Order-No.	A	01257	01327	01290	01320	01321	01329	01323	01324
Price		€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40
%	/	"							
Mat.									
Order-No.	L	01491	01495	01523	01479				
Price		€ 1,30	€ 1,30	€ 1,30	€ 1,30				
Order-No.	L	01492	01496	01524	01480				
Price		€ 1,30	€ 1,30	€ 1,30	€ 1,30				
Order-No.	A	01328	01330	01344	01322				
Price		€ 2,40	€ 2,40	€ 2,40	€ 2,40				

## 18 Series

Distance of observation 9 m



### Sp Slide-in profiles

Material	Quantity	Article
Chlorid free plastic <b>P</b> / Aluminium, anodised <b>A</b>	25 pieces	0002
<hr/>		
Length	Number of symbols*	Mat. Mat.
72 mm	2 / 3**	Order-No. <b>P</b> 06782 <b>A</b> 06778 Price € 16,00 € 23,25
90 mm	3 / 4**	Order-No. <b>P</b> 06783 <b>A</b> 06779 Price € 17,50 € 24,75
108 mm	4 / 5**	Order-No. <b>P</b> 06784 <b>A</b> 06780 Price € 19,00 € 26,25
126 mm	5 / 6**	Order-No. <b>P</b> 06785 <b>A</b> 06781 Price € 20,50 € 27,75
144 mm	6 / 7**	Order-No. <b>P</b> 02036 <b>A</b> 02023 Price € 22,00 € 29,25
162 mm	7 / 8**	Order-No. <b>P</b> 02037 <b>A</b> 02024 Price € 23,50 € 30,75
180 mm	8 / 9**	Order-No. <b>P</b> 02038 <b>A</b> 02025 Price € 25,00 € 32,25
198 mm	9 / 10**	Order-No. <b>P</b> 02039 <b>A</b> 02026 Price € 26,50 € 33,75
216 mm	10 / 11**	Order-No. <b>P</b> 02040 <b>A</b> 02027 Price € 28,00 € 35,25
234 mm	11 / 12**	Order-No. <b>P</b> 02041 <b>A</b> 02028 Price € 29,50 € 36,75
252 mm	12 / 13**	Order-No. <b>P</b> 02042 <b>A</b> 02029 Price € 31,00 € 38,75
270 mm	13 / 14**	Order-No. <b>P</b> 02043 <b>A</b> 02030 Price € 32,50 € 40,25
288 mm	14 / 15**	Order-No. <b>P</b> 02044 <b>A</b> 02031 Price € 34,00 € 41,75
306 mm	15 / 16**	Order-No. <b>P</b> 02045 <b>A</b> 02032 Price € 35,50 € 43,25
324 mm	16 / 17**	Order-No. <b>P</b> 02046 <b>A</b> 02033 Price € 39,00 € 46,25
342 mm	17 / 18**	Order-No. <b>P</b> 02047 <b>A</b> 02034 Price € 42,00 € 49,25
360 mm	18 / 19**	Order-No. <b>P</b> 02048 <b>A</b> 02035 Price € 45,00 € 52,25

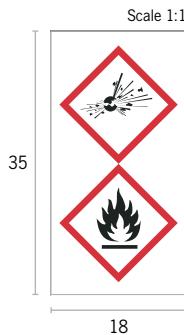
\*The number of symbols takes into account that there are always two additional outer elements.

\*\*With half outer elements

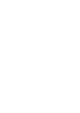


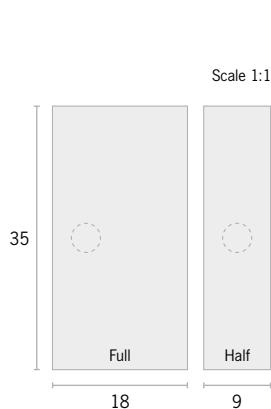
## 18 Series

Distance of observation 9 m



### Gs GHS double pictograms

Material	Quantity		Article
Luxotherm® L / Aluminium, anodised A	15 pieces		0003
	GHS 01/02		GHS 01/05
	GHS 01/06		GHS 01/07
	GHS 01/08		GHS 01/09
	GHS 02/05		GHS 02/06
	GHS 02/07		GHS 02/08
	GHS 02/09		
	GHS 03/05		GHS 03/06
	GHS 03/07		GHS 03/08
	GHS 03/09		
	GHS 05/06		GHS 05/07
	GHS 05/08		GHS 05/09
	GHS 06/08		GHS 06/09
	GHS 07/08		GHS 07/09
	GHS 08/09		
	Mat.		
	Order-No. L	36548	36549
€ 3,85	Price	€ 3,85	€ 3,85
	Order-No. A	36523	36524
€ 7,65	Price	€ 7,65	€ 7,65
	Mat.		
	Order-No. L	36554	36555
€ 3,85	Price	€ 3,85	€ 3,85
	Order-No. A	36529	36530
€ 7,65	Price	€ 7,65	€ 7,65
	Mat.		
	Order-No. L	36559	36560
€ 3,85	Price	€ 3,85	€ 3,85
	Order-No. A	36534	36535
€ 7,65	Price	€ 7,65	€ 7,65
	Mat.		
	Order-No. L	36564	36565
€ 3,85	Price	€ 3,85	€ 3,85
	Order-No. A	36539	36540
€ 7,65	Price	€ 7,65	€ 7,65
	Mat.		
	Order-No. L	36568	36569
€ 3,85	Price	€ 3,85	€ 3,85
	Order-No. A	36543	36544
€ 7,65	Price	€ 7,65	€ 7,65

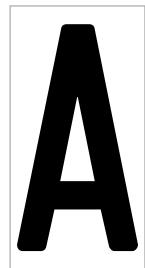
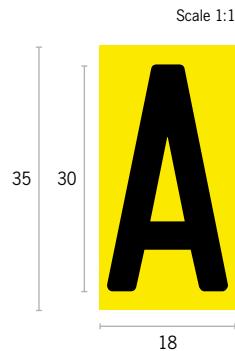


## Oe Outer Elements

Material							Quantity		Article		
Luxotherm® <b>L</b> (yellow/black)   <b>L</b> (white/black) / Aluminium, anodised <b>A</b> silver/black)							15 pieces		0001		
DIN 2403		No colour		Oxygen		Water		Steam		Air	
Design	Mat.	No colour	Neutral	Oxygen	Water	Steam	Air	Whole	Half	Whole	Half
				RAL5005	RAL6032	RAL3001	RAL7004				
				Group 0	Group 1	Group 2	Group 3				
				Whole	Half	Whole	Half	Whole	Half	Whole	Half
				41696	41698	41696	41698	41696	41698	41696	41698
				€ 3,15	€ 2,45	-	-	-	-	-	-
without hole	Order-No. <b>L</b>	02186	02298	02170	02282	02172	02284	02174	02286	02176	02288
	Price	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
with hole	Order-No. <b>A</b>	02166	02278	02150	02262	02152	02264	02154	02266	02156	02268
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
	Order-No. <b>L</b>	41697	41699	-	-	-	-	-	-	-	-
	Price	€ 3,15	€ 2,45	-	-	-	-	-	-	-	-
	Order-No. <b>L</b>	02185	02297	02169	02281	02171	02283	02173	02285	02175	02287
	Price	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
	Order-No. <b>A</b>	02165	02277	02149	02261	02151	02263	02153	02265	02155	02267
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
		Gases		Acids		Alkalies		Liquids and solids		Additional Colour	
		RAL1003		RAL2010		RAL4008		RAL8002		Black	
		Group 4/5		Group 6		Group 7		Group 8/9		Zusatz	
Design	Mat.	No colour	Neutral	Whole	Half	Whole	Half	Whole	Half	Whole	Half
				02178	02290	02180	02292	02182	02294	02184	02296
				€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
without hole	Order-No. <b>A</b>	02158	02270	02160	02272	02162	02274	02164	02276	02168	02280
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
	Order-No. <b>L</b>	02177	02289	02179	02291	02181	02293	02183	02295	02187	02299
	Price	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
	Order-No. <b>A</b>	02157	02269	02159	02271	02161	02273	02163	02275	02167	02279
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
		Acids		Alkalies (leaches)		Liquids and fixed materials		Firefighting medium		Gases	
		RAL2003		RAL4001		RAL9004		RAL3001		RAL7001	
		Group 4/5		Group 6		Group 7		Group 8/9		Group 10	
Design	Mat.	No colour	Neutral	Whole	Half	Whole	Half	Whole	Half	Whole	Half
				32386	32390	32214	32250	32222	32258	32210	32246
				€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
without hole	Order-No. <b>A</b>	32384	32388	32196	32232	32204	32240	32192	32228	32202	32238
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
	Order-No. <b>L</b>	32385	32389	32213	32249	32221	32257	32209	32245	32219	32255
	Price	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
	Order-No. <b>A</b>	32383	32387	32195	32231	32203	32239	32191	32227	32201	32237
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
		Acids		Alkalies (leaches)		Liquids and fixed materials		Firefighting medium		Gases	
		RAL2003		RAL4001		RAL9004		RAL3001		RAL7001	
		Group 4/5		Group 6		Group 7		Group 8/9		Group 10	
Design	Mat.	No colour	Neutral	Whole	Half	Whole	Half	Whole	Half	Whole	Half
				32224	32260	32208	32244	32218	32254	32212	32248
				€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
without hole	Order-No. <b>A</b>	32206	32242	32190	32226	32200	32236	32194	32230	32211	32247
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
	Order-No. <b>L</b>	32223	32259	32207	32243	32217	32253	32193	32229	32211	32249
	Price	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
	Order-No. <b>A</b>	32205	32241	32189	32225	32199	32235	32193	32229	32193	32229
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
		Acids		Alkalies (leaches)		Liquids and fixed materials		Firefighting medium		Gases	
		RAL2003		RAL4001		RAL9004		RAL3001		RAL7001	
		Group 4/5		Group 6		Group 7		Group 8/9		Group 10	
Design	Mat.	No colour	Neutral	Whole	Half	Whole	Half	Whole	Half	Whole	Half
				32224	32260	32208	32244	32218	32254	32212	32248
				€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
without hole	Order-No. <b>A</b>	32206	32242	32190	32226	32200	32236	32194	32230	32211	32247
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
	Order-No. <b>L</b>	32223	32259	32207	32243	32217	32253	32193	32229	32211	32249
	Price	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
	Order-No. <b>A</b>	32205	32241	32189	32225	32199	32235	32193	32229	32193	32229
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
		Acids		Alkalies (leaches)		Liquids and fixed materials		Firefighting medium		Gases	
		RAL2003		RAL4001		RAL9004		RAL3001		RAL7001	
		Group 4/5		Group 6		Group 7		Group 8/9		Group 10	
Design	Mat.	No colour	Neutral	Whole	Half	Whole	Half	Whole	Half	Whole	Half
				32224	32260	32208	32244	32218	32254	32212	32248
				€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
without hole	Order-No. <b>A</b>	32206	32242	32190	32226	32200	32236	32194	32230	32211	32247
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
	Order-No. <b>L</b>	32223	32259	32207	32243	32217	32253	32193	32229	32211	32249
	Price	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
	Order-No. <b>A</b>	32205	32241	32189	32225	32199	32235	32193	32229	32193	32229
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
		Acids		Alkalies (leaches)		Liquids and fixed materials		Firefighting medium		Gases	
		RAL2003		RAL4001		RAL9004		RAL3001		RAL7001	
		Group 4/5		Group 6		Group 7		Group 8/9		Group 10	
Design	Mat.	No colour	Neutral	Whole	Half	Whole	Half	Whole	Half	Whole	Half
				32224	32260	32208	32244	32218	32254	32212	32248
				€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
without hole	Order-No. <b>A</b>	32206	32242	32190	32226	32200	32236	32194	32230	32211	32247
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
	Order-No. <b>L</b>	32223	32259	32207	32243	32217	32253	32193	32229	32211	32249
	Price	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
	Order-No. <b>A</b>	32205	32241	32189	32225	32199	32235	32193	32229	32193	32229
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
		Acids		Alkalies (leaches)		Liquids and fixed materials		Firefighting medium		Gases	
		RAL2003		RAL4001		RAL9004		RAL3001		RAL7001	
		Group 4/5		Group 6		Group 7		Group 8/9		Group 10	
Design	Mat.	No colour	Neutral	Whole	Half	Whole	Half	Whole	Half	Whole	Half

## 18 Series

Erkennungsweite 9 Meter



### Sy Symbols

#### Material (colours)

Luxotherm® **L** (yellow/black) | **L** (white/black) / Aluminium, anodised **A** silver/black)

Quantity

Article

15 pieces

0003

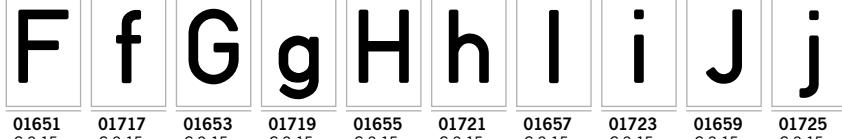


Mat.

Order-No. <b>L</b>	01639	01705	01643	01709	01645	01711	01647	01713	01649	01715
Price	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15
Order-No. <b>L</b>	01640	01706	01644	01710	01646	01712	01648	01714	01650	01716
Price	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15

Order-No. **A**

Price



Mat.

Order-No. <b>L</b>	01651	01717	01653	01719	01655	01721	01657	01723	01659	01725
Price	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15
Order-No. <b>L</b>	01652	01718	01654	01720	01656	01722	01658	01724	01660	01726
Price	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15

Order-No. **A**

Price

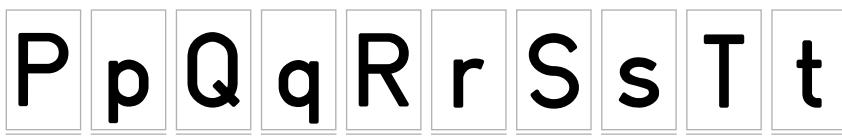


Mat.

Order-No. <b>L</b>	01661	01727	01663	01729	01665	01731	01667	01733	01669	01735
Price	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15
Order-No. <b>L</b>	01662	01728	01664	01730	01666	01732	01668	01734	01670	01736
Price	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15

Order-No. **A**

Price



Mat.

Order-No. <b>L</b>	01673	01739	01675	01741	01677	01743	01679	01745	01681	01747
Price	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15
Order-No. <b>L</b>	01674	01740	01676	01742	01678	01744	01680	01746	01682	01748

Order-No. **A**

Price



Mat.

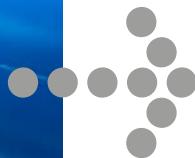
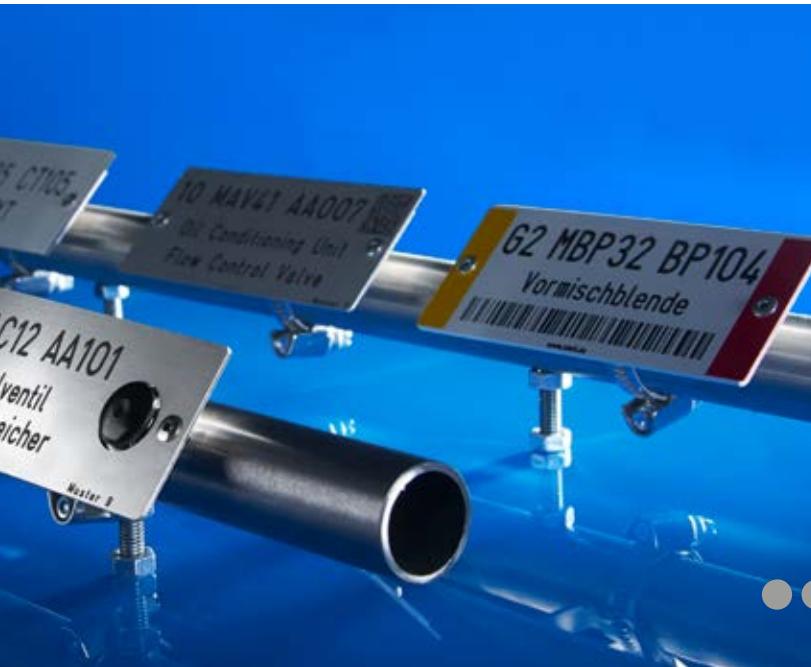
Order-No. <b>L</b>	01683	01749	01687	01753	01689	01755	01691	01757	01693	01759
Price	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15
Order-No. <b>L</b>	01684	01750	01688	01754	01690	01756	01692	01758	01694	01760
Price	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15	€ 3,15

Order-No. **A**

Price

<b>Z</b>	<b>z</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<i>Mat.</i>									
Order-No. <b>L</b> Price	01695 € 3,15	01761 € 3,15	01791 € 3,15	01793 € 3,15	01795 € 3,15	01797 € 3,15	01799 € 3,15	01801 € 3,15	01803 € 3,15
Order-No. <b>L</b> Price	01696 € 3,15	01762 € 3,15	01792 € 3,15	01794 € 3,15	01796 € 3,15	01798 € 3,15	01800 € 3,15	01802 € 3,15	01804 € 3,15
Order-No. <b>A</b> Price	01565 € 6,30	01598 € 6,30	01613 € 6,30	01614 € 6,30	01615 € 6,30	01616 € 6,30	01617 € 6,30	01618 € 6,30	01619 € 6,30
<b>8</b>	<b>9</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>!</b>	<b>:</b>
<i>Mat.</i>									
Order-No. <b>L</b> Price	01807 € 3,15	01809 € 3,15	01697 € 3,15	01785 € 3,15	01699 € 3,15	01787 € 3,15	01701 € 3,15	01789 € 3,15	01633 € 3,15
Order-No. <b>L</b> Price	01808 € 3,15	01810 € 3,15	01698 € 3,15	01700 € 3,15	01788 € 3,15	01702 € 3,15	01790 € 3,15	01634 € 3,15	01636 € 3,15
Order-No. <b>A</b> Price	01621 € 6,30	01622 € 6,30	01566 € 6,30	01610 € 6,30	01567 € 6,30	01611 € 6,30	01568 € 6,30	01612 € 6,30	01534 € 6,30
<b>=</b>	<b>+</b>	<b>(</b>	<b>)</b>	<b>,</b>	<b>.</b>	<b>-</b>	<b>▶</b>	<b>▲</b>	<b>◀</b>
<i>Mat.</i>									
Order-No. <b>L</b> Price	01637 € 3,15	01777 € 3,15	01703 € 3,15	01763 € 3,15	01765 € 3,15	01781 € 3,15	01769 € 3,15	01771 € 3,15	01773 € 3,15
Order-No. <b>L</b> Price	01638 € 3,15	01778 € 3,15	01704 € 3,15	01764 € 3,15	01766 € 3,15	01782 € 3,15	01770 € 3,15	01772 € 3,15	01774 € 3,15
Order-No. <b>A</b> Price	01536 € 6,30	01606 € 6,30	01569 € 6,30	01599 € 6,30	01600 € 6,30	01608 € 6,30	01602 € 6,30	01603 € 6,30	01604 € 6,30
<b>◆</b>	<b>±</b>	<b>%</b>	<b>/</b>	<b>"</b>					
<i>Mat.</i>									
Order-No. <b>L</b> Price	30304 € 3,15	01775 € 3,15	01779 € 3,15	01783 € 3,15	01811 € 3,15	01767 € 3,15			30303 € 3,15
Order-No. <b>L</b> Price	30302 € 3,15	01776 € 3,15	01780 € 3,15	01784 € 3,15	01812 € 3,15	01768 € 3,15			30301 € 3,15
Order-No. <b>A</b> Price	30300 € 6,30	01605 € 6,30	01607 € 6,30	01609 € 6,30	01623 € 6,30	01601 € 6,30			30299 € 6,30

# Printed and Engraved Signs



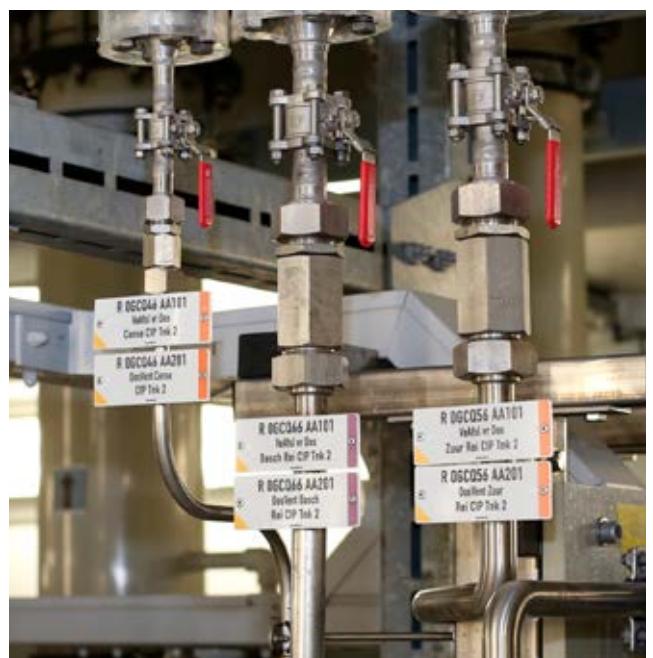
When we talk about signs, we are usually referring to engraved or printed signs for plant labelling. Both versions are available in a variety of basic materials, the standard sizes are perfectly matched to our fastenings, and they can be provided with data components such as QR codes or RFID. The location's conditions serve as the determining factor in selecting the material and the production process.

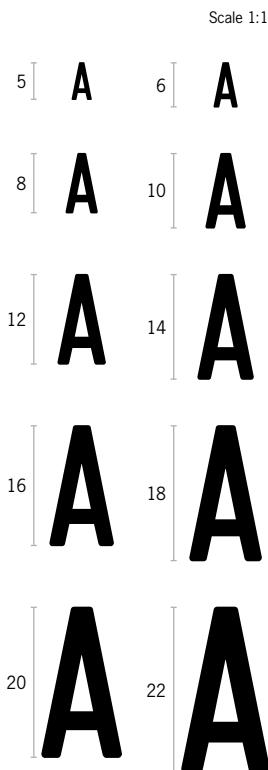
## Printed Signs

Fast production even with large quantities. Our machines can process a multitude of substrates with a wide variety of colour systems. These range from conventional solvent-based colours to multi-component colours and lacquers with extreme resistance to external influences through UV-hardening paints. Additionally, we offer a wide selection of printable materials, among them conventional polyvinyl chloride, various metals, plastics and acrylates. This way, new and frequently used contents can be combined by making use of a multitude of implementation variants.

## Engraved Signs

The classic when it comes to price-performance ratio. Simple and long-lasting labelling, even in temperature critical areas. Our in-house production allows us to offer cost-effective engraving and short-term delivery times. Through milling, machine engraving and laser engraving, we are able to cleanly and precisely label all plastic and metal signs. We offer about 80 different basic materials, surface textures and colour tones for you to choose from. When engraving and milling metals, the contrast in the material can also be significantly increased by the colouring of the milling groove.





### Character count and distance of observation

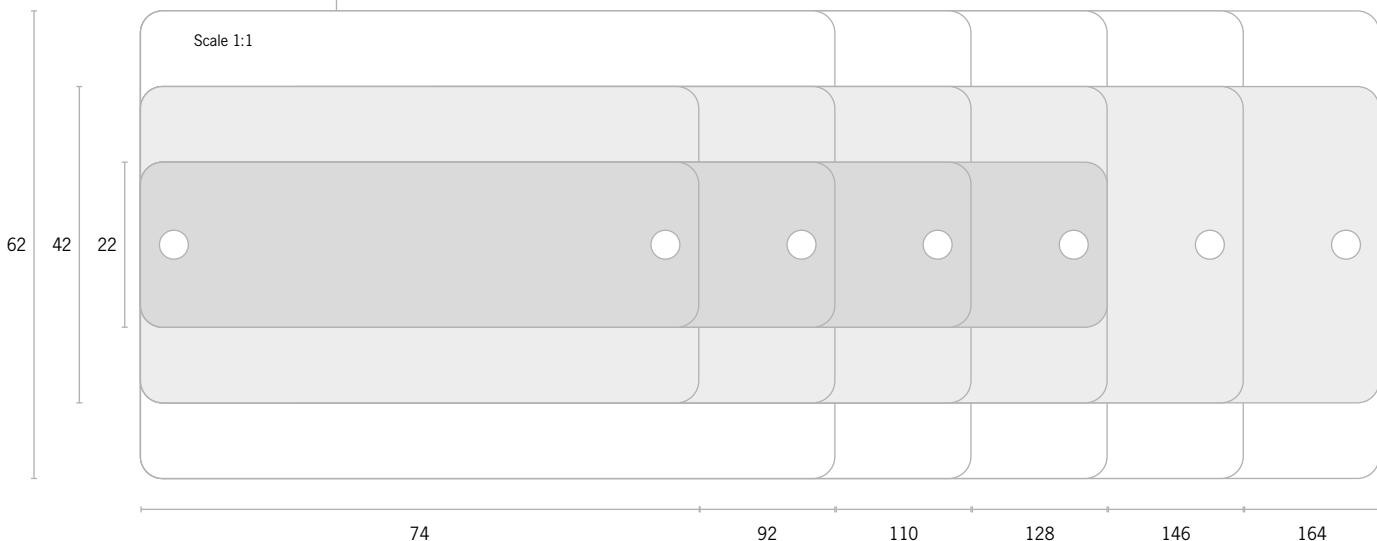
Coding and text message represent the essence of a sign. The required length of the text depends on the desired, resp. the required height of the text and the resulting length of the sign.

Font height (mm)		5	6	8	10	12	14	16	18	20	22
Distance of observation (m)		1,5	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6
Length (mm)	Height (mm)	Character count per line*									
74 mm	22	20	17	13	10	9	7	6	5	5	
		24	20	15	12	10	8	7	6	6	6
92 mm	22	26	22	17	13	11	9	8	8	6	6
		30	25	19	15	12	10	9	9	7	7
110 mm	22	32	27	21	16	13	11	10	10	7	7
		36	30	23	18	14	12	11	11	8	8
128 mm	22	38	32	25	19	15	13	12	12	9	9
		42	35	27	21	16	14	13	13	10	10
146 mm	- 42	44	37	29	22	17	15	14	14	11	11
		48	40	31	23	18	16	15	15	12	12
164 mm	- 42	50	42	33	25	19	17	16	16	13	13
		54	45	35	27	20	18	17	17	14	14

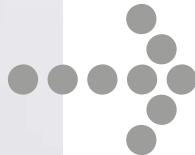
\*Stated values are approximate values that can vary, depending on font. Standard font is DIN 1451.

### Standard sizes for printed and engraved signs

Below mentioned standard sizes match our fastening systems and tools. However, different sizes are available upon request.



# InSTELLigent Products – Signs with Barcode, Data Matrix and RFID



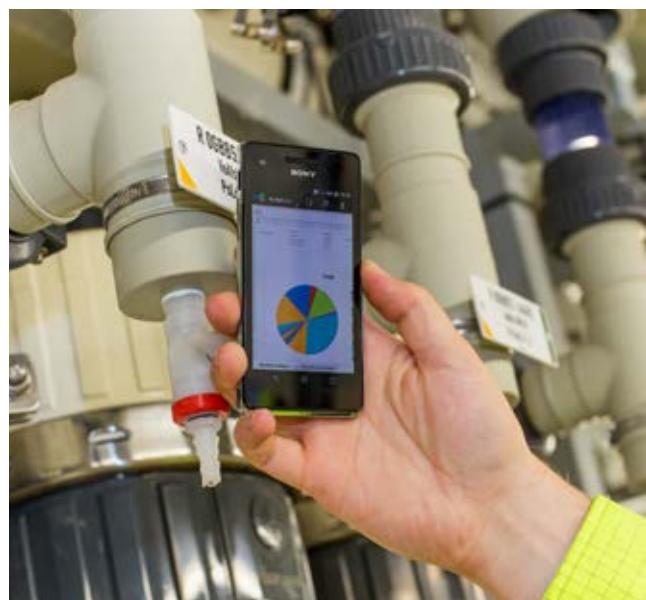
In addition to the optical information on our signs, electronically readable information is applied to them as a reference. Both our printed and engraved signs can contain an OCR font, a barcode or a Data Matrix as integral part of the print, resp. engraving. Additionally, the usage of RFID technology is an interesting option for the industries of our customers. These intelligent signs come in all sorts of shapes and represent interfaces for maintenance and servicing works of plants and plant parts and the automated identification on pipes, networks and components. We can offer you an extensive selection of signs and basic materials to create your individual interface, so please do not hesitate to get in contact with us.

## Data Matrix / OCR Code

The QR code, which is used often nowadays, can be especially well recognised by simple terminal devices, therefore offering an extensive range of applications. Even in rough environments, it is not very susceptible to contamination or scratching and it can still be read if up to 25% of it is damaged. The most important aspect for reliable readability is a suitable contrast between the underground and the Data Matrix which mainly depends on the on-site lighting conditions.

## RFID

A step further with regard to automation and data exchange are RFID transponders. The RFID technology allows (process) information to be read, stored and overwritten in the transponder (at the installation location in the plant) without any physical contact. Any sign equipped with an RFID transponder can thus be uniquely identified without exception. Excellent adhesive quality and resistance also make our RFID signs suitable for use in harsher environments. And if you want to take this technology to the next level you should consider our new high-tech sign with integrated transponder – the R2D2 sign.



## R2D2 – Ran-in RFID Durable Datasign

Our patented R2D2 sign has been developed to offer digital interfaces for all plant areas even in harsh conditions. One solution for any kind of intended usage.

R2D2 consists of reinforced high-performance plastic in which an RFID transponder is permanently embedded. The basic material can be printed so it represents a perfect advancement of already existing labelling means. Thanks to the combination of implemented materials and production method and the fixed connection between the transponder and the sign, R2D2 is likely to be today's most resilient intelligent labelling solution. To get the most out of the R2D2 technology we've adjusted the production method so that all signs will undergo a complete automated check. This way we can guarantee that the visual and digital information of the sign is always identical, ensuring the most important aspect of safe automatization – 100% reliability.

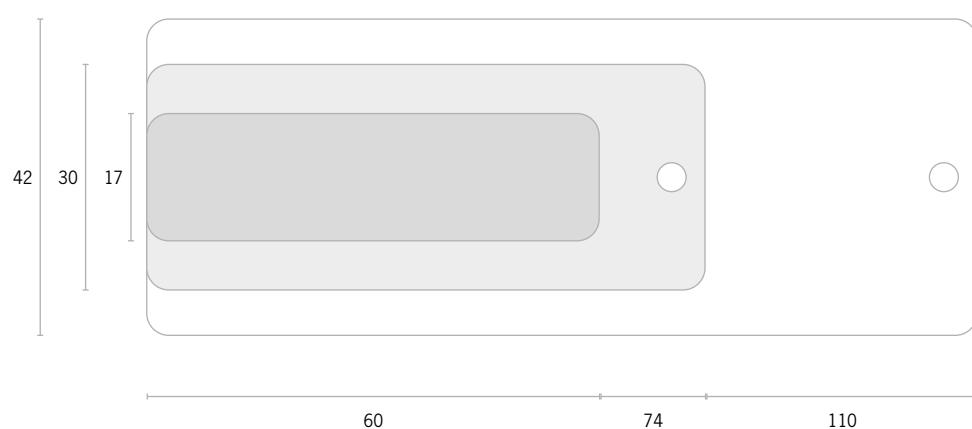
### The benefits of R2D2 at a glance:

- Clear identification with a worldwide unique serial number
- 30 years of data security
- Standard frequency range of 13.56 MHz
- Guaranteed 100% match between text and data
- Temperature resistance from -40 °C to 150 °C
- Permanently embedded RFID transponder
- Excellent writing and reading qualities
- No shielding effects from metal (MoM)
- Very good resistance to UV radiation
- Good resistance to acid and chemicals
- Perfectly matched to our fastening systems



## Standard sizes of R2D2-signs

Scale 1:1



## Slide-In System

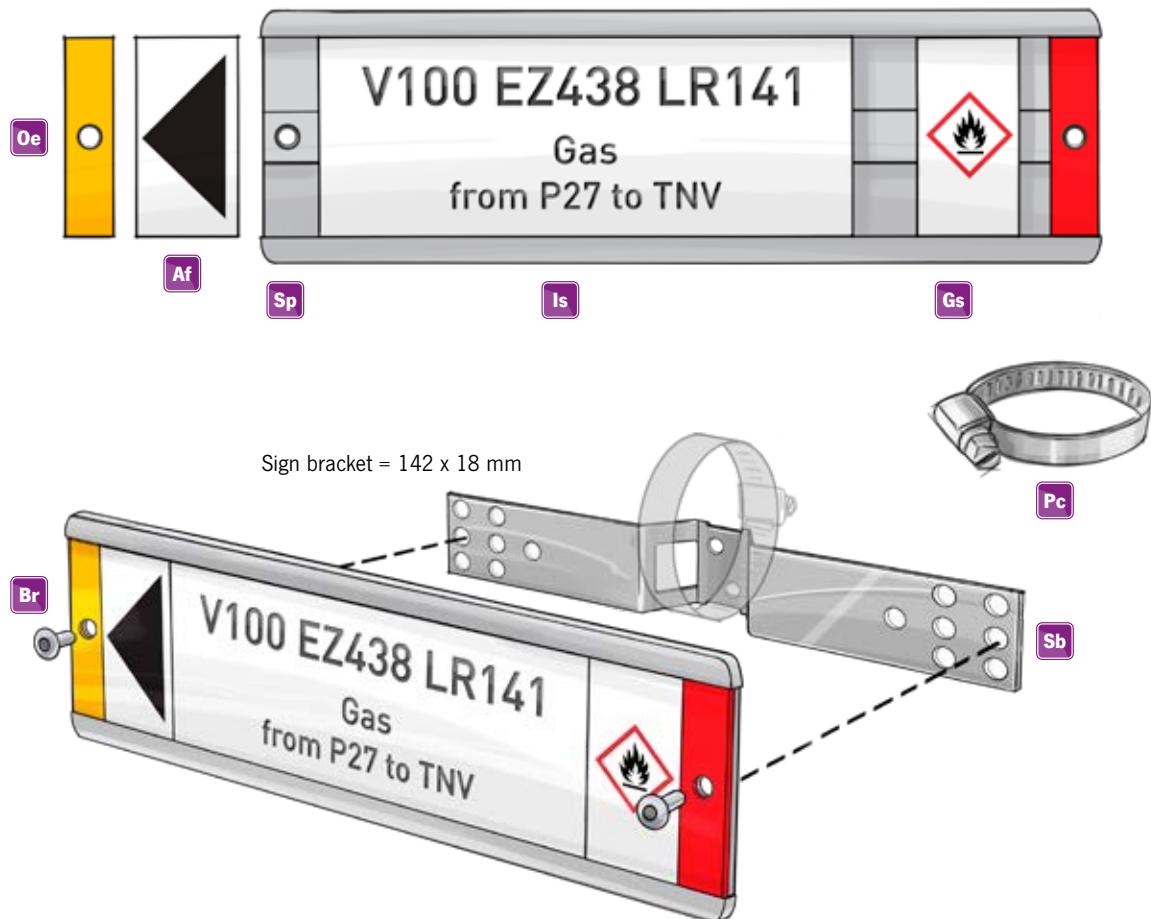


The slide-in system combines the advantages of the original Stell "Stecksystem" and the product range for engraved and printed signs. Comprised of a slide-in profile, an engraved or printed insert as well as insertable symbols, it offers you flexibility and increased information density.

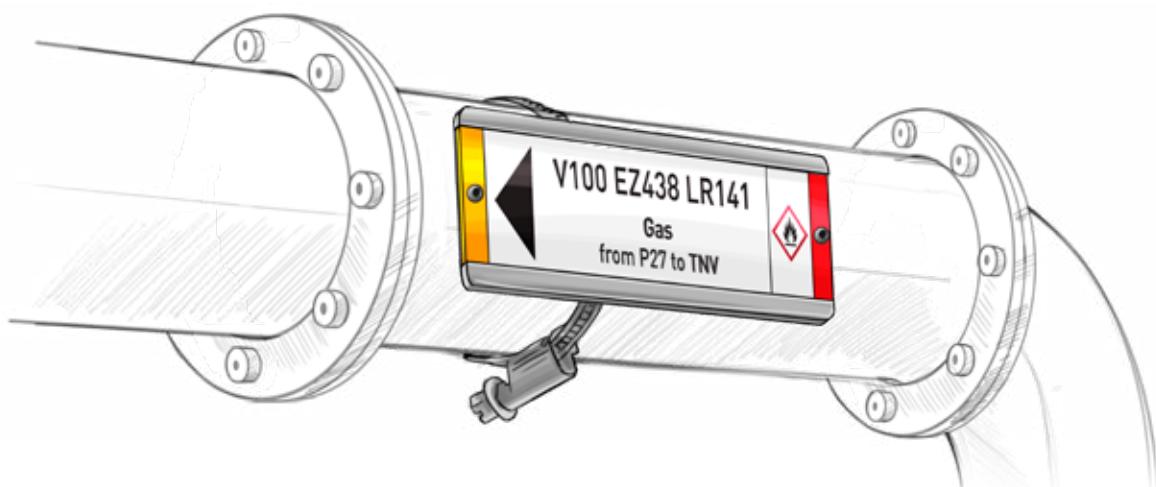
The printed or engraved signs are inserted into a slide-in profile and contain customer-specific information on plant operation and the pipe sequence, or additional information on test circuits, pipe pressure or the addresses. In addition, the flow direction, GHS pictograms, colours, etc. are slid and riveted as standard elements in alignment with our standard sizes. The slide-in system is particularly suitable for our customers who would like to personally handle and change their labelling, but at the same time want to show a lot of concentrated on-site information.



18 series  
Slide-in profile = 144 mm, half outer elements

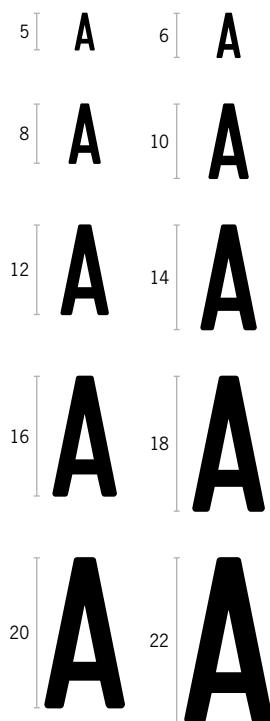


<b>Is</b> <b>Inserts</b> See page 37, 37, 37, 37	<b>Oe</b> <b>Outer elements</b> See page 37, 37, 37, 37	<b>Af</b> <b>Flow direction arrows</b> See page 37, 37, 37, 37	<b>Pc</b> <b>Pipe clamps</b> See page 37
<b>Sp</b> <b>Slide-in profiles</b> See page 37, 37, 37, 37	<b>Gs</b> <b>GHS pictograms</b> See page 37, 37, 37, 37	<b>Sb</b> <b>Sign brackets</b> See page 37	<b>Br</b> <b>Blind rivets</b> See page 37



**Is** Inserts





Scale 1:1

### Letter count and distance of observation

Coding and text message represent the essence of a sign. The required length of the text depends on the desired, resp. the required height of the text and the resulting length of the sign. The following overview shows the relevant proportions for engraved and printed signs.

Font height (mm)		5	6	8	10	12	14	16	18	20	22				
Distance of observation (m)		1,5	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6				
Serie ▶		06/09	18	27	36	Character count per line**									
Length of inserts	Height of inserts (mm)					11	9	7	5	4	3	3	3	2	2
36 mm	—	—	—	74	11	9	7	5	4	3	3	3	2	2	
54 mm	15	35	54	74	17	14	10	8	7	6	5	4	4	3	
72 mm	15	35	54	74	23	19	14	11	9	8	7	6	5	5	
81 mm	—	—	54	—	26	21	16	13	10	9	8	7	6	5	
90 mm	15	35	54	74	29	24	18	14	12	10	9	8	7	6	
99 mm	—	35	54	—	32	26	20	16	13	11	10	8	8	7	
108 mm	15	35	54	74	35	29	21	17	14	12	10	9	8	7	
117 mm	—	35	54	—	37	31	23	18	15	13	12	10	9	8	
126 mm	15	35	54	74	40	34	25	20	17	14	12	11	10	9	
135 mm	—	35	54	—	43	36	27	21	18	15	13	12	10	9	
144 mm	15	35	—	74	46	38	29	23	19	16	14	12	11	10	
153 mm	—	35	54	—	49	41	30	24	20	17	15	13	12	11	
162 mm	—	35	54	74	52	43	32	26	21	18	16	14	13	11	
171 mm	—	35	54	—	55	46	34	27	23	19	17	15	13	12	
180 mm	—	35	54	74	58	48	36	29	24	20	18	16	14	13	
189 mm	—	35	54	—	61	51	38	30	25	21	19	17	15	13	
198 mm	—	35	54	74	64	53	40	32	26	22	20	17	16	14	
207 mm	—	35	54	—	67	55	41	33	27	23	20	18	16	15	
216 mm	—	35	54	74	69	58	43	34	29	24	21	19	17	15	
225 mm	—	35	54	—	72	60	45	36	30	26	22	20	18	16	
234 mm	—	35	54	74	75	63	47	37	31	27	23	21	18	17	
243 mm	—	35	54	—	78	65	49	39	32	28	24	21	19	17	
252 mm	—	35	54	74	81	68	51	40	34	29	25	22	20	18	
261 mm	—	35	54	—	84	70	52	42	35	30	26	23	21	19	
270 mm	—	35	54	74	87	72	54	43	36	31	27	24	21	19	
279 mm	—	35	54	—	90	75	56	45	37	32	28	25	22	20	
288 mm	—	35	54	74	93	77	58	46	38	33	29	25	23	21	
297 mm	—	35	54	—	96	80	60	48	40	34	30	26	24	21	
306 mm	—	35	54	74	99	82	61	49	41	35	31	27	24	22	
315 mm	—	35	54	—	101	85	63	51	42	36	31	28	25	23	
324 mm	—	35	54	74	104	87	65	52	43	37	32	29	26	23	
333 mm	—	35	54	—	107	90	67	53	45	38	33	29	26	24	
342 mm	—	35	54	74	111	92	69	55	46	39	34	30	27	25	
351 mm	—	35	54	—	113	94	71	56	47	40	35	31	28	25	
360 mm	—	—	—	74	116	97	72	58	48	41	36	32	29	26	
369 mm	—	—	54	—	119	99	74	59	49	42	37	33	29	27	
378 mm	—	—	54	—	122	102	76	61	51	43	38	34	30	27	
396 mm	—	—	—	74	129	107	80	64	53	45	40	35	31	28	
405 mm	—	—	54	—	131	109	81	65	54	46	41	36	32	29	
414 mm	—	—	54	—	133	111	83	67	55	47	41	37	33	30	
432 mm	—	—	54	74	139	116	87	70	58	50	43	38	35	31	
441 mm	—	—	54	—	142	119	89	71	59	51	44	39	35	32	
450 mm	—	—	54	74	145	121	91	72	60	52	45	40	36	33	
459 mm	—	—	54	—	148	124	92	74	62	53	46	41	37	33	
468 mm	—	—	54	74	151	127	94	75	63	54	47	42	37	34	
477 mm	—	—	54	—	154	128	96	77	64	55	48	42	38	35	
486 mm	—	—	54	—	157	131	98	78	65	56	49	43	39	35	
504 mm	—	—	54	74	163	136	102	81	67	58	51	45	40	37	
513 mm	—	—	54	—	166	138	103	83	69	59	51	46	41	37	
540 mm	—	—	54	74	174	145	109	87	72	62	54	48	43	39	
576 mm	—	—	—	74	186	155	116	93	77	66	58	51	46	42	

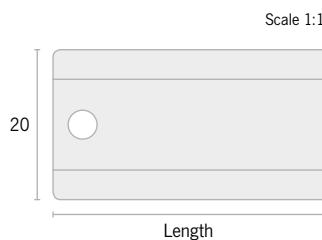
\*Stated values are approximate values that can vary, depending on font. Standard font is DIN 1451.

Please note: The max. character count might vary due to the different shapes of the characters.  
As standard for calculation, the letter "G" had been set for the fonts listed on the right side.

## 06/09 Series

**Is** Inserts

Standard sizes 54 up to 144 mm. Other sizes and prices on request.

**Sp** Slide-in profiles**Material**

Chlorid free plastic **P** / Aluminium, anodised **A**

**Quantity**

25 pieces

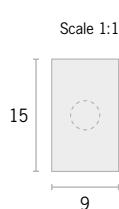
**Article**

0002

Length	Length of insert*	Mat.	Mat.
72 mm	54 mm	Order-No. <b>P</b> 02008	<b>A</b> 01993
90 mm	72 mm	Price € 13,75	€ 20,00
108 mm	90 mm	Order-No. <b>P</b> 02009	<b>A</b> 01994
126 mm	108 mm	Price € 15,00	€ 21,25
144 mm	126 mm	Order-No. <b>P</b> 02010	<b>A</b> 01995
162 mm	144 mm	Price € 16,25	€ 22,50
		Order-No. <b>P</b> 02011	<b>A</b> 01996
		Price € 17,50	€ 23,75
		Order-No. <b>P</b> 02012	<b>A</b> 01997
		Price € 18,75	€ 25,00
		Order-No. <b>P</b> 02013	<b>A</b> 01998
		Price € 20,00	€ 26,25

\*The number of symbols takes into account that there are always two additional outer elements.

**Fastening:** see page 65



## 0e Outer elements

Material	Quantity	Article
Luxotherm® L / Aluminium, anodised A	15 pieces	0001

### DIN 2403

Design	Mat.	No colour	Oxygen	Water	Steam	Air
		Neutral	RAL5005	RAL6032	RAL3001	RAL7004
without hole	Order-No. L	02110	02094	02096	02098	02100
	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
with hole	Order-No. A	02090	02074	02076	02078	02080
	Price	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40
without hole	Order-No. L	02109	02093	02095	02097	02099
	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
with hole	Order-No. A	02089	02073	02075	02077	02079
	Price	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40

### Gases

RAL1003  
Group 4/5

### Acids

RAL2010  
Group 6

### Alkalies

RAL4008  
Group 7

### Liquids and solids

RAL8002  
Group 8/9

### Additional colour

Black  
Zusatz

### Design

Design	Mat.	No colour	Gases	Acids	Alkalies	Liquids and solids	Additional colour
			RAL1003	RAL2010	RAL4008	RAL8002	Black Zusatz
without hole	Order-No. L	02102	02104	02106	02108	02112	02112
	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
with hole	Order-No. A	02082	02084	02086	02088	02092	02092
	Price	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40
without hole	Order-No. L	02101	02103	02105	02107	02111	02111
	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
with hole	Order-No. A	02081	02083	02085	02087	02091	02091
	Price	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40

### ISO 20560

Design	Mat.	No colour	Air	Water	Firefighting medium	Gases
			RAL5015	RAL6018	RAL3001	RAL7001
without hole	Order-No. L	32380	32138	32146	32134	32144
	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
with hole	Order-No. A	32378	32120	32128	32116	32126
	Price	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40
without hole	Order-No. L	32379	32137	32145	32133	32143
	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
with hole	Order-No. A	32377	32119	32127	32115	32125
	Price	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40

### Acids

RAL2003

### Alkalies (leaches)

RAL4001

### Liquids and fixed materials

RAL9004

### Safety colour

Hazardous substances  
RAL1003

### Design

Design	Mat.	No colour	Acids	Alkalies (leaches)	Liquids and fixed materials	Safety colour
			RAL2003	RAL4001	RAL9004	RAL1003
without hole	Order-No. L	32148	32132	32146	32134	32144
	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
with hole	Order-No. A	32130	32114	32128	32116	32126
	Price	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40
without hole	Order-No. L	32147	32131	32145	32133	32143
	Price	€ 1,30	€ 1,30	€ 1,30	€ 1,30	€ 1,30
with hole	Order-No. A	32129	32113	32127	32115	32125
	Price	€ 2,40	€ 2,40	€ 2,40	€ 2,40	€ 2,40

## 06/09 Series

**Gs** GHS pictograms**Material**

Luxotherm® L / Aluminium, anodised A

**Quantity**

10 pieces

**Article**

0003

*Mat.***Order-No.** L

Price

01246

€ 1,65

01247

€ 1,65

01248

€ 1,65

01249

€ 1,65

01250

€ 1,65

01237

€ 3,30

01238

€ 3,30

01239

€ 3,30

01240

€ 3,30

01241

€ 3,30

*Mat.***Order-No.** L

Price

01251

€ 1,65

01252

€ 1,65

01253

€ 1,65

01254

€ 1,65

01242

€ 3,30

01243

€ 3,30

01244

€ 3,30

01245

€ 3,30

*Mat.***Order-No.** L

Price

01256

€ 1,65

01257

€ 1,65

01258

€ 1,65

01259

€ 1,65

01260

€ 3,30

01261

€ 3,30

01262

€ 3,30

01263

€ 3,30

01264

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01280

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01299

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01300

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01301

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01364

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01377

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01378

€ 3,30

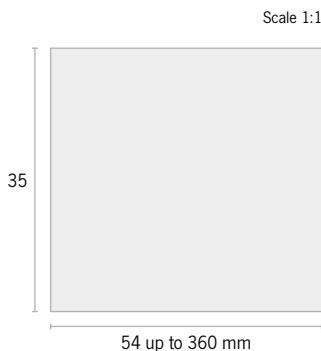
01379

€ 3,30

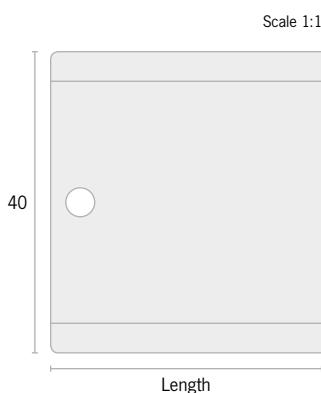
01380

## 18 Series

### Is Inserts



Standardgrößen 54 bis zu 360 mm. Andere Größen und Preise sind auf Anfrage erhältlich.



### Sp Slide-in profiles

#### Material

Chlorid free plastic **P** / Aluminium, anodised **A**

Quantity  
25 pieces

Article  
0002

Length	Length of insert*
72 mm	- / 54** mm
90 mm	54 / 72** mm
108 mm	72 / 90** mm
126 mm	90 / 108** mm
144 mm	108 / 126** mm
162 mm	126 / 144** mm
180 mm	144 / 162** mm
198 mm	162 / 180** mm
216 mm	180 / 198** mm
234 mm	198 / 216** mm
252 mm	216 / 234** mm
270 mm	234 / 252** mm
288 mm	252 / 270** mm
306 mm	270 / 288** mm
324 mm	288 / 306** mm
342 mm	306 / 324** mm
360 mm	324 / 342** mm

	Mat.	Mat.
Order-No. <b>P</b>	<b>06782</b>	<b>A 06778</b>
Price	€ 16,00	€ 23,25
Order-No. <b>P</b>	<b>06783</b>	<b>A 06779</b>
Price	€ 17,50	€ 24,75
Order-No. <b>P</b>	<b>06784</b>	<b>A 06780</b>
Price	€ 19,00	€ 26,25
Order-No. <b>P</b>	<b>06785</b>	<b>A 06781</b>
Price	€ 20,50	€ 27,75
Order-No. <b>P</b>	<b>02036</b>	<b>A 02023</b>
Price	€ 22,00	€ 29,25
Order-No. <b>P</b>	<b>02037</b>	<b>A 02024</b>
Price	€ 23,50	€ 30,75
Order-No. <b>P</b>	<b>02038</b>	<b>A 02025</b>
Price	€ 25,00	€ 32,25
Order-No. <b>P</b>	<b>02039</b>	<b>A 02026</b>
Price	€ 26,50	€ 33,75
Order-No. <b>P</b>	<b>02040</b>	<b>A 02027</b>
Price	€ 28,00	€ 35,25
Order-No. <b>P</b>	<b>02041</b>	<b>A 02028</b>
Price	€ 29,50	€ 36,75
Order-No. <b>P</b>	<b>02042</b>	<b>A 02029</b>
Price	€ 31,00	€ 38,75
Order-No. <b>P</b>	<b>02043</b>	<b>A 02030</b>
Price	€ 32,50	€ 40,25
Order-No. <b>P</b>	<b>02044</b>	<b>A 02031</b>
Price	€ 34,00	€ 41,75
Order-No. <b>P</b>	<b>02045</b>	<b>A 02032</b>
Price	€ 35,50	€ 43,25
Order-No. <b>P</b>	<b>02046</b>	<b>A 02033</b>
Price	€ 39,00	€ 46,25
Order-No. <b>P</b>	<b>02047</b>	<b>A 02034</b>
Price	€ 42,00	€ 49,25
Order-No. <b>P</b>	<b>02048</b>	<b>A 02035</b>
Price	€ 45,00	€ 52,25

\* The number of symbols takes into account that there are always two additional outer elements.

\*\* With half outer elements

Fastening: see page 65

## 18 Series

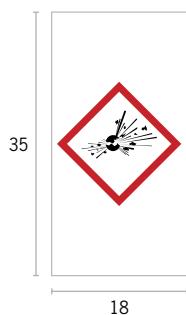
## 0e Outer Elements



Material		Quantity				Article	
Luxotherm® L / Aluminium, anodised A		15 pieces				0001	
DIN 2403		Oxygen		Water		Steam	
No colour	RAL5005			RAL6032		RAL3001	RAL7004
Neutral	Group 0	Group 1	Group 2	Group 3			
Design	Mat.	Whole	Half	Whole	Half	Whole	Half
without hole	Order-No. L	02186	02298	02170	02282	02172	02284
	Price	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
	Order-No. A	02166	02278	02150	02262	02152	02264
	Price	€ 6,00	€ 4,80	€ 6,00	€ 4,80	€ 6,00	€ 4,80
with hole	Order-No. L	02185	02297	02169	02283	02171	02285
	Price	€ 3,15	€ 2,45	€ 3,15	€ 2,45	€ 3,15	€ 2,45
	Order-No. A	02165	02277	02149	02261	02151	02263
	Price	€ 6,00	€ 4,50	€ 6,00	€ 4,80	€ 6,00	€ 4,80
ISO 20560		Gases		Acids		Alkalies	
		RAL1003		RAL2010		RAL4008	
		Group 4/5		Group 6		Group 7	
		Design		Mat.		Whole	
		without hole		Order-No. L		Whole	
		Price		02178		02180	
		Order-No. A		02290		02292	
		Price		€ 3,15		€ 3,15	
		Order-No. L		02158		02270	
		Price		€ 6,00		€ 6,00	
		Order-No. A		02177		02289	
		Price		€ 3,15		€ 3,15	
		Order-No. L		02157		02269	
		Price		€ 6,00		€ 6,00	
		Order-No. A		02159		02271	
		Price		€ 6,00		€ 6,00	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02182		02294	
		Price		€ 3,15		€ 2,45	
with hole		Order-No. A		02164		02276	
		Price		€ 6,00		€ 6,00	
with hole		Order-No. L		02183		02295	
		Price		€ 3,15		€ 2,45	
with hole		Order-No. A		02163		02275	
		Price		€ 6,00		€ 6,00	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02184		02296	
		Price		€ 3,15		€ 2,45	
with hole		Order-No. A		02168		02280	
		Price		€ 6,00		€ 6,00	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02188		02300	
		Price		€ 3,15		€ 2,45	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02189		02297	
		Price		€ 6,00		€ 6,00	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02190		02298	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02191		02299	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02192		02300	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02193		02301	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02194		02302	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02195		02303	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02196		02304	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02197		02305	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02198		02306	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02199		02307	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02200		02308	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02201		02309	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02202		02310	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02203		02311	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02204		02312	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02205		02313	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02206		02314	
		Price		€ 6,00		€ 4,80	
Design		Mat.		Whole		Half	
with hole		Order-No. L		02207		02315	

**Gs** GHS pictograms

Scale 1:1

**Material**Luxotherm®  L / Aluminium, anodised  A**Quantity**

15 pieces

**Article**

0003



GHS 01



GHS 02



GHS 03



GHS 04



GHS 05

Mat.

 L

18 mm

36 mm

 A

01624

33305

01625

33306

01626

33307

01627

33308

01628

33309

Price

€ 3,85

€ 6,85

€ 3,85

€ 6,85

€ 3,85

€ 6,85

€ 3,85

€ 6,85

€ 3,85

€ 6,85

 A

01525

33296

01526

33297

01527

33298

01528

33299

01529

33300

Price

€ 7,65

€ 13,35

€ 7,65

€ 13,35

€ 7,65

€ 13,35

€ 7,65

€ 13,35

Mat.



GHS 06



GHS 07



GHS 08



GHS 09

Mat.

 L

18 mm

36 mm

18 mm

36 mm

18 mm

36 mm

18 mm

36 mm

 A

01629

33310

01630

33311

01631

33312

01632

33313

Price

€ 3,85

€ 6,85

€ 3,85

€ 6,85

€ 3,85

€ 6,85

€ 3,85

€ 6,85

 A

01530

33301

01531

33302

01532

33303

01533

33304

Price

€ 7,65

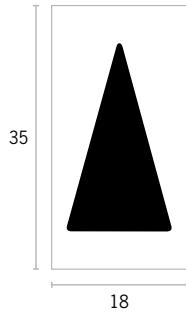
€ 13,35

€ 7,65

€ 13,35

**Af** Flow direction arrows

Scale 1:1

**Material**Luxotherm®  L / Aluminium, anodised  A**Quantity**

15 pieces

**Article**

0003



Mat.

 L

01772

€ 3,15

01774

€ 3,15

30301

€ 3,15

30302

€ 3,15

 A

01603

€ 6,30

01604

€ 6,30

30299

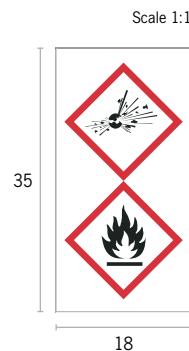
€ 6,30

30300

€ 6,30

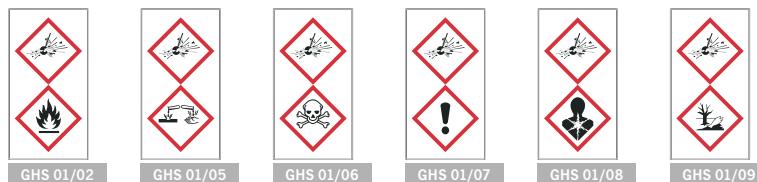
## 18 Series

## Gs GHS double pictograms



**Material**  
Luxotherm® L / Aluminium, anodised A

**Quantity** 15 pieces **Article** 0003



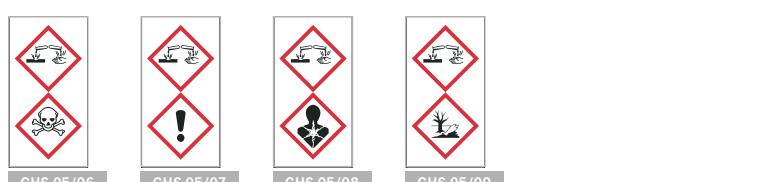
Mat.	Order-No. L	36548	36549	36550	36551	36552	36553
	Order-No. A	36523	36524	36525	36526	36527	36528
		Price € 3,85					



Mat.	Order-No. L	36554	36555	36556	36557	36558
	Order-No. A	36529	36530	36531	36532	36533
		Price € 3,85				



Mat.	Order-No. L	36559	36560	36561	36562	36563
	Order-No. A	36534	36535	36536	36537	36538
		Price € 3,85				



Mat.	Order-No. L	36564	36565	36566	36567
	Order-No. A	36539	36540	36541	36542
		Price € 3,85	Price € 3,85	Price € 3,85	Price € 3,85



Mat.	Order-No. L	36568	36569	36570	36571	36572
	Order-No. A	36543	36544	36545	36546	36547
		Price € 3,85				

## 27 Series

### Is Inserts

Scale 1:1



Standard sizes 54 up to 540 mm. Other sizes and prices on request.

54

54 bis zu 540 mm

### Sp Slide-in profiles

#### Material

Chlorid free plastic **P** / Aluminium, anodised **A**

#### Quantity

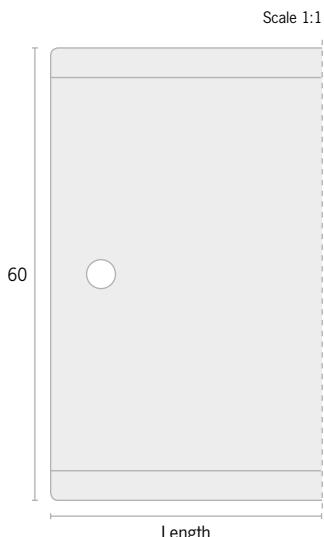
10 pieces

#### Article

0008

#### Length

#### Length of insert\*



60

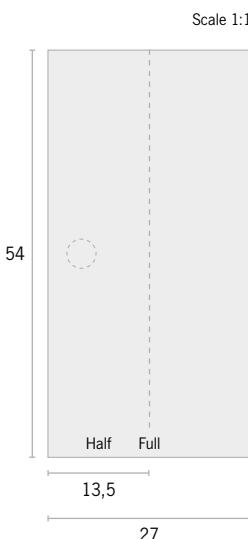
Length

	Mat.	Mat.
Order-No. <b>P</b>	<b>06812</b>	<b>06794</b>
Price	€ 8,60	€ 12,60
Order-No. <b>P</b>	<b>22066</b>	<b>22059</b>
Price	€ 9,30	€ 13,30
Order-No. <b>P</b>	<b>22067</b>	<b>22060</b>
Price	€ 10,00	€ 14,00
Order-No. <b>P</b>	<b>00544</b>	<b>00536</b>
Price	€ 10,70	€ 14,70
Order-No. <b>P</b>	<b>22068</b>	<b>22061</b>
Price	€ 11,40	€ 15,60
Order-No. <b>P</b>	<b>22069</b>	<b>22062</b>
Price	€ 12,10	€ 16,30
Order-No. <b>P</b>	<b>00545</b>	<b>00537</b>
Price	€ 12,80	€ 17,00
Order-No. <b>P</b>	<b>22070</b>	<b>22063</b>
Price	€ 13,50	€ 17,70
Order-No. <b>P</b>	<b>22071</b>	<b>22064</b>
Price	€ 14,20	€ 18,40
Order-No. <b>P</b>	<b>00546</b>	<b>00538</b>
Price	€ 14,90	€ 19,10
Order-No. <b>P</b>	<b>06813</b>	<b>06795</b>
Price	€ 15,80	€ 20,20
Order-No. <b>P</b>	<b>06814</b>	<b>06796</b>
Price	€ 16,50	€ 21,30
Order-No. <b>P</b>	<b>00547</b>	<b>00539</b>
Price	€ 17,20	€ 22,40
Order-No. <b>P</b>	<b>06815</b>	<b>06797</b>
Price	€ 17,90	€ 23,50
Order-No. <b>P</b>	<b>06816</b>	<b>06798</b>
Price	€ 18,60	€ 24,60
Order-No. <b>P</b>	<b>00548</b>	<b>00540</b>
Price	€ 19,30	€ 25,70
Order-No. <b>P</b>	<b>06817</b>	<b>06799</b>
Price	€ 20,00	€ 26,80
Order-No. <b>P</b>	<b>00549</b>	<b>00541</b>
Price	€ 20,50	€ 27,90
Order-No. <b>P</b>	<b>06818</b>	<b>06800</b>
Price	€ 21,40	€ 29,00
Order-No. <b>P</b>	<b>00550</b>	<b>00542</b>
Price	€ 22,80	€ 33,50
Order-No. <b>P</b>	<b>06819</b>	<b>06801</b>
Price	€ 24,20	€ 35,70
Order-No. <b>P</b>	<b>00551</b>	<b>00543</b>
Price	€ 25,60	€ 37,90

\* The number of symbols takes into account that there are always two additional outer elements.

\*\* With half outer elements

## 27 Series

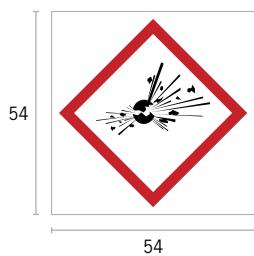
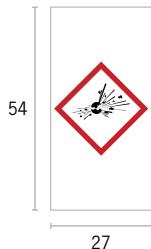


## Oe Outer elements

Material		Quantity		Article	
Luxotherm® L / Aluminium, anodised A		15 pieces		0007	
<b>DIN 2403</b>					
		No colour	Oxygen	Water	Steam
		RAL5005	RAL6032	RAL3001	RAL7004
		Neutral	Group 0	Group 1	Group 2
Design	Mat.	Whole	Half	Whole	Half
without hole	Order-No. L	<b>00619</b>	<b>20921</b>	<b>00603</b>	<b>20905</b>
	Price	€ 3,90	€ 4,65	€ 3,90	€ 4,65
	Order-No. A	<b>00599</b>	<b>20901</b>	<b>00583</b>	<b>20885</b>
	Price	€ 7,65	€ 9,15	€ 7,65	€ 9,15
with hole	Order-No. L	<b>00618</b>	<b>20920</b>	<b>00602</b>	<b>20904</b>
	Price	€ 3,90	€ 4,65	€ 3,90	€ 4,65
	Order-No. A	<b>00598</b>	<b>20900</b>	<b>00582</b>	<b>20884</b>
	Price	€ 7,65	€ 9,15	€ 7,65	€ 9,15
		Gases	Acids	Alkalies	Liquids and solids
		RAL1003	RAL2010	RAL4008	RAL8002
		Group 4/5	Group 6	Group 7	Group 8/9
Design	Mat.	Whole	Half	Whole	Half
without hole	Order-No. L	<b>00611</b>	<b>20913</b>	<b>00613</b>	<b>20915</b>
	Price	€ 3,90	€ 4,65	€ 3,90	€ 4,65
	Order-No. A	<b>00591</b>	<b>20893</b>	<b>00593</b>	<b>20895</b>
	Price	€ 7,65	€ 9,15	€ 7,65	€ 9,15
with hole	Order-No. L	<b>00610</b>	<b>20912</b>	<b>00612</b>	<b>20914</b>
	Price	€ 3,90	€ 4,65	€ 3,90	€ 4,65
	Order-No. A	<b>00590</b>	<b>20892</b>	<b>00592</b>	<b>20894</b>
	Price	€ 7,65	€ 9,15	€ 7,65	€ 9,15
		Air	Water	Firefighting medium	Gases
		RAL5015	RAL6018	RAL3001	RAL7001
		No colour			
Design	Mat.	Whole	Half	Whole	Half
without hole	Order-No. L	<b>30813</b>	<b>50963</b>	<b>30647</b>	<b>50949</b>
	Price	€ 3,90	€ 4,65	€ 3,90	€ 4,65
	Order-No. A	<b>30811</b>	<b>50961</b>	<b>30629</b>	<b>50931</b>
	Price	€ 7,65	€ 9,15	€ 7,65	€ 9,15
with hole	Order-No. L	<b>30812</b>	<b>50962</b>	<b>30646</b>	<b>50948</b>
	Price	€ 3,90	€ 4,65	€ 3,90	€ 4,65
	Order-No. A	<b>30810</b>	<b>50960</b>	<b>30628</b>	<b>50930</b>
	Price	€ 7,65	€ 9,15	€ 7,65	€ 9,15
		Acids	Alkalies (leaches)	Liquids and fixed materials	
		RAL2003	RAL4001	RAL9004	
Design	Mat.	Whole	Half	Whole	Half
without hole	Order-No. L	<b>30657</b>	<b>50959</b>	<b>30641</b>	<b>50943</b>
	Price	€ 3,90	€ 4,65	€ 3,90	€ 4,65
	Order-No. A	<b>30639</b>	<b>50941</b>	<b>30623</b>	<b>50925</b>
	Price	€ 7,65	€ 9,15	€ 7,65	€ 9,15
with hole	Order-No. L	<b>30656</b>	<b>50958</b>	<b>30640</b>	<b>50942</b>
	Price	€ 3,90	€ 4,65	€ 3,90	€ 4,65
	Order-No. A	<b>30638</b>	<b>50940</b>	<b>30622</b>	<b>50924</b>
	Price	€ 7,65	€ 9,15	€ 7,65	€ 9,15
		Hazardous substances			
		RAL1003			
		Whole	Half	Whole	Half
		<b>30645</b>	<b>50947</b>	<b>30627</b>	<b>50929</b>
		€ 3,90	€ 4,65	€ 7,65	€ 9,15
		<b>30644</b>	<b>50946</b>	<b>30626</b>	<b>50928</b>
		€ 3,90	€ 4,65	€ 7,65	€ 9,15

**Gs** GHS pictograms

Scale 1:2

**Material**Luxotherm® **L** / Aluminium, anodised **A****Quantity****Article**

15 pieces

0009



Mat.

GHS 01

GHS 02

GHS 03

GHS 04

GHS 05

Order-No. **L**

00463

33333

00466

33334

00469

33335

00471

33336

00474

33337

Price

€ 5,05

€ 8,50

€ 5,05

€ 8,50

€ 5,05

€ 8,50

€ 5,05

€ 8,50

€ 5,05

€ 8,50

Order-No. **A**

00438

33324

00441

33325

00444

33326

00446

33327

00449

33328

Price

€ 9,45

€ 15,75

€ 9,45

€ 15,75

€ 9,45

€ 15,75

€ 9,45

€ 15,75

€ 9,45

€ 15,75



Mat.

GHS 06

GHS 07

GHS 08

GHS 09

Order-No. **L**

00476

33341

00478

33338

00481

33339

00483

33340

Price

€ 5,05

€ 8,50

€ 5,05

€ 8,50

€ 5,05

€ 8,50

€ 5,05

€ 8,50

Order-No. **A**

00451

33329

00453

33330

00456

33331

00458

33332

Price

€ 9,45

€ 15,75

€ 9,45

€ 15,75

€ 9,45

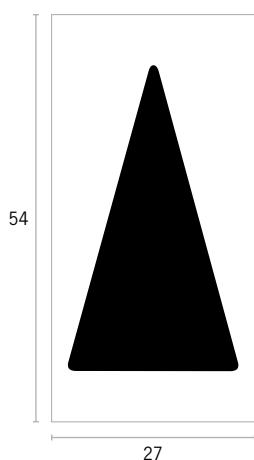
€ 15,75

€ 9,45

€ 15,75

**Af** Flow direction arrows

Scale 1:1

**Material**Luxotherm® **L** / Aluminium, anodised **A****Quantity****Article**

15 pieces

0009



Mat.

00484

00485

30307

30308

Price

€ 3,90

€ 3,90

€ 3,90

€ 3,90

Order-No. **L**

00459

00460

30305

30306

Price

€ 7,80

€ 7,80

€ 7,80

€ 7,80

Order-No. **A**

00451

00453

30331

30332

Price

€ 7,80

€ 7,80

€ 7,80

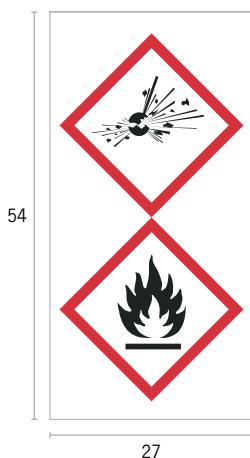
€ 7,80

€ 7,80

## 27 Series

## Gs GHS double pictograms

Scale 1:1



Material	Quantity						Article
Luxotherm® L / Aluminium, anodised A	15 pieces						0009
Mat.	GHS 01/02	GHS 01/05	GHS 01/06	GHS 01/07	GHS 01/08	GHS 01/09	
Order-No. L	36599	36600	36601	36602	36603	36604	
Price	€ 5,05	€ 5,05	€ 5,05	€ 5,05	€ 5,05	€ 5,05	
Order-No. A	36574	36575	36576	36577	36578	36579	
Price	€ 9,45	€ 9,45	€ 9,45	€ 9,45	€ 9,45	€ 9,45	
Mat.	GHS 02/05	GHS 02/06	GHS 02/07	GHS 02/08	GHS 02/09		
Order-No. L	36605	36606	36607	36608	36609		
Price	€ 5,05	€ 5,05	€ 5,05	€ 5,05	€ 5,05		
Order-No. A	36580	36581	36582	36583	36584		
Price	€ 9,45	€ 9,45	€ 9,45	€ 9,45	€ 9,45		
Mat.	GHS 03/05	GHS 03/06	GHS 03/07	GHS 03/08	GHS 03/09		
Order-No. L	36610	36611	36612	36613	36614		
Price	€ 5,05	€ 5,05	€ 5,05	€ 5,05	€ 5,05		
Order-No. A	36585	36586	36587	36588	36589		
Price	€ 9,45	€ 9,45	€ 9,45	€ 9,45	€ 9,45		
Mat.	GHS 05/06	GHS 05/07	GHS 05/08	GHS 05/09			
Order-No. L	36615	36616	36617	36618			
Price	€ 5,05	€ 5,05	€ 5,05	€ 5,05			
Order-No. A	36590	36591	36592	36593			
Price	€ 9,45	€ 9,45	€ 9,45	€ 9,45			
Mat.	GHS 06/08	GHS 06/09	GHS 07/08	GHS 07/09	GHS 08/09		
Order-No. L	36619	36620	36621	36622	36623		
Price	€ 5,05	€ 5,05	€ 5,05	€ 5,05	€ 5,05		
Order-No. A	36594	36595	36596	36597	36598		
Price	€ 9,45	€ 9,45	€ 9,45	€ 9,45	€ 9,45		

## 36 Series

### Is Inserts

Scale 1:1



Standard sizes 36 up to 576 mm. Other sizes and prices on request.

### Sp Slide-in profiles

#### Material

Chlorid free plastic **P** / Aluminium, anodised **A**

#### Quantity

10 pieces

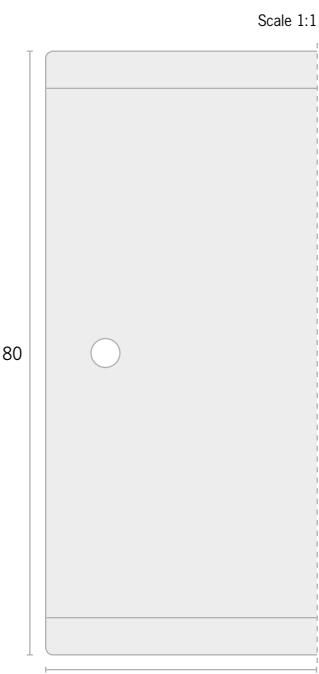
#### Article

0008

Length	Length of insert*	Mat.	Mat.
108 mm	36 / 72** mm	Order-No. <b>P</b> 06820	<b>A</b> 06802
126 mm	54 / 90** mm	Price € 10,10	€ 14,90
144 mm	72 / 108** mm	Order-No. <b>P</b> 06821	<b>A</b> 06803
162 mm	90 / 126** mm	Price € 11,90	€ 15,90
180 mm	108 / 144** mm	Order-No. <b>P</b> 00566	<b>A</b> 00552
198 mm	126 / 162** mm	Price € 11,30	€ 16,70
216 mm	144 / 180** mm	Order-No. <b>P</b> 06822	<b>A</b> 06804
234 mm	162 / 198** mm	Price € 11,90	€ 17,50
252 mm	180 / 216** mm	Order-No. <b>P</b> 00567	<b>A</b> 00553
270 mm	198 / 234** mm	Price € 12,50	€ 18,30
288 mm	216 / 252** mm	Order-No. <b>P</b> 06823	<b>A</b> 06805
306 mm	234 / 270** mm	Price € 13,10	€ 19,10
324 mm	252 / 288** mm	Order-No. <b>P</b> 00568	<b>A</b> 00554
342 mm	270 / 306** mm	Price € 13,70	€ 19,90
360 mm	288 / 324** mm	Order-No. <b>P</b> 06825	<b>A</b> 06806
378 mm	306 / 342** mm	Price € 14,30	€ 20,50
396 mm	324 / 360** mm	Order-No. <b>P</b> 00569	<b>A</b> 00555
432 mm	360 / 396** mm	Price € 14,90	€ 21,50
468 mm	396 / 432** mm	Order-No. <b>P</b> 06826	<b>A</b> 06807
486 mm	414 / 450** mm	Price € 15,70	€ 22,30
504 mm	432 / 468** mm	Order-No. <b>P</b> 00570	<b>A</b> 00556
540 mm	468 / 504** mm	Price € 16,90	€ 23,90
576 mm	504 / 540** mm	Order-No. <b>P</b> 06827	<b>A</b> 06808
612 mm	540 / 576** mm	Price € 16,90	€ 23,90

\*The number of symbols takes into account that there are always two additional outer elements.

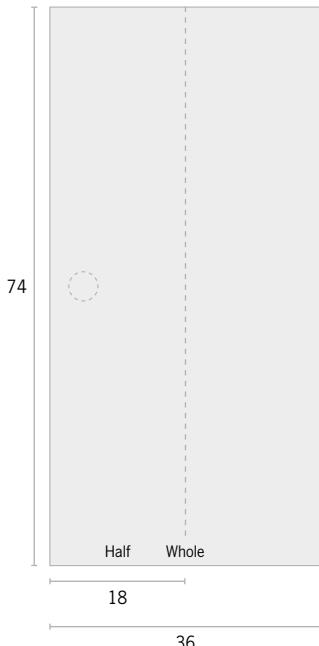
\*\*With half outer elements



## 36 Series

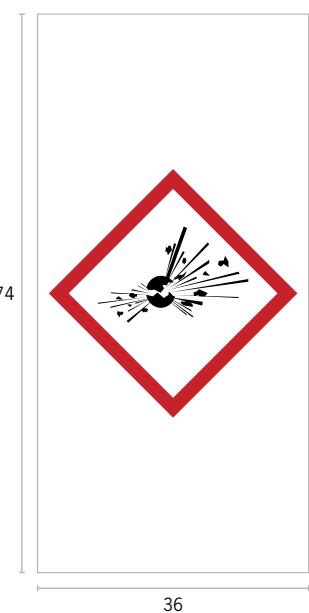
## Oe Outer elements

Scale 1:1



**Gs** GHS pictograms

Scale 1:1

**Material**Luxotherm® **L** / Aluminium, anodised **A****Quantity**

15 pieces

**Article**

0009



GHS 01



GHS 02



GHS 03



GHS 04



GHS 05

Mat.

36 mm

72 mm

Order-No.

00513

33351

00516

33352

00519

33353

00521

33354

00524

33355

Price

€ 9,00

€ 15,60

€ 9,00

€ 15,60

€ 9,00

€ 15,60

€ 9,00

€ 15,60

€ 9,00

€ 15,60

Order-No.

00488

33342

00491

33343

00494

33344

00496

33345

00499

33346

Price

€ 17,70

€ 31,80

€ 17,70

€ 31,80

€ 17,70

€ 31,80

€ 17,70

€ 31,80

€ 17,70

€ 31,80



GHS 06



GHS 07



GHS 08



GHS 09

Mat.

36 mm

36 mm

36 mm

36 mm

36 mm

72 mm

Order-No.

00526

33356

00528

33357

00531

33358

00533

33359

Price

€ 9,00

€ 15,60

€ 9,00

€ 15,60

€ 9,00

€ 15,60

€ 9,00

€ 15,60

Order-No.

00501

33347

00503

33348

00506

33349

00508

33350

Price

€ 17,70

€ 31,80

€ 17,70

€ 31,80

€ 17,70

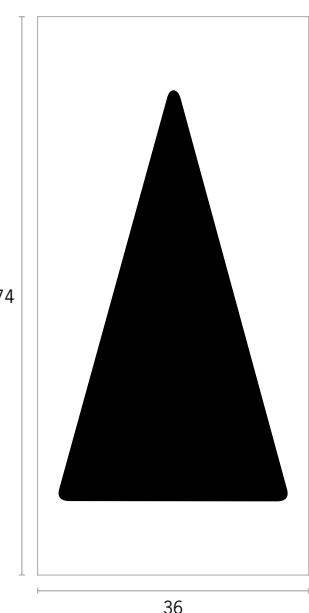
€ 31,80

€ 17,70

€ 31,80

**Af** Flow direction arrows

Scale 1:1

**Material**Luxotherm® **L** / Aluminium, anodised **A****Quantity**

15 pieces

**Article**

0009



Mat.

00534

€ 7,35



00535

€ 7,35



30311

€ 7,35



30312

€ 7,35

Order-No.

00509

€ 14,40

00510

€ 14,40

30309

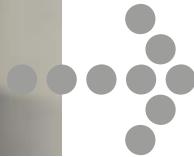
€ 14,40

30310

€ 14,40

Price

# Pipe Labelling – Stickers and Tapes



Proper pipe identification not only poses fewer potential risks for your employees, but it also facilitates repair and maintenance work in industrial plants and power stations. At the very least, and in accordance with the German regulation TRGS 201 ("Technical Rules for Hazardous Substances" 201), pipes must be labelled with the fluid conveyed and the flow direction. With our product range and know-how, we also provide our customers with the certainty that their labelling meets the requirements of DIN 2403.

## Product overview:

- **Pipe markers** – cost-effective solution for pipes with a small labelling area
- **Colour tape** – individually labelling of pipes according to the fluid conveyed
- **Arrow tape** – individually labelling of pipes according to the flow direction
- **Text tape** – readable from all sides because they are completely wrapped around the pipe
- **GHS tape** – for labelling hazardous substances in accordance with the GHS regulation

## Specifics of our Pipe Markers and Tapes:

- Flame-resistant
- Self-extinguishing
- Extreme adhesive power
- Mostly resistant against acid and alkaline substances
- UV resistant
- Can be applied at temperatures of 5°C to 45°C
- Resistant to temperatures of -30°C to -90°C
- Mostly solvent resistant
- Weatherproof

You can of course also label your pipes with the array of products from the slide-in system or printed and engraved signs. Contact us – we will gladly find the best solution for you.



## Pipe markers

Material	Temperature resistance	Quantity
Foil with matt polymer laminate	-20 – 110°C	1 piece

### DIN 2403

Application	Colour	Additional colour	Text colour
Oxygen	RAL5005	–	RAL9003 (white)
Water	RAL6032	–	RAL9003 (white)
Steam	RAL3001	–	RAL9003 (white)
Air	RAL7004	–	RAL9004
Flammable gases	RAL1003	RAL3001	RAL9004
Non flammable gases	RAL1003	RAL9004	RAL9004
Acids	RAL2010	–	RAL9004
Alkalies	RAL4008	–	RAL9003 (white)
Flammable liquids and solids	RAL8002	RAL3001	RAL9003 (white)
Non flammable liquids and solids	RAL8002	RAL9004	RAL9003 (white)

### ISO 20560

Application	Colour
Gases	RAL7001
Liquids and fixed materials	RAL9004
Acids	RAL2003
Alkalies (leaches)	RAL4001
Firefighting medium	RAL3001
Water	RAL6018
Air	RAL5015
Hazardous substances	RAL1003

### Distance of observation

The formula for calculating the distance of observation is:

$$D = h \times Z$$

D = distance of observation in m,  
h = font height in mm,

Z = distance factor **DIN 2403**:  
300 for letters and symbols  
40 for safety symbols

Z = distance factor **ISO 20560**:  
300 for letters and symbols  
60 for safety symbols

### Dimensions and distance of observation



Width (W) x Height (H)	110 x 18 mm	156 x 25 mm	227 x 37 mm	402 x 52 mm	450 x 73 mm	720 x 116 mm
Font height (h)	12 mm	17 mm	25 mm	29 mm	50 mm	80 mm
Distance of observation (m)	3,6 m	5,1 m	7,5 m	8,7 m	15 m	24 m

If you are interested in this product, we will be happy to provide you with an order form upon request.



## Colour tapes

Material	Temperature resistance	Quantity
Foil with matt polymer laminate	-20 – 110°C	1 piece

All prices on request. Please specify colour and application when ordering.

### DIN 2403

Width x Length	Application	Colour	W = 90 mm	W = 120 mm	W = 200 mm
W x 25 Meter	Oxygen	RAL5005			
W x 25 Meter	Water	RAL6032			
W x 25 Meter	Steam	RAL3001			
W x 25 Meter	Air	RAL7004			
W x 25 Meter	Gases	RAL1003			
W x 25 Meter	Acids	RAL2010			
W x 25 Meter	Alkalies	RAL4008	€ 139,00	€ 189,00	€ 299,00
W x 25 Meter	Liquids and solids	RAL8002			
W x 25 Meter	Fire equipment notice indicating water	RAL3001   RAL6032			
W x 25 Meter	Fire equipment notice indicating gas	RAL3001   RAL1003			
W x 25 Meter	Fire equipment notice indicating steam	RAL3001   RAL3001			
W x 25 Meter	Fire equipment notice indicating other	RAL3001   RAL9004			

### ISO 20560

Width x Length	Application	Colour	W = 90 mm	W = 120 mm	W = 200 mm
W x 25 Meter	Gases	RAL7001			
W x 25 Meter	Liquids and fixed materials	RAL9004			
W x 25 Meter	Acids	RAL2003			
W x 25 Meter	Alkalies (leaches)	RAL4001			
W x 25 Meter	Firefighting medium	RAL3001	€ 139,00	€ 189,00	€ 299,00
W x 25 Meter	Water	RAL6018			
W x 25 Meter	Air	RAL5015			

### Safety colour

Width x Length	Application	Colour
W x 25 Meter	Hazardous substances	RAL1003

If you are interested in this product, we will be happy to provide you with an order form upon request.



Colour tapes





## Arrow tapes

Material	Temperature resistance	Quantity
Foil with matt polymer laminate	-20 – 110°C	1 piece

All prices on request. Please specify tape and arrow colour when ordering.

### DIN 2403

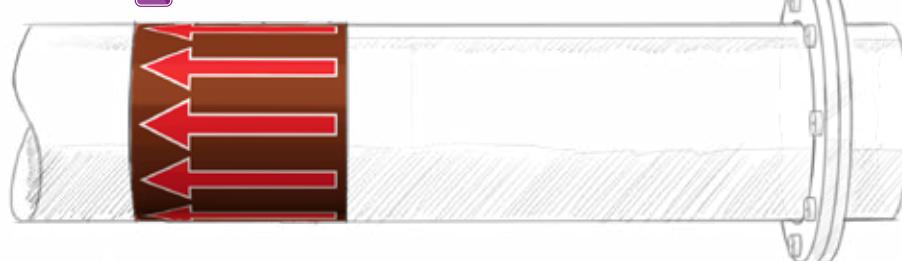
Width x Length	Application	Tape colour	Arrow colour	W = 90 mm	W = 120 mm	W = 200 mm
W x 25 Meter	Oxygen	RAL5005	→			
W x 25 Meter	Water	RAL6032	→			
W x 25 Meter	Steam	RAL3001	→			
W x 25 Meter	Air	RAL7004	→			
W x 25 Meter	Flammable gases	RAL1003	→			
W x 25 Meter	Non flammable gases	RAL1003	→			
W x 25 Meter	Acids	RAL2010	→			
W x 25 Meter	Alkalies	RAL4008	→			
W x 25 Meter	Flammable liquids and solids	RAL8002	→			
W x 25 Meter	Non flammable liquids and solids	RAL8002	→			
W x 25 Meter	Direction	No colour	→			
W x 25 Meter	Direction	No colour	→	€ 139,00	€ 189,00	€ 299,00

### ISO 20560

Width x Length	Application	Tape colour	Arrow colour	W = 90 mm	W = 120 mm	W = 200 mm
W x 25 Meter	Gases	RAL7001	→			
W x 25 Meter	Liquids and fixed materials	RAL9004	→			
W x 25 Meter	Acids	RAL2003	→			
W x 25 Meter	Alkalies (leaches)	RAL4001	→			
W x 25 Meter	Firefighting medium	RAL3001	→			
W x 25 Meter	Water	RAL6018	→			
W x 25 Meter	Air	RAL5015	→	€ 139,00	€ 189,00	€ 299,00

If you are interested in this product, we will be happy to provide you with an order form upon request.

### At Arrow tapes





## Text tapes

Material	Temperature resistance	Quantity
Foil with matt polymer laminate	-20 – 110°C	1 piece

All prices on request. Please specify colour and application when ordering.

### DIN 2403

Width x Length	Application	Colour	W = 90 mm	W = 120 mm	W = 200 mm
W x 25 Meter	Oxygen	RAL5005			
W x 25 Meter	Water	RAL6032			
W x 25 Meter	Steam	RAL3001			
W x 25 Meter	Air	RAL7004			
W x 25 Meter	Flammable gases	RAL1003			
W x 25 Meter	Non flammable gases	RAL1003			
W x 25 Meter	Acids	RAL2010			
W x 25 Meter	Alkalies	RAL4008			
W x 25 Meter	Flammable liquids and solids	RAL8002			
W x 25 Meter	Non flammable liquids and solids	RAL8002			
W x 25 Meter	Direction	No colour			

### ISO 20560

Width x Length	Application	Colour	W = 90 mm	W = 120 mm	W = 200 mm
W x 25 Meter	Gases	RAL7001			
W x 25 Meter	Liquids and fixed materials	RAL9004			
W x 25 Meter	Acids	RAL2003			
W x 25 Meter	Alkalies (leaches)	RAL4001			
W x 25 Meter	Firefighting medium	RAL3001			
W x 25 Meter	Water	RAL6018			
W x 25 Meter	Air	RAL5015			

If you are interested in this product, we will be happy to provide you with an order form upon request.



Text tapes





## GHS tapes

Material	Temperature resistance	Quantity	Article
Foil with matt polymer laminate	-20 – 110°C	1 piece	0005

### DIN 2403

#### Width x Length

45 mm x 25 Meter	Order-No. Price	GHS 01	GHS 02	GHS 03	GHS 04	GHS 05	GHS 06
90 mm x 25 Meter	Order-No. Price	50871 € 79,00	50872 € 79,00	50873 € 79,00	50874 € 79,00	50875 € 79,00	50876 € 79,00
120 mm x 25 Meter	Order-No. Price	50882 € 139,00	50885 € 139,00	50888 € 139,00	50890 € 139,00	50893 € 139,00	50895 € 139,00
120 mm x 25 Meter	Order-No. Price	53272 € 189,00	53273 € 189,00	53274 € 189,00	53275 € 189,00	53276 € 189,00	53277 € 189,00
200 mm x 25 Meter	Order-No. Price	53281 € 299,00	53282 € 299,00	53283 € 299,00	53284 € 299,00	53285 € 299,00	53286 € 299,00



#### Width x Length

45 mm x 25 Meter	Order-No. Price	GHS 07	GHS 08	GHS 09
90 mm x 25 Meter	Order-No. Price	50877 € 79,00	50878 € 79,00	50879 € 79,00
120 mm x 25 Meter	Order-No. Price	50897 € 139,00	50900 € 139,00	50902 € 139,00
120 mm x 25 Meter	Order-No. Price	53278 € 189,00	53279 € 189,00	53280 € 189,00
200 mm x 25 Meter	Order-No. Price	53287 € 299,00	53288 € 299,00	53289 € 299,00



### ISO 20560

#### Width x Length

45 mm x 25 Meter	Order-No. Price	GHS 01	GHS 02	GHS 03	GHS 04	GHS 05	GHS 06
60 mm x 25 Meter	Order-No. Price	53290 € 79,00	53291 € 79,00	53292 € 79,00	53293 € 79,00	53294 € 79,00	53295 € 79,00
100 mm x 25 Meter	Order-No. Price	53299 € 99,00	53300 € 99,00	53301 € 99,00	53302 € 99,00	53303 € 99,00	53304 € 99,00
100 mm x 25 Meter	Order-No. Price	53308 € 159,00	53309 € 159,00	53310 € 159,00	53311 € 159,00	53312 € 159,00	53313 € 159,00



#### Width x Length

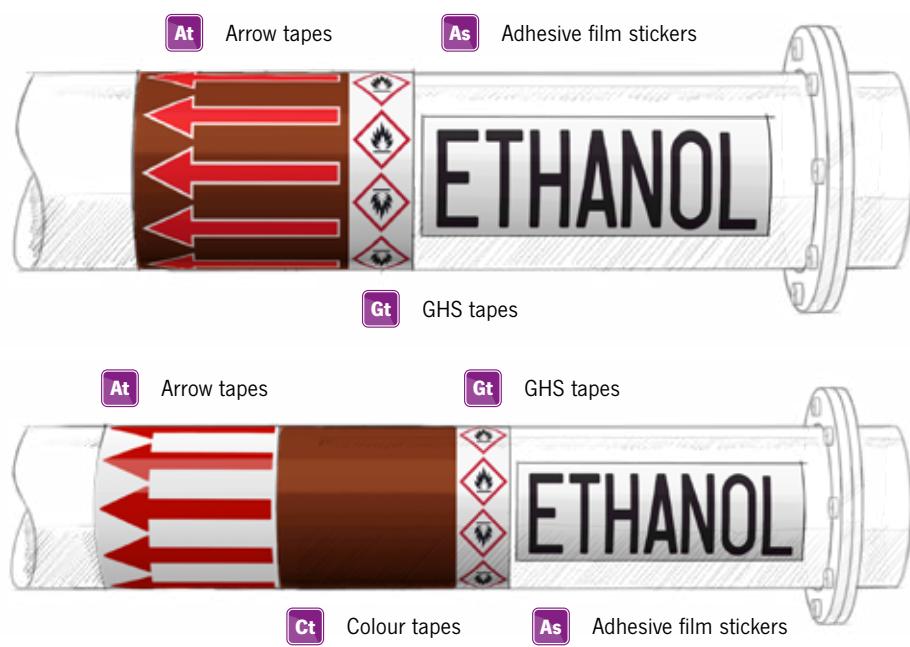
45 mm x 25 Meter	Order-No. Price	GHS 07	GHS 08	GHS 09
60 mm x 25 Meter	Order-No. Price	53296 € 79,00	53297 € 79,00	53298 € 79,00
100 mm x 25 Meter	Order-No. Price	53305 € 99,00	53306 € 99,00	53307 € 99,00
100 mm x 25 Meter	Order-No. Price	53314 € 159,00	53315 € 159,00	53316 € 159,00





### Module system and adhesive film stickers

Our module system allows for flexible combinations of all pipe labelling variants (colour, arrow and GHS tapes) and complement with an adhesive film sticker. The size of this, sticker showing the actual name of the substance within the pipe, can be adjusted individually. The height of the font is determined according to available place and diameter of the pipe and requested distance of observation in order to ensure the readability of the information even from great distance.



# Tank Labelling



Tanks containing hazardous substances must be labelled according to German regulation TRGS 201 in order to ensure correct identification of the contents. The information must be mounted in a clearly visible, safe and durable manner. On the one hand, this aids in the work of your responsible employees, and on the other, easy-to-read and quickly comprehensible labels facilitate the tasks that fire brigades and rescue workers perform in emergency situations.

Using various designs, we adapt the labelling to suit your situation on site. As a rule, flexible basic materials or films are printed in combination with the desired information on the tanks' contents and the necessary hazard indicators. In doing so, the size of the labelling should be adapted not only to the on-site conditions and installation location, but also to the bend in the base area and the desired observations distance. In Germany, it is mandatory to label and tanks with

GHS pictograms. In addition, some tanks are furnished with hazardous diamonds or safety and identification numbers according to their hazard class, displaying the relevant hazards. Furthermore, information about volume, inner pressure or a numeric order might be required. We are prepared to address your individual needs regarding contents, manufacturing and fastening.



## NFPA 704 Hazard Diamond

### Standard System for the Identification of the Hazard of Materials for Emergency Response

In case of accidents involving hazardous substances, the hazard diamond helps safety and rescue forces to immediately evaluate possible dangers. The hazard diamond shows four coloured fields: blue for safety hazards, red for flammability, yellow for instable substances and a white field at the bottom for specific warning information.

#### Health Hazard

0	Poses no health hazard
1	Minor hazard   breathing apparatus recommended
2	Dangerous   Wear light protective clothing and breathing apparatus in danger zone
3	Very dangerous   Wear full protective clothing and breathing apparatus in danger zone
4	Can be lethal   Avoid any contact with vapours or liquids without suitable protective equipment

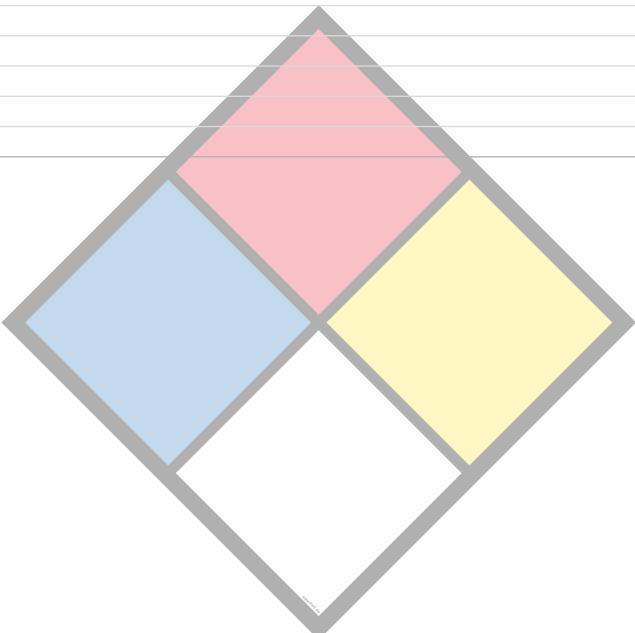
#### Flammability

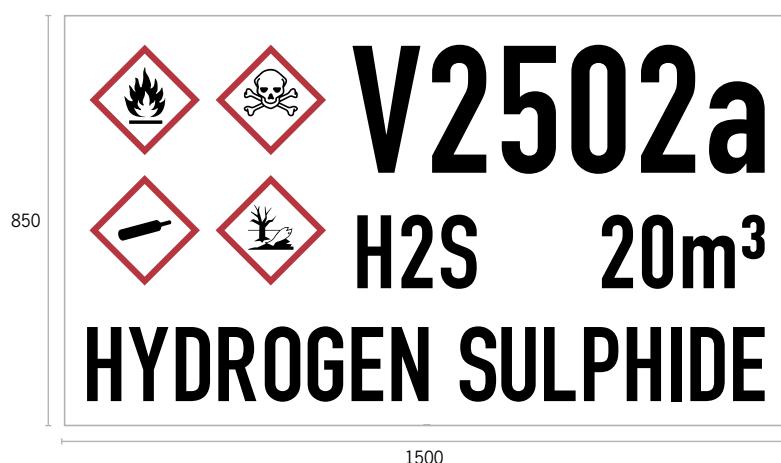
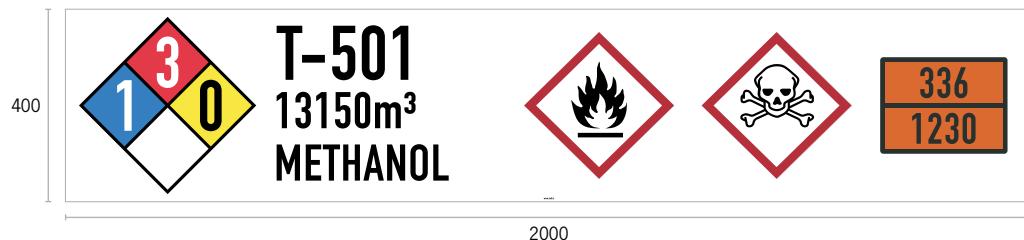
0	Materials will not burn under typical conditions
1	Materials require considerable preheating before ignition / combustion can occur
2	Materials must be moderately heated before ignition can occur
3	Materials can be ignited under almost all ambient temperature
4	Materials will burn readily at normal temperatures

#### Instability

0	Normally stable
1	Can become unstable at elevated temperatures   Protection measures required
2	Violent chemical reaction possible; advanced protection measures required; execute fire-fighting only from safe distance
3	Capable of detonation or explosive decomposition when heated or severely shocked; establish a safety zone; execute fire-fighting only from safe distance
4	Readily capable of detonation or explosive decomposition; establish a safety zone; evacuate area in case of fire

(empty)	Use water as extinguishing agent
W	Do not use water as extinguishing agent
OX	Oxidizer, chemicals burn without air supply
ACID	Strong acid
ALK	Strong base
COR	Strong corrosive
BIO	Biological hazard
_RADIOACTIVE	Radioactive hazard





# Pre-labelling

Pre-labelling tags make things easier for both you and us. They are installed as temporary labels in the plant during construction and renovation works and are then replaced by the significantly more durable and uniformly recognisable plant labelling upon the launch of plant operations or thereafter. For this temporary application, we offer you a good price-performance ratio with regard to durability, ease of use and cost.



## Pre-labelling tags

Material	Quantity	Article
Plastic <b>P</b> / Painted sheet steel <b>S</b>	100 pieces	0010
<i>Width x Height x Thickness</i>	<i>Colour</i>	
120 x 65 x 0,03 mm	White	
120 x 65 x 0,03 mm	Red	
120 x 65 x 0,03 mm	Yellow	
120 x 65 x 0,03 mm	Green	
120 x 65 x 0,03 mm	Blue	
120 x 65 x 0,03 mm	Orange	
	<i>Mat.</i>	<i>Mat.</i>
Order-No. <b>P</b>	<b>00271</b>	<b>00277</b>
Price	€ 16,10	€ 27,60
Order-No. <b>P</b>	<b>00272</b>	<b>00278</b>
Price	€ 16,10	€ 27,60
Order-No. <b>P</b>	<b>00273</b>	<b>00279</b>
Price	€ 16,10	€ 27,60
Order-No. <b>P</b>	<b>00274</b>	<b>00280</b>
Price	€ 16,10	€ 27,60
Order-No. <b>P</b>	<b>00275</b>	<b>–</b>
Price	€ 16,10	–
Order-No. <b>P</b>	<b>00276</b>	<b>–</b>
Price	€ 16,10	–



## Plomber

Material	Quantity	Article
Lead	100 pieces	0019
<i>Application</i>		
For sealing wire	Order-No.	14505
	Price	€ 30,00



## Sealing wire

Material	Quantity	Article
Galvanised steel <b>S</b> / Stainless steel <b>S</b>	100 pieces	0020
<i>Length</i>	<i>Application</i>	
230 mm	Pre-labelling tags	
	<i>Mat.</i>	<i>Mat.</i>
Order-No. <b>S</b>	<b>00101</b>	<b>00100</b>
Price	€ 4,20	€ 18,90

# Fastening and Accessories

In order for a sign to aid in providing comprehension, safety and orientation, it must be properly installed. Our fastening products therefore offer the right solution for each of our plant labelling systems. Tried, tested and durable, the different sizes and types of signs can be fastened to the necessary installation points in a clearly visible manner.

Our sign-bracket, which comes in various designs, serves as the base. It matches the sizes and perforations of our original Stell "Stecksystem", the slide-in system and the standardised dimensions of the engraved and printed signs. The sign-bracket is fixed with our pipe clamp, which allows for reliable labelling that is gentle on the object to which it is attached. Our range is broadened by additional fastenings and fastening accessories. For further questions regarding our products our sales team is always at your disposal.



## Sb Sign brackets

### Material

Aluminium **A** / Stainless steel **S**

Height Length

52 mm

Mat.

19924

Mat.

19895

70 mm

Order-No.

A 00181

Price

€ 13,00

S 00197

€ 18,00

88 mm

Order-No.

A 00182

Price

€ 14,00

S 00198

€ 19,00

106 mm

Order-No.

A 00183

Price

€ 14,50

S 00199

€ 19,50

124 mm

Order-No.

A 00184

Price

€ 15,00

S 00200

€ 20,00

142 mm

Order-No.

A 00185

Price

€ 15,50

S 00201

€ 20,50

18 mm 160 mm

Order-No.

A 00186

Price

€ 16,00

S 00202

€ 21,00

178 mm

Order-No.

A 00123

Price

€ 24,00

S 00152

€ 27,00

196 mm

Order-No.

A 00124

Price

€ 25,00

S 00153

€ 28,00

214 mm

Order-No.

A 00125

Price

€ 26,00

S 00154

€ 29,00

232 mm

Order-No.

A 00126

Price

€ 27,00

S 00155

€ 30,00

250 mm

Order-No.

A 00127

Price

€ 28,00

S 00156

€ 31,00

268 mm

Order-No.

A 00128

Price

€ 29,00

S 00157

€ 33,00

Height Length

52 mm

Mat.

21371

Price

€ 13,00

S 20418

€ 19,00

70 mm

Order-No.

A 00187

Price

€ 14,00

S 00203

€ 19,50

88 mm

Order-No.

A 00188

Price

€ 14,50

S 00204

€ 20,00

106 mm

Order-No.

A 00189

Price

€ 15,00

S 00205

€ 20,50

124 mm

Order-No.

A 00190

Price

€ 15,00

S 00206

€ 21,00

142 mm

Order-No.

A 00191

Price

€ 17,00

S 00207

€ 23,00

29 mm 160 mm

Mat.

21371

Price

€ 13,00

S 20418

€ 19,00

178 mm

Order-No.

A 00129

Price

€ 25,00

S 00158

€ 32,00

196 mm

Order-No.

A 00130

Price

€ 27,00

S 00159

€ 34,00

214 mm

Order-No.

A 00131

Price

€ 28,00

S 00160

€ 35,00

232 mm

Order-No.

A 00132

Price

€ 30,00

S 00161

€ 37,00

250 mm

Order-No.

A 00133

Price

€ 31,00

S 00162

€ 38,00

268 mm

Order-No.

A 00134

Price

€ 33,00

S 00163

€ 40,00

Height Length

88 mm

Mat.

06775

Mat.

06776

106 mm

Order-No.

A 00193

Price

€ 16,00

S 00209

€ 24,00

124 mm

Order-No.

A 00194

Mat.

00210

142 mm

Order-No.

A 00195

Price

€ 18,00

S 00211

€ 25,00

160 mm

Order-No.

A 00196

Price

€ 23,00

S 00212

€ 29,00

49 mm 178 mm

Mat.

00146

Order-No.

A 00147

Price

€ 26,00

S 00175

€ 35,00

196 mm

Order-No.

A 00148

Price

€ 30,00

S 00176

€ 44,00

214 mm

Order-No.

A 00149

Price

€ 40,00

S 00178

€ 49,00

232 mm

Order-No.

A 00150

Price

€ 46,00

S 00179

€ 55,00

250 mm

Order-No.

A 00151

Price

€ 51,00

S 00180

€ 60,00


**Pc** Pipe clamps

**Material**

Stainless steel

**Quantity** 25 pieces **Article** 0012

Width	Clamping range	Mat.
	Ø 08 - 12 mm	<b>Order-No.</b> 00243 Price € 24,80
	Ø 10 - 16 mm	<b>Order-No.</b> 00244 Price € 25,30
	Ø 12 - 20 mm	<b>Order-No.</b> 00245 Price € 25,90
	Ø 16 - 25 mm	<b>Order-No.</b> 00246 Price € 27,50
	Ø 20 - 32 mm	<b>Order-No.</b> 00247 Price € 29,20
	Ø 25 - 40 mm	<b>Order-No.</b> 00248 Price € 30,80
	Ø 32 - 50 mm	<b>Order-No.</b> 00249 Price € 32,50
	Ø 40 - 60 mm	<b>Order-No.</b> 00250 Price € 34,10
	Ø 50 - 70 mm	<b>Order-No.</b> 00251 Price € 35,80
	Ø 60 - 80 mm	<b>Order-No.</b> 00252 Price € 37,40
9 mm	Ø 70 - 90 mm	<b>Order-No.</b> 00253 Price € 39,10
	Ø 80 - 100 mm	<b>Order-No.</b> 00254 Price € 40,70
	Ø 90 - 110 mm	<b>Order-No.</b> 00255 Price € 42,40
	Ø 100 - 120 mm	<b>Order-No.</b> 00256 Price € 44,00
	Ø 110 - 130 mm	<b>Order-No.</b> 00257 Price € 49,50
	Ø 130 - 150 mm	<b>Order-No.</b> 00258 Price € 57,20
	Ø 150 - 170 mm	<b>Order-No.</b> 00259 Price € 64,90
	Ø 170 - 190 mm	<b>Order-No.</b> 00260 Price € 72,60
	Ø 190 - 210 mm	<b>Order-No.</b> 00261 Price € 80,30
	Ø 210 - 230 mm	<b>Order-No.</b> 00262 Price € 88,00
	Ø 230 - 250 mm	<b>Order-No.</b> 00263 Price € 96,80
	Ø 250 - 270 mm	<b>Order-No.</b> 00264 Price € 105,60
	Ø 270 - 290 mm	<b>Order-No.</b> 32111 Price € 114,40
	Ø 290 - 310 mm	<b>Order-No.</b> 00265 Price € 123,20
	Ø 310 - 330 mm	<b>Order-No.</b> 32112 Price € 132,00



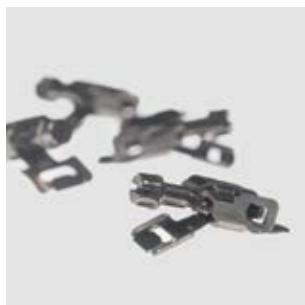
## Cable ties

Material	Quantity	Article
Chlorid free plastic, black	25 / 50 pieces	0011
<i>Width x Length</i>		
2,5 x 100 mm	25 pieces	50 pieces
2,5 x 202 mm	Order-No. 00266	Price € 2,80
4,8 x 370 mm	Order-No. 00267	Price € 7,00
9 x 430 mm	Order-No. 33844	Price € 9,40
9 x 812 mm	Order-No. 00268	Price € 16,30
9 x 1070 mm	Order-No. 00269	Price € 30,10
	Order-No. 00270	Price € 42,60



## Adhesive foam tape

Material	Quantity	Article
Polyethylene foam	1 piece	0021
<i>Width</i>		
9 mm, perforated	Application	<i>Length 10 m</i>
45 series	Order-No. 00089	Price € 14,60
19 mm, perforated	06/09 series	Order-No. 00090
38 mm	18 series	Order-No. 00092
58 mm	27 series	Order-No. 06858
78 mm	36 series	Order-No. 06859
		Length 50 m
		Price € 16,20
		Order-No. 06856
		Price € 17,90
		Order-No. 00098
		Price € 19,50
		Order-No. 00099
		Price € 24,90
		€ 86,40
		€ 95,10
		€ 107,00



## Locks for hanger straps

Material	Quantity	Article
Polyamide P / Stainless steel S	25 pieces	0014
<i>Application</i>		
For 8 mm smoothed polyamide band	Mat. P	Order-No. 00218
For 7 mm embossed stainless steel band	Mat. S	Price € 8,40
For 9 mm embossed stainless steel band	Mat. S	Order-No. 00213
	Mat. S	Price € 25,90
	Mat. S	Order-No. 00215
	Mat. S	Price € 28,50



## Hanger straps

Material	Quantity	Article
Stainless steel <b>S</b> / Polyamide <b>P</b>	1 piece	0013
<i>Width x Length</i>	<i>Design</i>	<i>Mat.</i>
7 mm x 25 m	Embossed	Order-No. <b>S</b> 00219 Price € 38,90
9 mm x 30 m	Embossed	Order-No. <b>S</b> 00221 Price € 41,00
8 mm x 50 m	Smooth	Order-No. <b>P</b> 00223 Price € 46,00



## Br Blind rivets

Material	Quantity	Article		
Aluminium <b>A</b> / Plastic <b>P</b> / Stainless steel <b>S</b>	500 pieces	0018		
<i>Width x Height</i>	<i>Application</i>	<i>Material sleeve</i>		
3,0 x 4,5 mm	For bondings	Plastic	Plastic	Order-No. <b>P</b> / <b>P</b> 00109 Price € 25,20
3,0 x 5,5 mm	For direct riveting	Plastic	Plastic	Order-No. <b>P</b> / <b>P</b> 00116 Price € 26,30
3,0 x 4,0 mm	For bondings	Aluminium	Stainless steel	Order-No. <b>A</b> / <b>S</b> 00106 Price € 35,70
3,2 x 7,9 mm	For direct riveting	Aluminium	Stainless steel	Order-No. <b>A</b> / <b>S</b> 00110 Price € 36,80



## Bar holders

Material	Quantity	Article
Aluminium <b>A</b> / Stainless steel <b>S</b>	10 pieces	0023
<i>Width x Length</i>	<i>Hole diameter</i>	<i>Mat.</i>
	Ø 8,5 mm	Order-No. <b>A</b> 00082 <b>S</b> 00077 Price € 13,10 € 18,50
	Ø 10,5 mm	Order-No. <b>A</b> 00083 <b>S</b> 00078 Price € 13,10 € 18,50
30 x 110 mm	Ø 12,5 mm	Order-No. <b>A</b> 00084 <b>S</b> 00079 Price € 13,10 € 18,50
	Ø 16,5 mm	Order-No. <b>A</b> 00085 <b>S</b> 00080 Price € 13,10 € 18,50
	Ø 20,5 mm	Order-No. <b>A</b> 00086 <b>S</b> 00081 Price € 13,10 € 18,50
30 x 120 mm	Open	Order-No. <b>A</b> 11114 <b>S</b> 11113 Price € 13,20 € 18,60



## Fastening cubes

Material	Quantity	Article
Aluminium <b>A</b> / Stainless steel <b>S</b>	20 pieces	0017
<i>Width x Height x Thickness</i>	<i>Application</i>	<i>Mat.</i>
15 x 15 x 15 mm	For pipe marking	Order-No. <b>A</b> 00117 <b>S</b> 00118 Price € 14,70 € 17,90



## Keyrings

Material	Quantity	Article
Steel nickel-plated <b>S</b> / Stainless steel <b>S</b>	20 pieces	0104
<i>Diameter</i>	<i>Mat.</i>	<i>Mat.</i>
Ø 20,4 mm	Order-No. <b>S</b> 18525 Price € 8,00	<b>S</b> 18524 € 12,00



## Steel band, PVC coated

Material	Quantity	Article
Galvanised steel <b>S</b> / Stainless steel <b>S</b>	10 pieces	0022
<i>Diameter x Length</i>	<i>Design</i>	
Ø 2 mm x 1 m	Stainless steel/plastic	Mat. 1 piece Mat. 10 pieces
Ø 2 mm x 125 m	Stainless steel/plastic	Order-No. <b>S</b> 14531 Price € 14,00
Ø 2 mm x 1 m	Steel/plastic	Order-No. <b>S</b> 14510 Price € 153,90
Ø 2 mm x 100 m	Steel/plastic	Order-No. <b>S</b> 14529 Price € 13,00
		Order-No. <b>S</b> 00087 Price € 127,50



## Seals

Material	Quantity	Article
Aluminium <b>A</b> / Stainless steel <b>S</b>	100 pieces	0019
<i>Application</i>		<i>Mat.</i>
For coated steel and coated stainless steel band	Order-No. <b>A</b> 14507 Price € 10,00	
For ball chains	Order-No. <b>S</b> 14508 Price € 30,00	



## Ball chain

Material	Quantity	Article
Stainless steel	1 / 10 pieces	0022
<i>Diameter x Length</i>	<i>1 piece</i>	<i>10 pieces</i>
Ø 2 mm x 15 cm (fasteners included)	Order-No. <b>S</b> 14526 Price € 10,00	
Ø 2 mm x 1 m	Order-No. <b>S</b> 14527 Price € 38,00	
Ø 2 mm x 50 m	Order-No. <b>S</b> 14528 Price € 135,00	



### Link chain

Material	Quantity	Article
Steel nickel-plated <b>S</b> / Stainless steel <b>S</b>	10 pieces	0022
<i>Diameter x Length</i>	<i>Mat.</i>	<i>Mat.</i>
Ø 8 mm x 1 m	Order-No. <b>S</b> 30233 Price € 26,00	Mat. <b>S</b> 30232 € 73,00



### Cartridge skeleton gun

Quantity	Article
1 piece	0091
<i>Application</i>	
For adhesives and sealants from the cartridge	Order-No. <b>05456</b> Price € 13,00



### Rivet gun

Quantity	Article
1 piece	0091
<i>Application</i>	
For all riveting work	Order-No. <b>06770</b> Price € 42,20



### Rivet removing gun

Quantity	Article
1 piece	0091
<i>Application</i>	
For loosening of riveted joints	Order-No. <b>05455</b> Price € 210,60



### Tool for tension / cutting

Quantity	Article
1 piece	0091

*Application*

For processing the polyamide hanger strap



### Glue

Quantity	Article
1 piece	0091

*Design*

Cartridge, 310 ml

*Application*

For the assembly of signs, transparent



### Cleaner sprays

Quantity	Article
1 piece	0091

*Design*

Spray can, 500 ml

*Application*

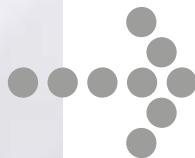
For degreasing metallic surfaces, glass and ceramics  
(check suitability before use)

Order-No.	
Price	47477 € 17,30

Order-No.	
Price	33847 € 12,50

Order-No.	
Price	33848 € 7,10

# Plans for Process Engineering



When it comes to plant labelling, our business approach also includes the documentation of our work and your plant. If desired, we can work with our in-house CAD department to prepare your identification System for Power Stations (KKS) according to the latest revision. Complete and current documentation give you the security you need for plant operation. By using a complete historical reproduction of changes in the plant as well as the documentation of the current situation, operational safety can be increased in accident and emergency situations.

Our employees will compare existing P&IDs with the current state (as-built-check) in the plant. This way, missing components can be supplemented, components that have been dismantled (e.g. as a result of renovation) can be removed and missing data can be gathered for your database. The documentation then depicts the actual condition of your plant and, using the revised P&IDs, we can assign both the quantity structures and texts (in coordination with the client) for your labelling. Our highly-qualified CAD department will then deliver the plans to you in file format; the desired attributes and digital information from AutoCAD P&ID are included.

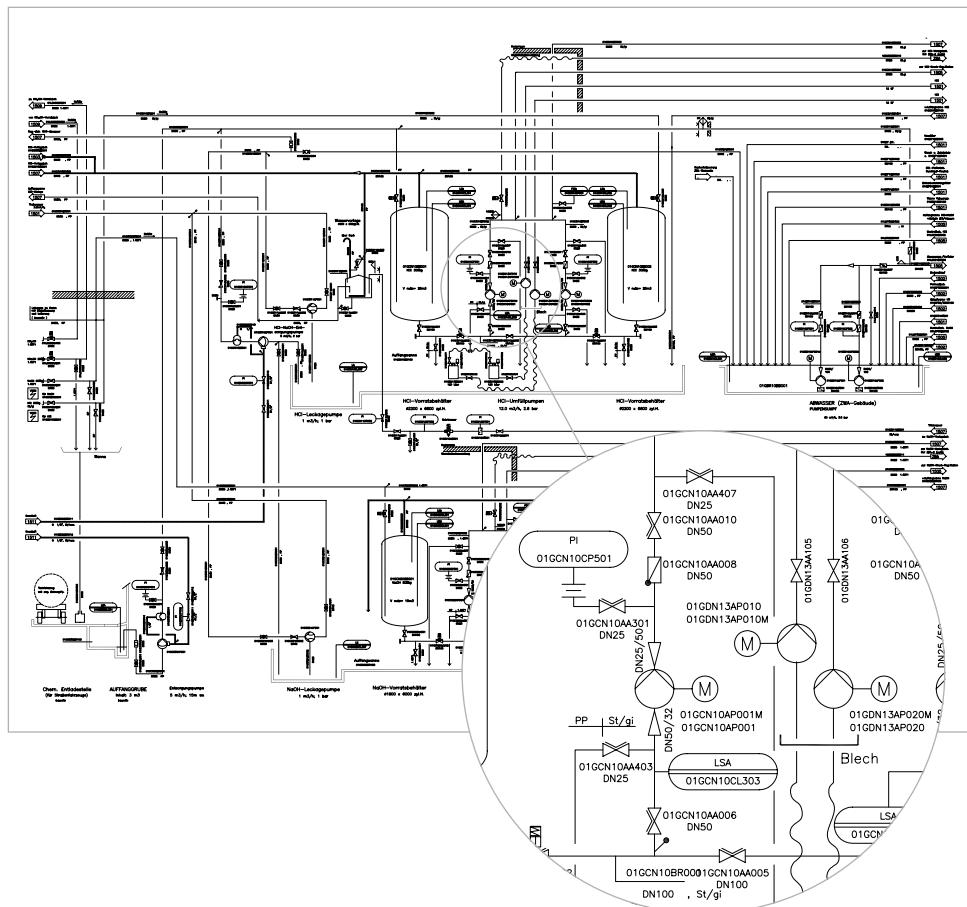
## We offer the following services:

- On-site inventory audit (as-built-check) including demand assessment
- P&ID preparation that considers the relevant standards and laws
- Determining quantity structures and batch sizes for the different sign variants
- Preparing specifications for the labelling
- Assigning and coding the equipment according to identification Systems for Power Stations (KKS) and plant labelling systems
- Preparing text and sign lists, including colour coding
- Plotting / printing the plans

In the area of plant labelling, we offer you the following forms of digital plans, among others:

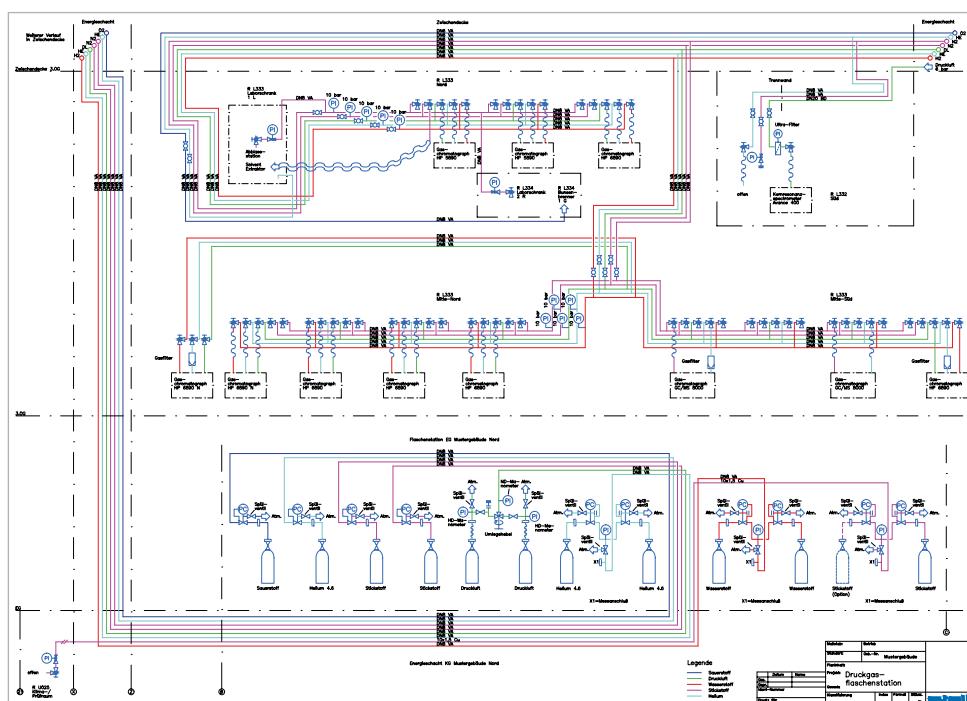
### Piping and Instrumentation Diagrams (in accordance with DIN EN ISO 10628)

The Piping and Instrumentation Diagram is used to display a plant's technical equipment. The plans show the structure and function of process plants and are part of the complete technical documentation that is necessary for the planning, construction, on-site installation, administration, commissioning, operation, maintenance and decommissioning of a plant. They also aid in the exchange of information between those involved in the development, construction, on-site installation, operation and maintenance of process plants.



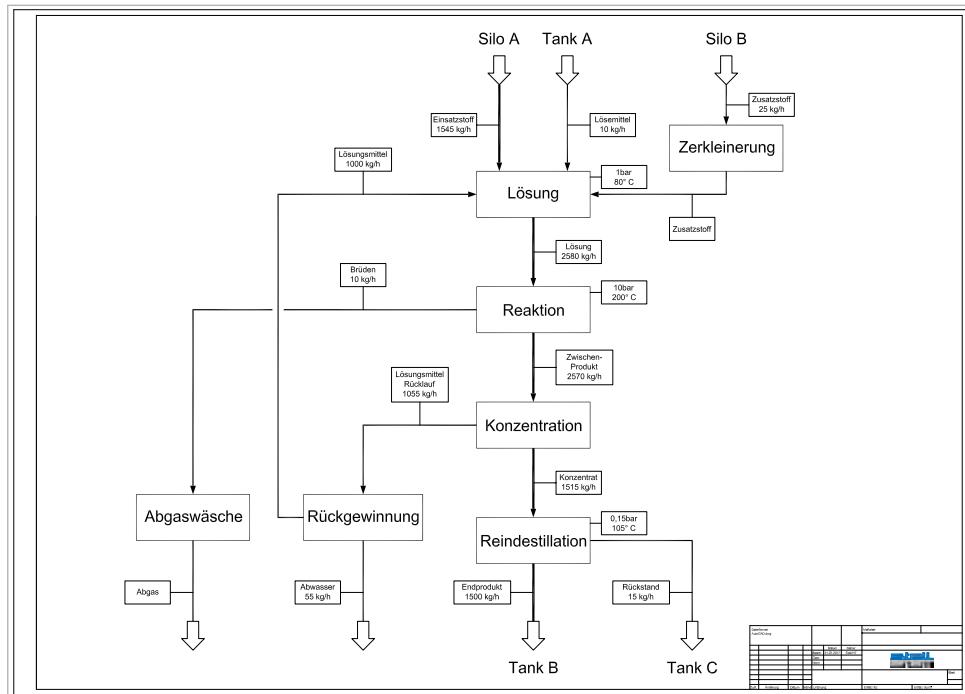
### Pipe layout diagram

A pipe layout diagram is a simplified representation of a plant that is not to scale. The diagram mainly marks the vertical pipes and all required safety and control technology fittings, as well as shut-off devices. The pipe layout diagram can serve as the basis for pipe dimensioning. In the planning phase, it can be somewhat of a common thread for the intended material flows.



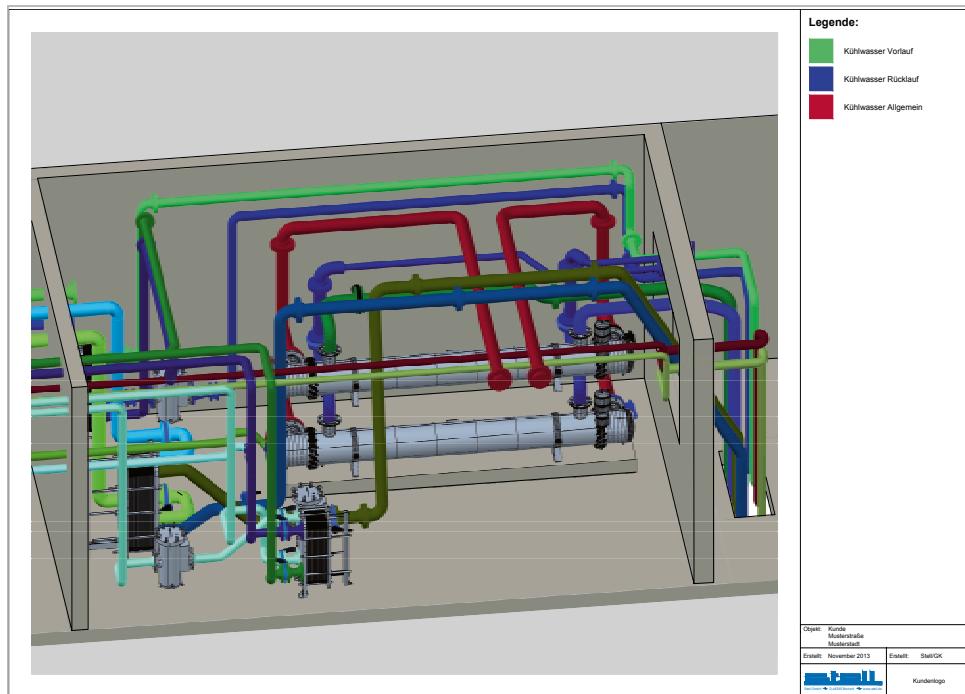
### Block diagrams

The diagrams graphically represent the effects between numerous interacting components. A process or process plant is thus depicted in simplified form with the aid of rectangles that are connected by flow lines (e.g., substances, energies, energy carriers).



### Pipe plans

Technical drawings for the planning and construction of pipes in large chemical industry plants. Pipe plans map the course of pipes and fittings as a top view in existing installation plans.



### Designs

Upon completion of our work, we give you a data medium that contains the digital documentation of the plans in the desired file format. You of course also have the option to use the printing and plotter service. This includes, amongst others, multi-colour printing, standard formats up to DIN A0, photoluminescent plots, and lamination in various sizes.

# Safety Identification



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# Introduction



Clear communication regarding hazards and rules of conduct serves as the basis for a safe working environment. Chemical parks, power stations, production plants and business premises must therefore be equipped with systematic labelling for emergency situations and day-to-day operations alike. Safety identification includes labelling of escape routes and fire protection equipment, identifying hazardous areas and how to conduct oneself in them, marking obstacles and potential hazards and putting up escape and rescue plans.

To successfully implement a safe working environment, the right planning, labelling selection and proper on-site installation is key. We offer all of this as a complete package. In our work, we focus on transmitting clear-cut messages. That's why dimensions, shape, colour, design, distance of observation and luminescence of the labels are based on prescribed standards and decades of experience. In collaborating with you, we aim to provide a sustainable solution for reliable safety identification, thus avoiding accidents, injuries and damage. Thanks to our in-house production, we can meet your requirements; what's more is that if you like, we can efficiently carry out (almost) all the relevant work for you on your premises.

## **Compulsory labelling and its implementation – regulations, standards and laws**

Occupational safety identification is globally ubiquitous, compulsory by law, and in Germany derived from the German Arbeitsschutzgesetz ("Occupational Health and Safety Act"). In the Arbeitsstättenverordnung ("Workplaces Ordinance"), labelling with signs is specifically listed as an integral part of the legal measures. The technical rule for workplaces ASR A1.3 – "Safety and health protection labelling" – takes this measure and specifies its exact implementation in detail. This technical rule defines how our signs look in the plant, in the building or on the premises, as well as how to install them to ensure clear recognisability for all employees and visitors.

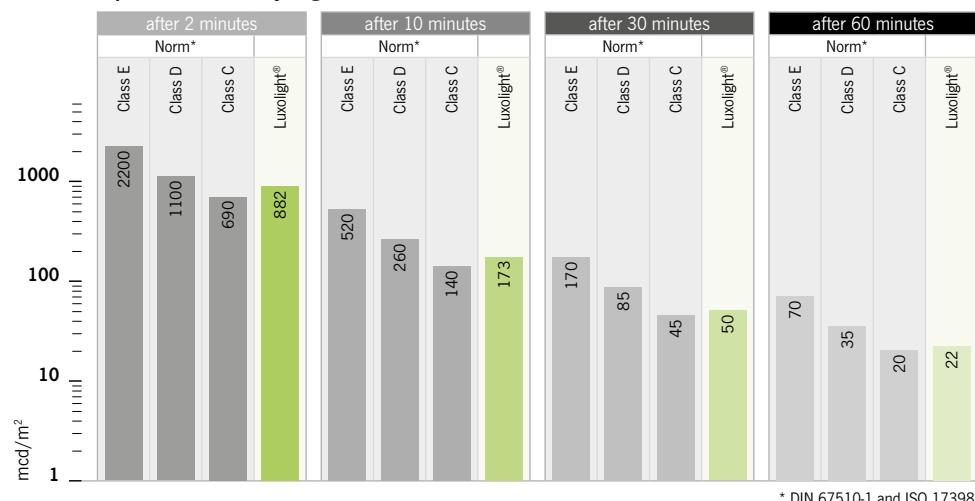
There are also international regulations and standards for safety identification. The current safety signs in Germany have already been adapted to the international standard ISO 7010. For this reason, we have grouped our signs for you in the following chapter and differentiated between the legally required signs from ASR A1.3 and the meaningful signs of the respective standard. If you would like qualified consultation, please do not hesitate to call us.

### Luxolight®

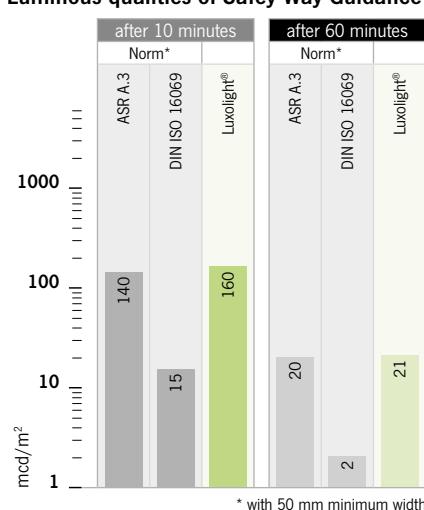
Luxolight® photoluminescent labelling is particularly relevant to safety because even in the event of a power failure or smoke development, it ensures reliable orientation. Luxolight® is a registered trade mark and represents of all the photoluminescent products we offer. They meet high quality standards and promote safety in your working environment. Our Luxolight® products absorb the energy of UV rays from ambient light, store it and emit it again in the dark as yellow-green light. Depending on the ambient environment, different afterglow intensities may be necessary; we can provide you with reliable advice here.

As required by workplace regulation ASR A2.3 "Escape routes and emergency exits", all standardised Luxolight® products comply with Class C classification by the manufacturer in accordance with DIN 67510. The following graphics show Luxolight® lighting quality in comparison with the luminance classes and the specifications of workplace regulation ASR A2.3 and ISO 16069.

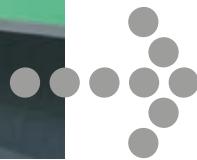
#### Luminous qualities of Safety Signs



#### Luminous qualities of Safety Way Guidance Systems



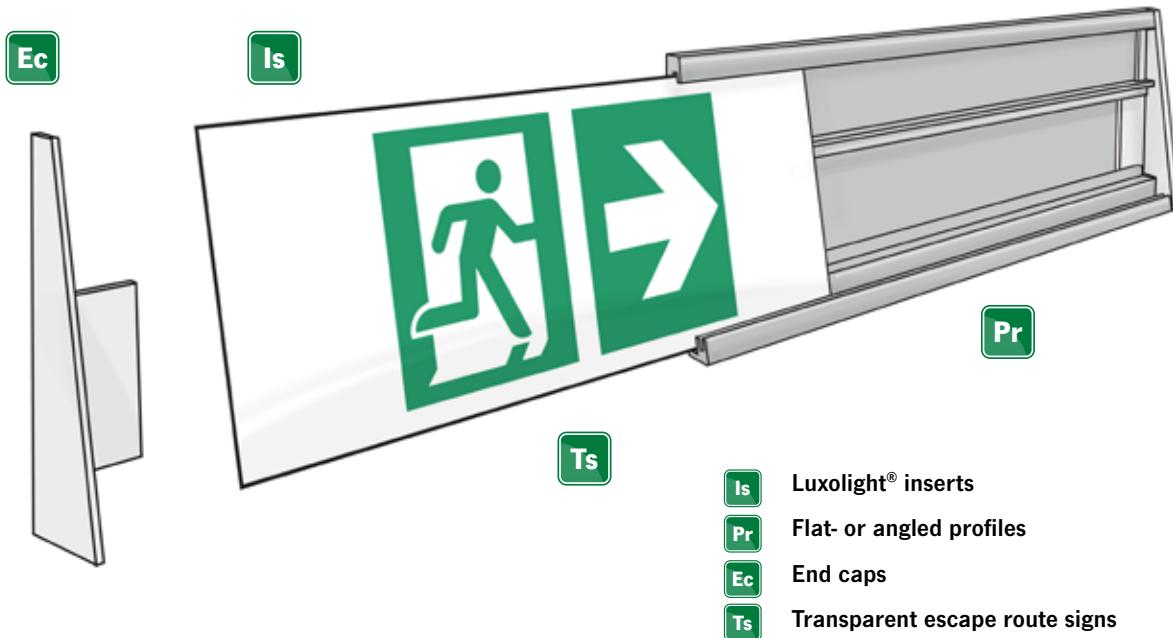
# Safety Way Guidance System



An installed safety way guidance system serves as an important protective measure should evacuation be necessary. As part of the safety concept or in consequence of a risk assessment, workplaces and places with increased risk potential must be equipped for emergency with an optical safety way guidance system that directs those affected to a safe environment or meeting points.

A safety way guidance system enables those affected to leave the premises safely and quickly – even in the event of heavy smoke and power failure. For the safety way guidance system we offer different photoluminescence qualities and installation heights that match the

on-site conditions. Thanks to the optical markings and direction indicators, all of these solutions provide for a seamless and reliable escape route. Nevertheless, they are not a substitute for the required rescue symbols that are mounted up above.



#### Components of the Safety Way Guidance System

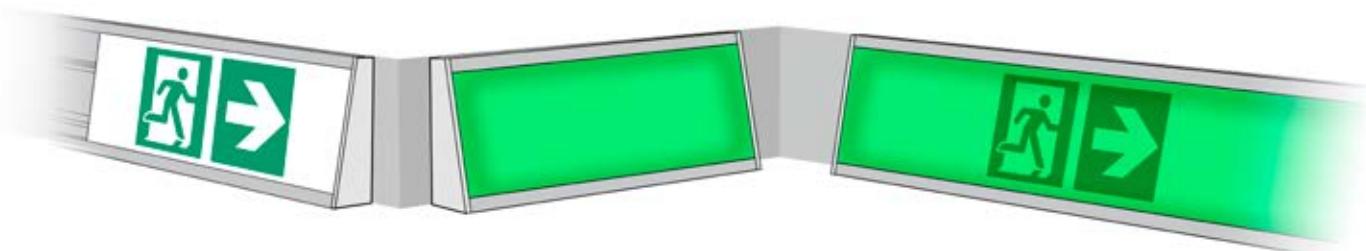
The Safety Way Guidance System consists of the inserts (**Is**), the profile (**Pr**), the transparent safety sign (**Ts**) and end caps (**Ec**). We will gladly assist you determining the right components and materials that suit your demands.

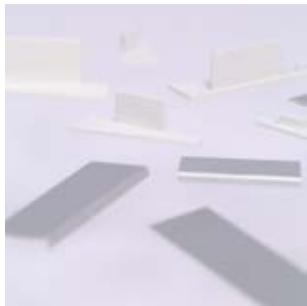
Depending on the on-site conditions, we offer our safety guidance system in two heights, two materials and two design variants.

The angled profile version allows the safety guidance system to be mounted directly over the skirting board. The flat profile is suitable for direct installation on the wall or a surface, even in a slightly higher position.

Both versions are available in heights of 60 mm and 80 mm, whereby the angled profile is only available in aluminum. We offer the flat profile in aluminum and plastic.

As every application is different and customised solutions are the best fit, we produce or slide-in system to your requirements. Please contact us and we will find a suitable solution.





### Ec End caps

**Material**  
Plastic **P** / Aluminium, anodised **A**

**Quantity** 20 pieces **Article** 0026

**ASR A3.4/3**

Width x Length	Application	
18 x 54 mm	For flat profile 60 mm	
18 x 74 mm	For flat profile 80 mm	
12 x 60 mm	For angled profile 60 mm, left	
12 x 60 mm	For angled profile 60 mm, right	
12 x 80 mm	For angled profile 80 mm, left	
12 x 80 mm	For angled profile 80 mm, right	

Order-No.	Mat.
<b>A 05036</b> Price	€ 21,50
<b>A 05037</b> Price	€ 30,30
<b>P 05040</b> Price	€ 32,20
<b>P 05041</b> Price	€ 32,20
<b>P 05042</b> Price	€ 43,20
<b>P 05043</b> Price	€ 43,20



### Ts Transparent escape route signs

**Material**  
Foil

**Quantity** 10 pieces **Article** 0069

**ASR A1.3**

Width x Height	MES001
96 x 48 mm	<b>00300</b> Price € 22,20
134 x 67 mm	<b>06844</b> Price € 25,50



Width x Height	MES002
96 x 48 mm	<b>00301</b> Price € 22,20
134 x 67 mm	<b>06847</b> Price € 25,50





### Exit door handle marking

Material	Luminance	Quantity	Article
Foil	Luxolight®	1 piece	0037
<i>Width x Height</i>			<i>Design</i>
80 x 200 mm	With direction arrow left	Order-No. Price	00336 € 5,70
80 x 200 mm	With direction arrow right	Order-No. Price	00337 € 5,70



### Floor marking points, self-adhesive

Material	Luminance	Quantity	Article
Foil	Luxolight®	10 piece	0031
<i>Diameter</i>			<i>Design</i>
Ø 100 mm	With direction arrow	Order-No. Price	05061 € 25,00
Ø 200 mm	With direction arrow	Order-No. Price	05062 € 39,00
Ø 100 mm	Without direction arrow	Order-No. Price	05065 € 23,00
Ø 200 mm	Without direction arrow	Order-No. Price	05066 € 43,00

# Safety Signs



Safety signs are standardised in their message, graphical symbol and safety colours in order to ensure international understanding. Lawful safety identification includes rescue, fire protection, prohibitory, mandatory action and warning symbols.

The exact requirements for your working environment are already determined when the escape and rescue plans are drawn up during the workplace's planning phase; they are specified more precisely over the course of regular risk assessments. Our rescue and fire protection symbols are available in standard form or with a photoluminescent background. This is not the case for prohibitory, mandatory action and warning symbols; they are therefore delivered in the standard form on a white background.





## Escape route signs

### Material

PVC **P** / Foil **F**

### Luminance

No  / Luxolight® 

### Quantity

1 piece

### Article

0040

### ISO 7010



### Width x Height Mat.

300 x 150 mm	Order-No. <b>P</b>	24005	23975
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	24006	23976
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00

300 x 150 mm	Order-No. <b>P</b>	24009	23979
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	24010	23980
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00

300 x 150 mm	Order-No. <b>P</b>	24007	23977
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	24008	23978
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00



### Width x Height Mat.

300 x 150 mm	Order-No. <b>P</b>	24003	23973
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	24004	23974
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00

300 x 150 mm	Order-No. <b>P</b>	24001	23971
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	24002	23972
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00

300 x 150 mm	Order-No. <b>P</b>	23985	23995
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	23986	23996
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00



### Width x Height Mat.

300 x 150 mm	Order-No. <b>P</b>	23989	23999
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	23990	24000
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00

300 x 150 mm	Order-No. <b>P</b>	23987	23997
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	23988	23998
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00

300 x 150 mm	Order-No. <b>P</b>	23983	23993
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	23984	23994
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00



### Width x Height Mat.

300 x 150 mm	Order-No. <b>P</b>	23981	23991
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	23982	23992
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00

300 x 150 mm	Order-No. <b>P</b>	23957	23967
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	23958	23968
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00

300 x 150 mm	Order-No. <b>P</b>	23953	23963
Price	<b>P</b>	€ 3,80	€ 10,70
	<b>F</b>	€ 3,60	€ 10,40
400 x 200 mm	Order-No. <b>P</b>	23954	23964
Price	<b>P</b>	€ 6,40	€ 13,40
	<b>F</b>	€ 6,10	€ 13,00



## Escape route, emergency equipment and safety action signs

Material	Luminance		Quantity	Article	
PVC P / Foil F	No	Luxolight®	1 piece	0040	
<b>ISO 7010</b>					
<i>Width x Height</i>	<i>Mat.</i>				
150 x 150 mm	Order-No. P	00358 00360	00362 00364	00374 00376	
	Price	€ 2,50	€ 6,10	€ 2,50	€ 6,10
	Order-No. F	10084 10091	10093 10095	10107 10111	
	Price	€ 2,30	€ 5,90	€ 2,30	€ 5,90
200 x 200 mm	Order-No. P	00359 00361	00363 00365	00375 00377	
	Price	€ 3,00	€ 8,00	€ 3,00	€ 8,00
	Order-No. F	10090 10092	10094 10096	10108 10112	
	Price	€ 2,70	€ 7,70	€ 2,70	€ 7,70
<i>Width x Height</i>	<i>Mat.</i>				
150 x 150 mm	Order-No. P	00386 00388	00390 00393	00396 00398	
	Price	€ 2,50	€ 6,10	€ 2,50	€ 6,10
	Order-No. F	10123 10125	10128 10131	10134 10136	
	Price	€ 2,30	€ 5,90	€ 2,30	€ 5,90
200 x 200 mm	Order-No. P	00387 00389	00391 00394	00397 00399	
	Price	€ 3,00	€ 8,00	€ 3,00	€ 8,00
	Order-No. F	10124 10126	10129 10132	10135 10137	
	Price	€ 2,70	€ 7,70	€ 2,70	€ 7,70
400 x 400 mm	Order-No. P	—	00392 00395	—	
	Price	—	€ 9,70	€ 27,70	—
	Order-No. F	—	10130 10133	—	
	Price	—	€ 9,20	€ 27,50	—
<i>Width x Height</i>	<i>Mat.</i>				
150 x 150 mm	Order-No. P	00408 00410	00412 00414	00416 00418	
	Price	€ 2,50	€ 6,10	€ 2,50	€ 6,10
	Order-No. F	10146 10148	10150 10152	10154 10157	
	Price	€ 2,30	€ 5,90	€ 2,30	€ 5,90
200 x 200 mm	Order-No. P	00409 00411	00413 00415	00417 00419	
	Price	€ 3,00	€ 8,00	€ 3,00	€ 8,00
	Order-No. F	10147 10149	10151 10153	10155 10158	
	Price	€ 2,70	€ 7,70	€ 2,70	€ 7,70
<i>Width x Height</i>	<i>Mat.</i>				
150 x 150 mm	Order-No. P	00424 00426	00428 00430	00432 00434	
	Price	€ 2,50	€ 6,10	€ 2,50	€ 6,10
	Order-No. F	10163 10167	10169 10171	10173 10175	
	Price	€ 2,30	€ 5,90	€ 2,30	€ 5,90
200 x 200 mm	Order-No. P	00425 00427	00429 00431	00433 00435	
	Price	€ 3,00	€ 8,00	€ 3,00	€ 8,00
	Order-No. F	10166 10168	10170 10172	10174 10176	
	Price	€ 2,70	€ 7,70	€ 2,70	€ 7,70

					
<i>Width x Height</i>	<i>Mat.</i>	<b>E020</b>	<b>E021</b>	<b>E022</b>	<b>E023</b>
150 x 150 mm	Order-No. <b>P</b> Price	<b>37449</b> <b>37451</b> € 2,50 € 6,10	<b>37457</b> <b>37459</b> € 2,50 € 6,10	<b>37465</b> <b>37467</b> € 2,50 € 6,10	<b>37473</b> <b>37475</b> € 2,50 € 6,10
	Order-No. <b>F</b> Price	<b>37445</b> <b>37447</b> € 2,30 € 5,90	<b>37453</b> <b>37455</b> € 2,30 € 5,90	<b>37461</b> <b>37463</b> € 2,30 € 5,90	<b>37469</b> <b>37471</b> € 2,30 € 5,90
200 x 200 mm	Order-No. <b>P</b> Price	<b>37450</b> <b>37452</b> € 3,00 € 8,00	<b>37458</b> <b>37460</b> € 3,00 € 8,00	<b>37466</b> <b>37468</b> € 3,00 € 8,00	<b>37474</b> <b>37476</b> € 3,00 € 8,00
	Order-No. <b>F</b> Price	<b>37446</b> <b>37448</b> € 2,70 € 7,70	<b>37454</b> <b>37456</b> € 2,70 € 7,70	<b>37462</b> <b>37464</b> € 2,70 € 7,70	<b>37470</b> <b>37472</b> € 2,70 € 7,70
		<b>E024</b>			
		<b>37481</b> <b>37483</b> € 2,50 € 6,10	<b>37477</b> <b>37479</b> € 2,30 € 5,90	<b>37482</b> <b>37484</b> € 3,00 € 8,00	<b>37478</b> <b>37480</b> € 2,70 € 7,70
					
<i>Width x Height</i>	<i>Mat.</i>	<b>E025</b>	<b>E057</b>	<b>E058</b>	<b>E059</b>
150 x 150 mm	Order-No. <b>P</b> Price	<b>37489</b> <b>37491</b> € 2,50 € 6,10	<b>37497</b> <b>37499</b> € 2,50 € 6,10	<b>37505</b> <b>37507</b> € 2,50 € 6,10	<b>37513</b> <b>37515</b> € 2,50 € 6,10
	Order-No. <b>F</b> Price	<b>37485</b> <b>37487</b> € 2,30 € 5,90	<b>37493</b> <b>37495</b> € 2,30 € 5,90	<b>37501</b> <b>37503</b> € 2,30 € 5,90	<b>37509</b> <b>37511</b> € 2,30 € 5,90
200 x 200 mm	Order-No. <b>P</b> Price	<b>37490</b> <b>37492</b> € 3,00 € 8,00	<b>37498</b> <b>37500</b> € 3,00 € 8,00	<b>37506</b> <b>37508</b> € 3,00 € 8,00	<b>37514</b> <b>37516</b> € 3,00 € 8,00
	Order-No. <b>F</b> Price	<b>37486</b> <b>37488</b> € 2,70 € 7,70	<b>37494</b> <b>37496</b> € 2,70 € 7,70	<b>37502</b> <b>37504</b> € 2,70 € 7,70	<b>37510</b> <b>37512</b> € 2,70 € 7,70
		<b>E060</b>			
		<b>37521</b> <b>37523</b> € 2,50 € 6,10	<b>37517</b> <b>37519</b> € 2,30 € 5,90	<b>37522</b> <b>37524</b> € 3,00 € 8,00	<b>37518</b> <b>37520</b> € 2,70 € 7,70



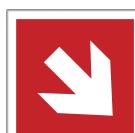
### Fire fighting equipment signs

Material	Luminance		Quantity	Article
PVC <b>P</b> / Foil <b>F</b>	No	Luxolight®	1 piece	0046

**ISO 7010**

Width x Height Mat.

150 x 150 mm	Order-No. <b>P</b>	02577	02579	05025	05027
Price		€ 2,50	€ 6,10	€ 2,50	€ 6,10
200 x 200 mm	Order-No. <b>F</b>	10178	10180	10182	10184
Price		€ 2,30	€ 5,90	€ 2,30	€ 5,90
150 x 150 mm	Order-No. <b>P</b>	02578	02580	05026	05028
Price		€ 3,00	€ 8,00	€ 3,00	€ 8,00
200 x 200 mm	Order-No. <b>F</b>	10179	10181	10183	10185
Price		€ 2,70	€ 7,70	€ 2,70	€ 7,70



Quantity

1 piece

Article

0046

Width x Height Mat.

150 x 150 mm	Order-No. <b>P</b>	02593	02595	02597	02599
Price		€ 2,50	€ 6,10	€ 2,50	€ 6,10
200 x 200 mm	Order-No. <b>F</b>	10199	10201	10204	10206
Price		€ 2,30	€ 5,90	€ 2,30	€ 5,90
150 x 150 mm	Order-No. <b>P</b>	02594	02596	02598	02600
Price		€ 3,00	€ 8,00	€ 3,00	€ 8,00
200 x 200 mm	Order-No. <b>F</b>	10200	10202	10205	10207
Price		€ 2,70	€ 7,70	€ 2,70	€ 7,70



F004

F005

F006

F007

F008

Quantity

1 piece

Article

0046





## Prohibition Signs

Material	Luminance		Quantity	Article		
PVC	No <input type="checkbox"/>		1 piece	0049		
ISO 7010						
<i>Width x Height</i>						
150 x 150 mm Order-No. <b>P001</b>						
Price		02756	€ 2,60			
200 x 200 mm Order-No. <b>P002</b>						
Price		02758	€ 2,60			
150 x 150 mm Order-No. <b>P003</b>						
Price		02760	€ 2,60			
200 x 200 mm Order-No. <b>P004</b>						
Price		02762	€ 2,60			
150 x 150 mm Order-No. <b>P005</b>						
Price		02764	€ 2,60			
200 x 200 mm Order-No. <b>P006</b>						
Price		02766	€ 2,60			
150 x 150 mm Order-No. <b>P007</b>						
Price		02768	€ 2,60			
200 x 200 mm Order-No. <b>P008</b>						
Price		02770	€ 2,60			
150 x 150 mm Order-No. <b>P009</b>						
Price		02772	€ 2,60			
200 x 200 mm Order-No. <b>P010</b>						
Price		02774	€ 2,60			
150 x 150 mm Order-No. <b>P011</b>						
Price		02776	€ 3,10			
200 x 200 mm Order-No. <b>P012</b>						
Price		02778	€ 2,60			
150 x 150 mm Order-No. <b>P013</b>						
Price		02780	€ 2,60			
200 x 200 mm Order-No. <b>P014</b>						
Price		02781	€ 3,10			
150 x 150 mm Order-No. <b>P015</b>						
Price		02782	€ 2,60			
200 x 200 mm Order-No. <b>P016</b>						
Price		02783	€ 3,10			
150 x 150 mm Order-No. <b>P017</b>						
Price		02784	€ 2,60			
200 x 200 mm Order-No. <b>P018</b>						
Price		02776	€ 2,60			
150 x 150 mm Order-No. <b>P019</b>						
Price		02788	€ 2,60			
200 x 200 mm Order-No. <b>P020</b>						
Price		02790	€ 2,60			
150 x 150 mm Order-No. <b>P021</b>						
Price		02792	€ 2,60			
200 x 200 mm Order-No. <b>P022</b>						
Price		02794	€ 2,60			
150 x 150 mm Order-No. <b>P023</b>						
Price		02796	€ 2,60			
200 x 200 mm Order-No. <b>P024</b>						
Price		02798	€ 2,60			
150 x 150 mm Order-No. <b>P025</b>						
Price		02800	€ 2,60			
200 x 200 mm Order-No. <b>P026</b>						
Price		02802	€ 2,60			
150 x 150 mm Order-No. <b>P027</b>						
Price		02804	€ 2,60			
200 x 200 mm Order-No. <b>P028</b>						
Price		02805	€ 3,10			



Width x Height		P028	P029	P030	P031	P032
150 x 150 mm	Order-No.	<b>02806</b>	<b>02808</b>	<b>02810</b>	<b>02812</b>	<b>02814</b>
Price		€ 2,60	€ 2,60	€ 2,60	€ 2,60	€ 2,60

200 x 200 mm	Order-No.	<b>02807</b>	<b>02809</b>	<b>02811</b>	<b>02813</b>	<b>02815</b>
Price		€ 3,10	€ 3,10	€ 3,10	€ 3,10	€ 3,10



Width x Height		P033	P034	P035	P039	P041
150 x 150 mm	Order-No.	<b>02816</b>	<b>02818</b>	<b>37543</b>	<b>37545</b>	<b>37547</b>
Price		€ 2,60	€ 2,60	€ 2,60	€ 2,60	€ 2,60

200 x 200 mm	Order-No.	<b>02817</b>	<b>02819</b>	<b>37544</b>	<b>37546</b>	<b>37548</b>
Price		€ 3,10	€ 3,10	€ 3,10	€ 3,10	€ 3,10



Width x Height		P042	P043	P044	P049	P052
150 x 150 mm	Order-No.	<b>37549</b>	<b>37551</b>	<b>37553</b>	<b>37555</b>	<b>37557</b>
Price		€ 2,60	€ 2,60	€ 2,60	€ 2,60	€ 2,60

200 x 200 mm	Order-No.	<b>37550</b>	<b>37552</b>	<b>37554</b>	<b>37556</b>	<b>37558</b>
Price		€ 3,10	€ 3,10	€ 3,10	€ 3,10	€ 3,10



WSP001		D-P006	D-P016	D-P022	
02826	€ 2,60	02820	€ 2,60	02822	€ 2,60
02827	€ 3,10	02821	€ 3,10	02823	€ 3,10



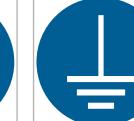
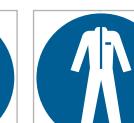
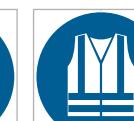
## Warning signs

Material	Luminance	Quantity	Article
PVC	No <input type="checkbox"/>	1 piece	0051
<b>ISO 7010</b>			
Width x Height			
150 x 150 mm	<b>Order-No.</b> 02940 Price € 2,60	<b>W001</b> 02942 € 2,60	<b>W002</b> 02944 € 2,60
200 x 200 mm	<b>Order-No.</b> 02941 Price € 3,10	<b>W003</b> 02945 € 3,10	<b>W004</b> 02946 € 2,60
			<b>W005</b> 02948 € 2,60
			<b>W006</b> 02949 € 3,10
<b>Width x Height</b>			
150 x 150 mm	<b>Order-No.</b> 02950 Price € 2,60	<b>W007</b> 02952 € 2,60	<b>W008</b> 02954 € 2,60
200 x 200 mm	<b>Order-No.</b> 02951 Price € 3,10	<b>W009</b> 02955 € 3,10	<b>W010</b> 02956 € 2,60
			<b>W011</b> 02958 € 3,10
<b>Width x Height</b>			
150 x 150 mm	<b>Order-No.</b> 02960 Price € 2,60	<b>W012</b> 02962 € 2,60	<b>W013</b> 02964 € 2,60
200 x 200 mm	<b>Order-No.</b> 02961 Price € 3,10	<b>W014</b> 02965 € 3,10	<b>W015</b> 02966 € 2,60
			<b>W016</b> 02968 € 3,10
<b>Width x Height</b>			
150 x 150 mm	<b>Order-No.</b> 02970 Price € 2,60	<b>W017</b> 02972 € 2,60	<b>W018</b> 02974 € 2,60
200 x 200 mm	<b>Order-No.</b> 02971 Price € 3,10	<b>W019</b> 02975 € 3,10	<b>W020</b> 02976 € 2,60
			<b>W021</b> 02978 € 3,10
<b>Width x Height</b>			
150 x 150 mm	<b>Order-No.</b> 02980 Price € 2,60	<b>D-W021</b> 02998 € 2,60	<b>W022</b> 02982 € 2,60
200 x 200 mm	<b>Order-No.</b> 02981 Price € 3,10	<b>D-W022</b> 02999 € 3,10	<b>W023</b> 03000 € 2,60
			<b>W024</b> 03001 € 3,10
			<b>W025</b> 02984 € 2,60
			<b>W026</b> 02985 € 3,10

				
<i>Width x Height</i>				
150 x 150 mm	<b>Order-No.</b>	<b>02986</b>	<b>02988</b>	<b>02990</b>
	Price	€ 2,60	€ 2,60	€ 2,60
200 x 200 mm	<b>Order-No.</b>	<b>02987</b>	<b>02989</b>	<b>02991</b>
	Price	€ 3,10	€ 3,10	€ 3,10
<i>Width x Height</i>				
150 x 150 mm	<b>Order-No.</b>	<b>02996</b>	<b>37559</b>	<b>37561</b>
	Price	€ 2,60	€ 2,60	€ 2,60
200 x 200 mm	<b>Order-No.</b>	<b>02997</b>	<b>37560</b>	<b>37562</b>
	Price	€ 3,10	€ 3,10	€ 3,10
<i>Width x Height</i>				
150 x 150 mm	<b>Order-No.</b>	<b>37567</b>	<b>37569</b>	<b>37571</b>
	Price	€ 2,60	€ 2,60	€ 2,60
200 x 200 mm	<b>Order-No.</b>	<b>37568</b>	<b>37570</b>	<b>37572</b>
	Price	€ 3,10	€ 3,10	€ 3,10



## Mandatory action signs

Material	Luminance	Quantity	Article
PVC	No <input type="checkbox"/>	1 piece	0053
<b>ISO 7010</b>			
Width x Height			
150 x 150 mm	Order-No.	03124	03126
	Price	€ 2,60	€ 2,60
200 x 200 mm	Order-No.	03125	03127
	Price	€ 3,10	€ 3,10
			
M001		M002	
			
M003		M004	
			
M005			
			
M006		M007	
			
M008		M009	
			
M010			
			
M011		M012	
			
M013		M014	
			
M015			
			
M016		M017	
			
M018		M019	
			
M020			
			
M021		M022	
			
M023		M024	
			
M025			
			
M026		M027	
			
M028		M029	
			
M030			



Width x Height

150 x 150 mm	Order-No.
Price	<b>03174</b> € 2,60
Price	<b>03175</b> € 3,10



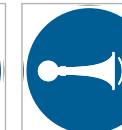
M027

150 x 150 mm	Order-No.
Price	<b>37575</b> € 2,60
Price	<b>37576</b> € 3,10



M028

150 x 150 mm	Order-No.
Price	<b>37591</b> € 2,60
Price	<b>37592</b> € 3,10



M029

150 x 150 mm	Order-No.
Price	<b>37593</b> € 2,60
Price	<b>37594</b> € 3,10



M030

150 x 150 mm	Order-No.
Price	<b>37577</b> € 2,60
Price	<b>37578</b> € 3,10



Width x Height

150 x 150 mm	Order-No.
Price	<b>37579</b> € 2,60
Price	<b>37580</b> € 3,10



M032

150 x 150 mm	Order-No.
Price	<b>37581</b> € 2,60
Price	<b>37582</b> € 3,10



M046

150 x 150 mm	Order-No.
Price	<b>37583</b> € 2,60
Price	<b>37584</b> € 3,10



M047

150 x 150 mm	Order-No.
Price	<b>37585</b> € 2,60
Price	<b>37586</b> € 3,10



M048

150 x 150 mm	Order-No.
Price	<b>37587</b> € 2,60
Price	<b>37588</b> € 3,10



Width x Height

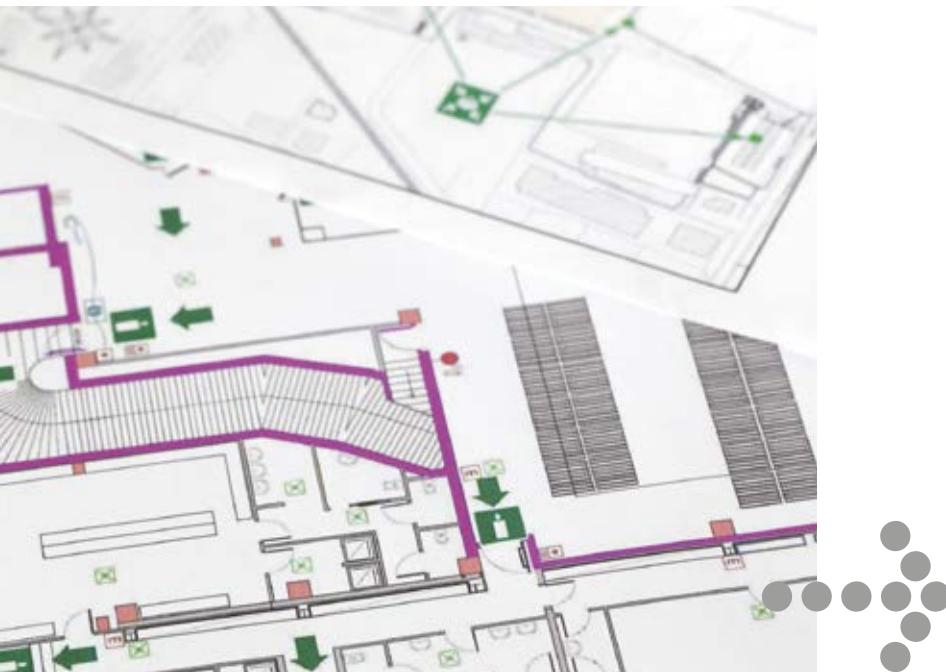
150 x 150 mm	Order-No.
Price	<b>37589</b> € 2,60
Price	<b>37590</b> € 3,10



WSM001

150 x 150 mm	Order-No.
Price	<b>03180</b> € 2,60
Price	<b>03181</b> € 3,10

# Plans for Safety Identification



The displayed information for employees and visitors in buildings is an integral part of safety identification. For this reason, our qualified inhouse CAD department specialises in preventive fire protection. We prepare, deliver and install the necessary plans for you in compliance with all relevant laws, regulations, guidelines and standards.

A professional on-site audit is the basis for all plans; a regular inventory check also ensures the safety of your property. According to the technical rule ASR A2.3 „Escape and rescue routes and emergency exits, escape route plans“, all put up plans must always be up-to-date. Any structural or fire protection changes must result in an adjustment of your plans.

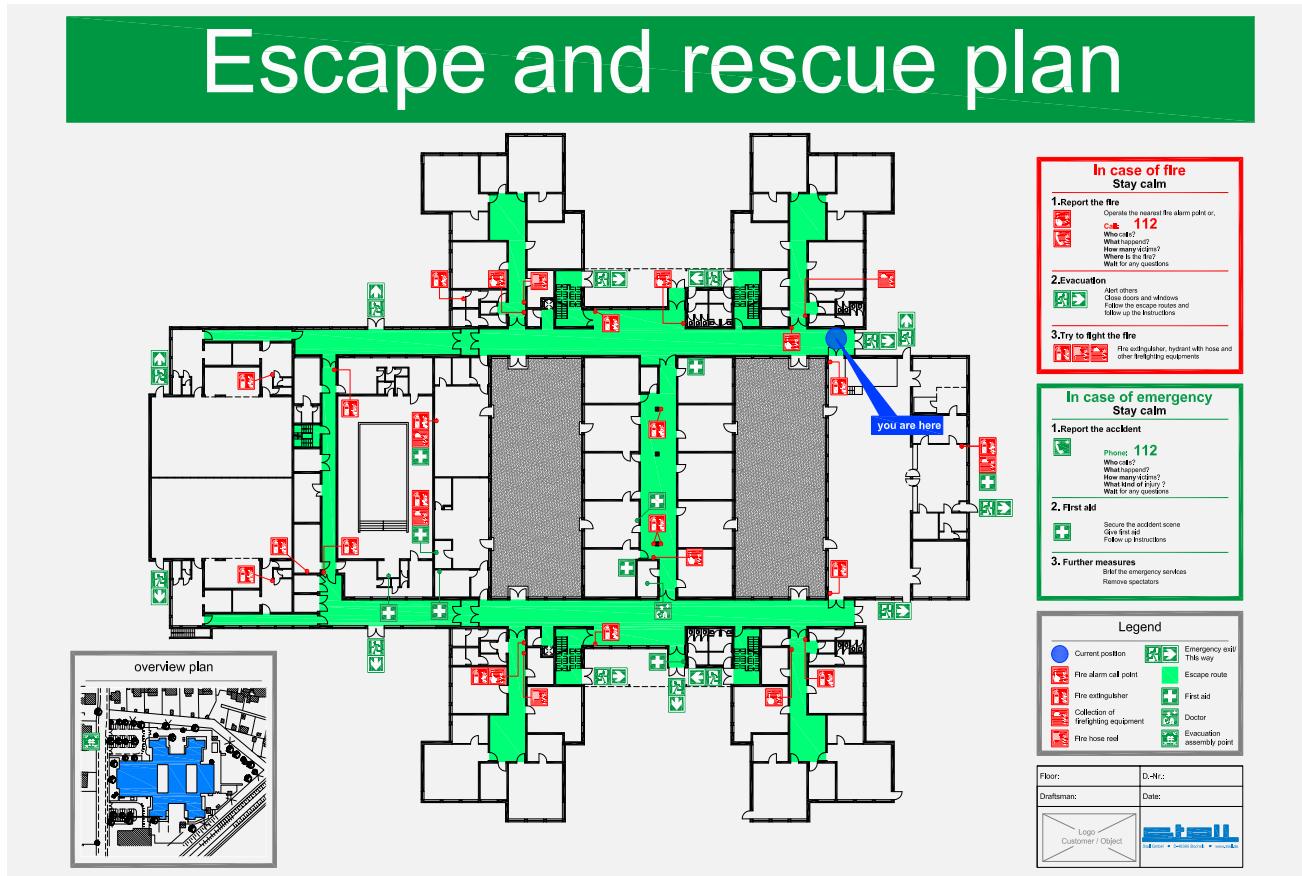
We will perform this review for you. If available, the existing plans establish the starting position. If you do not have a floor plan, we will also draw up new plans – which includes surveying the on-site layout with a handheld laser device – as part of our service. Within the context of the property inspection, an expert conducts a variance analysis of your situation. Amongst other things, this analysis takes into consideration

the location of the emergency, rescue and fire fighting equipment, the path of the escape and rescue routes and the safety signage in the building. After all of the important information has been definitively registered, the final alignment with the relevant authorities (e.g. fire brigade, fire protection services, building authorities) can be conducted on request.

Upon approval of the authorities the plans will be handed out in printed or digital form.

Within the scope of safety identification we offer you the following plans, among others:

# Escape and rescue plan

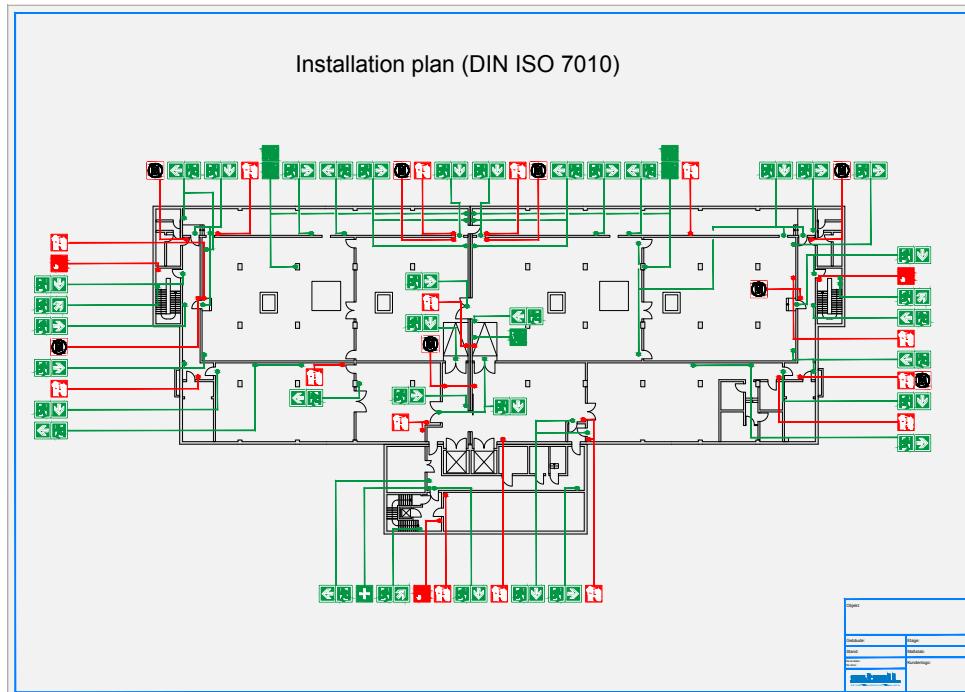


## Escape plans

A property's escape and rescue plans are designed for quick orientation so that the fastest and safest path out of danger can be identified. The plans complete the safety identification and increase the level of safety for people in the building. Consulting our on-site audit, we draw up the plans which present a simple, comprehensible of the escape routes and safety signs, fire extinguishers, wall hydrants, pressure detectors, first aid kits, stretchers etc. . They also contain the rules of conduct in accordance with Part A of the German Brandschutzordnung ("Fire safety regulation"), i.e. how to behave in the event of fire or accidents.

## Installation plans

Within the framework of the on-site audit, we can conduct a variance analysis for the existing labelling or prepare a new documentation of the safety signage if you please. Our expert staff will record all of the signs that are present on your site and note all of the labels that are missing or need to be adapted. We will then create plans for you that include the positioning and fastening of the signs as well as the proper installation options. These plans can be used for an on-site installation by us or your own employees, for documenting your plant, or for further planning of your safety identification.



## Fire safety regulation

The fire safety regulation includes the most important measures to follow for preventing and dealing with fires and is divided in the three following parts. Part A of the fire safety regulation addresses all persons in the relevant building and describes the most important rules in cases of fire or accidents. Part B addresses the employees of the company and, amongst others, describes general measures in order to prevent spread of fire and smoke and guidelines of how to keep clear the escape and rescue routes. The third Part C addresses employees of the company being in charge with fire prevention tasks and mainly describes fire protection measures. The fire safety regulation needs to be individually applied to every building and be checked every other 2 years by a fire prevention expert. Upon request, we can provide you with Part A as individual printouts; these can be complemented with Parts B and C as hardback copy.



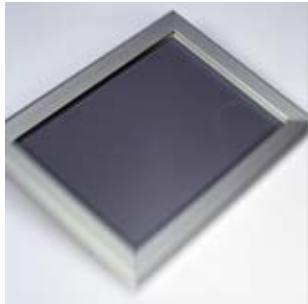
## Designs

Upon completion of our work, we give you a data medium that contains the digital documentation in the desired file format (supported file formats: \*.PDF, \*.DWG, \*.DXF). You of course also have the option to use the printing and plotter service. This includes, amongst others, multi-colour printing, formats from DIN A4–DIN A0 and special formats upon

request, photoluminescent plots (e.g. for escape and rescue plans), and lamination up to DIN A 1. We offer a selection of folding frames in different shapes and sizes. If you are looking for a more appealing variant we recommend the acrylic frames of our own production.

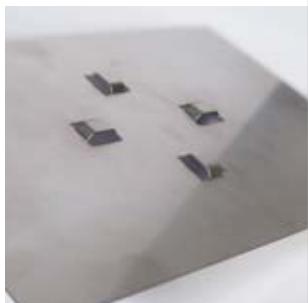
# Fastening and Accessories

In order for a sign to aid in providing comprehension, safety and orientation, it must be properly installed. Our fastening products therefore offer the right solution for each of our safety identification systems. Tried, tested and durable, the different sizes and types of signs can be fastened to the necessary installation points in a clearly visible manner. For further questions regarding our products our sales team is always at your disposal.



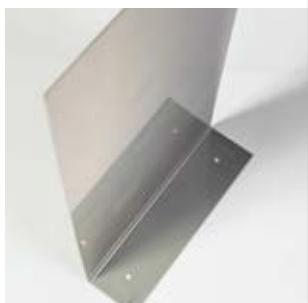
## Snap frame

Material		Quantity		Article
Aluminium, anodised		1 piece		0060
Width x Height x Depth	Media size	mitred corner	rounded corner	lockable
274 x 361 x 32 mm	DIN A4	Order-No. 02731 Price € 28,10	02732 € 30,60	–
361 x 484 x 32 mm	DIN A3	Order-No. 02734 Price € 32,70	02735 € 35,70	02736 € 44,40
484 x 658 x 32 mm	DIN A2	Order-No. 02737 Price € 47,00	02738 € 51,00	02739 € 58,70
				47509 € 53,10
				47508 € 63,30
				47507 € 93,90



## Sign mount

Material		Quantity		Article
Aluminium <b>A</b> / Stainless steel <b>S</b>		1 piece		0107
Width x Height	Includes	Mat.	Mat.	
145 x 145 mm	incl. double faced adhesive foa tape	<b>A</b> Order-No. 49542 Price € 6,50	<b>S</b> 36632 € 6,90	
195 x 295 mm	mincl. double faced adhesive foam tape	<b>A</b> Order-No. 49543 Price € 13,40	<b>S</b> 36633 € 14,40	



## Flag fastener

Material		Quantity		Article
Aluminium <b>A</b>		1 piece		0061
Width x Height	Application	Mat.	Mat.	
150 x 150 mm	wall and ceiling suspension	<b>A</b> Order-No. 02715 Price –	<b>A</b> 02715 € 7,20	
150 x 300 mm	wall and ceiling suspension	<b>A</b> Order-No. 02716 Price –	<b>A</b> 02716 € 10,70	
150 x 450 mm	wall and ceiling suspension	<b>A</b> Order-No. 02717 Price –	<b>A</b> 02717 € 11,40	
200 x 200 mm	wall and ceiling suspension	<b>A</b> Order-No. 02718 Price –	<b>A</b> 02718 € 8,10	
200 x 400 mm	wall and ceiling suspension	<b>A</b> Order-No. 02719 Price –	<b>A</b> 02719 € 13,80	
200 x 600 mm	wall and ceiling suspension	<b>A</b> Order-No. 02720 Price –	<b>A</b> 02720 € 18,30	
300 x 150 mm	wall suspension	<b>A</b> Order-No. 02721 Price –	<b>A</b> 02721 € 9,70	
400 x 200 mm	wall suspension	<b>A</b> Order-No. 02722 Price –	<b>A</b> 02722 € 12,60	



### Nose fastener

Material	Quantity	Article
Aluminium	1 piece	0062
<i>Width x Height</i>		
150 x 150 mm	Order-No. Price	02701 € 10,30
150 x 300 mm	Order-No. Price	02702 € 12,10
200 x 200 mm	Order-No. Price	02704 € 11,70
200 x 400 mm	Order-No. Price	02705 € 15,00
200 x 600 mm	Order-No. Price	02706 € 18,20
300 x 300 mm	Order-No. Price	02703 € 15,80
400 x 400 mm	Order-No. Price	02707 € 21,50



### Snap frame

Material	Quantity	Article
Stainless steel	1 piece	0106
<i>Width x Height x Thickness</i>		
213 x 154 x 6,5 mm	Order-No. Price	07000 € 21,50
213 x 154 x 10 mm with mounting cross	Order-No. Price	07001 € 24,50
150 x 216 x 6,5 mm	Order-No. Price	07002 € 21,50
150 x 216 x 10 mm with mounting cross	Order-No. Price	07003 € 24,50
300 x 217 x 6,5 mm	Order-No. Price	07004 € 27,20
300 x 217 x 10 mm with mounting cross	Order-No. Price	07005 € 29,10
213 x 304 x 6,5 mm	Order-No. Price	07006 € 27,20
213 x 304 x 10 mm with mounting cross	Order-No. Price	07007 € 29,10



### Spacer

Material	Quantity	Article
Galvanised steel	4 pieces	0093
<i>Measurements</i>		
15 x 22 mm	Wall distance Order-No. Price	18,5 mm 08874 € 12,70
25 x 36 mm	Order-No. Price	25 mm 08876 € 15,60



### Fence bracket

Material	Menge in VE	Art.Nr.
Aluminium	1 Stück	0115
<i>Width x Height</i>	<i>Hole spacing</i>	
115 x 35 mm	80 mm	Order-No. 00100 Price € 8,80



### Pipe post clamp

Material	Quantity	Article
Galvanised steel	1 piece	0121
<i>Parts + Measurements</i>	<i>Hole spacing</i>	
	70 mm	Order-No. 04000 Price € 4,20
	350 mm	Order-No. 04001 Price € 7,80
Ø 60 mm, includes sign and clamp fastenings.	500 mm	Order-No. 04002 Price € 8,30
	700 mm	Order-No. 04003 Price € 9,40
	900 mm	Order-No. 04004 Price € 9,90



### Pipe post, hinge bracket

Material	Quantity	Article
Aluminium	2 pieces	0121
<i>Diameter</i>	<i>Application</i>	
Ø 48 mm	For clamping signs.	Order-No. 04005 Price € 10,50
Ø 60 mm		Order-No. 04006 Price € 23,00



### Universal anchor

Material	Quantity	Article
Plastic	100 pieces	0119
<i>Measurements</i>		
5 x 25 mm		Order-No. 01000 Price € 5,60
6 x 30 mm		Order-No. 01001 Price € 7,95
8 x 40 mm		Order-No. 01002 Price € 11,50



## Rosettes

Material	Quantity	Article
Stainless steel	50 pieces	0120
<i>Measurements</i>		
M3	Order-No. Price	01003 € 7,75
M4	Order-No. Price	01004 € 9,70
M5	Order-No. Price	01005 € 14,00



## Screw sets

Material	Quantity	Article
Stainless steel	5 pieces	0097
<i>Set Parts + Measurements</i>		
Set 1	Countersunk head T10, 3 x 35 mm + M3 rosette + universal anchor 5 x 25 mm	Order-No. Price
Set 2	Countersunk head T20, 4 x 40 mm + M4 rosette + universal anchor 6 x 30 mm	01006 € 2,70
Set 3	Countersunk head T25, 5 x 50 mm + M5 rosette + universal anchor 8 x 40 mm	Order-No. Price
		01007 € 2,80
		01008 € 2,95



## Screws

Material	Quantity	Article
Galvanised steel <b>S</b> / Stainless steel <b>S</b>	100 pieces	0097
<i>Diameter x Length</i>		
Self-drilling screw, pan head, 3,5 x 13 mm	Mat. <b>S</b> 01010	Mat. <b>S</b> 01009
Wood screw, countersunk head T10, 3 x 35 mm	Price € 5,65	Price € 5,50
Wood screw, countersunk head T20, 4 x 40 mm	Order-No. <b>S</b> 01011	Order-No. <b>S</b> 01011
Wood screw, countersunk head T25, 5 x 50 mm	Price € 6,50	Price € 6,50
	Order-No. <b>S</b> 01012	Order-No. <b>S</b> 01012
	Price € 9,25	Price € 9,25
	Order-No. <b>S</b> 01013	Order-No. <b>S</b> 01013
	Price € 17,85	Price € 17,85



## Double-faced acrylate adhesive tape

Material	Quantity	Article
Acryl	1 piece	0063
<i>Width x Length</i>		
150 mm x 50 m	Order-No. <b>S</b> 02699	Price € 168,50
200 mm x 50 m	Order-No. <b>S</b> 02700	Price € 224,70



### Double faced adhesive foam tape

Material	Quantity	Article
Polyethylenschaum	1 piece	0021
<i>Width</i>	<i>Length 50 m</i>	
150 mm	For signs	<b>Order-No.</b> 00094 Price € 215,50
200 mm	For signs	<b>Order-No.</b> 00095 Price € 288,40
300 mm	For signs	<b>Order-No.</b> 00096 Price € 431,00
400 mm	For signs	<b>Order-No.</b> 00097 Price € 571,90



### Cartridge skeleton gun

Quantity	Article
1 piece	0091
<i>Application</i>	
For adhesives and sealants from the cartridge	<b>Order-No.</b> 05456 Price € 13,00



### Glue

Quantity	Article
1 piece	0091
<i>Design</i>	<i>Application</i>
Cartridge, 310 ml	For the assembly of signs, transparent
	<b>Order-No.</b> 47477 Price € 17,30



### Cleaner sprays

Quantity	Article
1 piece	0091
<i>Design</i>	<i>Application</i>
Spray can, 500 ml	For degreasing metallic surfaces, glass and ceramics (check suitability before use)
	<b>Order-No.</b> 33847 Price € 12,50
Spray can, 500 ml	For cleaning heavily soiled surfaces
	<b>Order-No.</b> 33848 Price € 7,10

# Terms and Conditions

## 1. General

**1.1** The following "Terms and Conditions – Purchase Contract", in here later referred to as "terms and conditions", apply to all purchase contracts between the Stell GmbH (Limited liability company), Raiffeisenring 35-37, 46395 Bocholt, Deutschland (in here later referred to as "seller") and enterprises according to § 14 BGB, legal bodies under public law and legal assets under public law (in here later referred to as "buyer").

**1.2** Contradicting or differing terms and conditions of the buyer are no subject to the contract even if the seller is fulfilling the contract without having explicitly refused those terms. Differing terms only apply if explicitly agreed to by the seller in writing.

## 2. Contract proposal and conclusion, offers, orders

**2.1** The offers of the seller are non-binding and shall be considered as a proposal towards the buyer to place a purchase order with the seller. The purchase contract (in here later referred to as "order") is concluded with the placement of the order by the buyer and the acceptance of the order by the seller. If the acceptance notice differs from the order, it is to be considered a new, non-binding offer of the seller.

**2.2** By placing the order the buyer bindingly declares to willingly purchase the ordered products. The seller is entitled to accept the offer for the order within 2 weeks after the placement of the order. By placing the order, the buyer agrees to the present terms and conditions. The same applies to all future purchase orders even if the terms and conditions are not explicitly referred to.

**2.3** The buyer is obligated to immediately revise the acceptance notice/order confirmation of the seller. If no formal acceptance notice has been issued, the former applies also to instalments, partial or final accounts.

**2.4** The granting of a certain property or suitability of the ordered product concerning a certain intended use as well as taking over a guarantee is only binding if confirmed by the seller in writing. The properties of patterns or samples are only binding as long as explicitly agreed to be properties of the product.

**2.5** As far as the seller provides advice and support services, those are provided to the best of his/her knowledge.

## 3. Purchase price, payment, default, off-set, retention, transfer of claims

**3.1** (a) All prices are ex office of the seller.

(b) Generally, the purchase price is excluding present statutory VAT as far as legal tax obligations apply. If the statutory VAT rate increases between the conclusion of the contract and the issuance of the invoice, the buyer has to pay the higher VAT rate.

(c) On deliveries within the EU, the buyer has to provide his/her VAT ID number used for his/her turnover taxation priority to the payment. For non-electronic export declarations concerning deliveries from the Federal Republic of Germany to countries outside of the EU which are not carried out or initiated by the seller, the buyer has to provide the export declaration necessary for taxation. If the export declaration is not provided, the buyer has to pay the VAT for the products in addition to the invoiced amount for deliveries within Germany.

(d) The seller is entitled to claim down payments according to the value of already performed partial deliveries.

**3.2** If the agreed delivery term exceeds 4 months, the seller reserves the right to reasonably adapt the agreed purchase price according to changes of actual costs, including material costs and labor expenses as well as shipping costs if necessary. The same applies in case of increase of customs or fees required for deliveries at the seller's expense. If the price not proportionally increases compared to the consumer price index, the price increase will be limited to the market price. Paragraph 4.12 remains untouched.

**3.3** The agreed purchase price is due within 7 days after the delivery of the product to the buyer without deductions, unless otherwise agreed upon. The same applies to partial deliveries. Trade discounts may only be deducted if the payment has been credited to the seller's account in due time and if the buyer is not in default with other claims of the seller at the time of the respective payment. Trade discounts may only be deducted from the net price.

**3.4** Drafts and checks will only be accepted on account of performance and upon explicit agreement. They will be considered as payment until they are encashed. Draft charges and taxes are at the buyer's expense after the expiry of the agreed payment term.

**3.5** The buyer defaults in payment after the expiry of the 7th day after the delivery of the product, latest after expiry of the last day of an individually granted payment period.

**3.6** (a) The buyer may only offset against claims of the seller with undisputed, final and absolute counter claims.

(b) Letter (a) respectively applies to the execution of retention rights by the buyer.

**3.7** The buyer is not entitled to retain claims of the seller resulting from this contract due to unsettled claims not subject to this contract. 3.8 The buyer's right to lien according to § 369 HGB does not apply.

**3.9** If there are reasonable doubts concerning the liquidity or credit status of the buyer and if the buyer is not willing to pay in advance or provide a suitable financial security on demand of the seller, the seller is entitled, if he/she has not performed yet, to demand an advanced cash payment before a pos-

sible further/subsequent delivery. This particularly applies to agreed, but not yet carried-out subsequent business transactions.

**3.10** The seller reserves the right to use payments to settle the oldest open account item plus incurred default interests according to the following order: costs, interests, principle claim.

**3.11** The seller is entitled to transfer claims resulting from or in relation to this purchase contract. The buyer may not transfer his claim against the seller to third parties. § 354a HGB remains unchallenged.

**3.12** On default of payment of remuneration claims, the seller is entitled to claim default interest of 8 %-points above the basic interest rate according to § 247 BGB valid at the time of default occurrence. § 352 HGB as well as claims towards further actual default damages remain unchallenged, so do legal rights to claim damages for the failure of performance as well as withdrawal from the contract.

**3.13** On default, all claims resulting from all contract relationships of the parties are due immediately, unless the default is related to only minor claims.

## 4. Delivery, transfer of risk

**4.1** If no explicit delivery term has been stated by the seller, the delivery may be claimed not until 8 weeks after the conclusion of the contract. An agreed approximate delivery term does not begin until receipt of all necessary documentations and information to be handed in by the buyer (P&IDs, specifications, production lists, approval of layouts).

**4.2** If the buyer has been granted a certain delivery period, this period is to be considered as complied with if the product to be delivered has been delivered to the customer. If the purchase contract consists of several partial deliveries, the acceptance has to take place according to the agreed delivery intervals.

**4.3** If not otherwise agreed upon, the products are provided for delivery at the seller's place of business. On collection from the delivery point the collection has to take place by the buyer or his/her representatives according to legal regulations concerning secure loading of vehicles.

**4.4** If a dispatch of products has been agreed upon, the seller dispatches the products on request of the buyer according to § 447 BGB at the buyer's risk and expense.

**4.5** If employees of the seller support the loading of vehicles according to paragraphs 4.3, 4.4 outside the scope of agreed services on request of the buyer, they solely act on behalf of the buyer.

**4.6** (a) The risk transfers latest on handing over the product to the forwarding/collecting agent according to paragraph 4.3, also in the event of partial deliveries or if the seller has taken over additional services, such as dispatch

or direct delivery of the products. On request of the buyer, the shipment will be insured against theft, physical, fire or water damages and other insurable risks by the seller acting as a mediator only.

(b) If the buyer defaults in acceptance, the seller is entitled to store the products without further notice/reminders at the buyer's expense and risk.

(c) If the buyer defaults in acceptance, the purchase price is due immediately.

**4.7** Partial deliveries by the seller are accepted, if reasonable to the buyer under consideration of the interest of both parties.

**4.8** The acceptance of the shipment without objections by the forwarding/collecting agent is to be considered proof of intact packaging and correct loading, unless the buyer proves that the packaging was damaged or the loading did not take place correctly on handing over the shipment to the forwarding/collecting agent. Complaints due to transport damages are to be reported immediately to the company in charge of the shipment with a copy to the seller.

**4.9** If the parties use INCOTERMS clauses for an individual purchase contract, those terms apply in the version valid at the time of concluding the contract. Possible contradictions with other terms of paragraph 4 of this agreement are overruled by the agreed INCOTERMS regulations.

**4.10** The buyer is responsible for the compliance with legal and official regulations concerning import, delivery, storage and use of the services and deliveries performed by the seller in the country or place of destination as well as in the transit countries as well as responsible for the acquisition of required import and transit documents (custom etc.) as long as those are not exclusively to be provided by the seller due to legal reasons.

**4.11** All deliveries are subject to correct and due supply of the seller.

**4.12** If it has been exceptionally agreed upon that the seller is to bear custom or export/import costs of the country of origin/destination or of transit countries, the cost increase occurring in between the time of the acceptance of order and delivery of the contractual products transfers to the buyer.

## 5. Reservation of title

**5.1** Products remain property of the seller until complete payment of all receivables resulting from the business relationship with the buyer are settled.

**5.2** The reservation of title also persists if single claims of the seller are added to a running account and the account is balanced and confirmed.

**5.3** The return of reserved products does only represent a withdrawal from the contract, if explicitly declared by the seller in writing. If the seller withdraws from the contract, he/she may claim a reasonable compensation for

the duration the products were in possession of and in use by the buyer.

**5.4** (a) The buyer is entitled to use the products owned by the seller in the usual course of business as long as he/she complies with his/her duties resulting from the business relationship with the seller. Not included in the usual course of business is the transfer of claims concerning the purchase price from the buyer to his customer(s); in particular: pawning, mortgage or other encumbrances of the products are prohibited.

(b) All claims of the buyer resulting from the resale of products owned by the seller are already by now transferred to the seller for security reasons, if applicable in the amount of the co-ownership share. Confirmed receivables resulting from current account agreements the buyer already transfer to the seller at the time of concluding the contract with the seller in the amount of accounts receivable. If the buyer defaults in payment, the seller is entitled to claim the interim return of the products owned by the seller even without withdrawing from the contract and setting an additional grace period at the buyer's expense.

(c) In the event of processing of products owned by the seller, the seller is to be considered the manufacturer and gains a co-ownership proportionally to the invoiced value of his own products.

(d) If the product of the buyer is to be considered the final product in the event of attaching or blending of products owned by the seller with goods of the buyer, the co-ownership of the product transfers to the seller in the amount of the invoiced value of his/her own product or the current market value of the final product, if an invoiced value is not existent. In these cases the buyer is to be considered the custodian of the product.

**5.5** In the event of resale of products owned by the seller, the buyer is obligated to arrange regulations concerning the reservation of title with his customers without revealing the original reservation of title agreed upon with the seller. (Secondary reservation of title)

**5.6** If the seller has reasonable concerns that the buyer is not fulfilling or will not fulfil his/her duties towards the seller, the buyer is to order his/her customers on demand of the seller to abstain from demands to receiving information about the stock of seller-owned products and receivables transferred to the seller as well as to being handed out documents to enforce transferred receivables. The same applies in case of withdrawal of the direct debit authorization. Access to reserved products by third parties and transferred receivables is to be announced immediately.

**5.7** If the security value exceeds the claims of the seller by more than 10 %, the seller will release securities on the buyer's request.

## 6. Warranty, Guarantee

**6.1** If not individually agreed upon, the seller delivers the product according to the terms stated in the regular product description (catalogues etc.), otherwise according to standard quality. Ad-

ditional properties of the product to be purchased stated in other publications or advertisements of the seller or his/her suppliers/manufacturers may not be derived by the buyer unless the seller has confirmed those additional properties in writing. Guarantees require an explicit written confirmation by the company management of the seller.

**6.2** Subject to compliance with inspection and objection obligations of the buyer according to Section 377 German Commercial Code (HGB) in connection with paragraph 6.3 of this agreement, the seller may choose to compensate for defective products between rectification of the defect or new delivery. The seller reserves the right of two rectification attempts. The seller is entitled to reject the chosen rectification method if rectification would result in unproportionally high costs and the other method of rectification is possible without significant disadvantages for the buyer. If the rectification fails, the buyer is entitled either to claim a reduction of the purchase price or to withdraw from the contract. The right of the buyer to legally claim compensation for damages or necessary expenses according the law, in addition to withdrawing from the contract, remains unchallenged, except the limitations for claims of the buyer according to paragraph 7 of this agreement.

**6.3** The defect notice according to Section 377 German Commercial Code (HGB) may only be issued by the buyer in writing. Further legal requirements according to Section 377 German Commercial Code (HGB) remain unchallenged. Regardless of that, guarantee claims of the buyer are excluded if the buyer fails to report obvious defects in writing within one week from the date of delivery until dispatch of the written defect notice.

**6.4** The delivery of defect-free product for the purpose of rectification generally takes place only in exchange to the return of the defective product.

## 7. Liability

In cases of contractual or non-contractual liability, the seller compensates for damages or lost expenses according to the following regulations:

**7.1** The seller is liable to the full amount in cases of intent or gross negligence.

**7.2** On lack of a property for whose existence the seller has taken over a guarantee or which has been assured to the buyer, the seller is liable for the typical, foreseeable damage which was supposed to be prevented through the guarantee or assurance as long as the lack of the guaranteed/assured property was caused by intent or gross negligence.

**7.3** In case of light negligent violation of essential contractual obligations (cardinal obligations), the liability of the seller is limited to the compensation for the typical, foreseeable damage; in case of light violation of non-cardinal obligations, liability of the seller is excluded.

**7.4** The above mentioned limitations of liability do not apply to claims of the buyer under the Product Liability Act

and resulting from harm to life, body and health caused by the seller.

**7.5** Other legal obligations concerning compensation or exclusion of liability, such as Section 281, paragraph 1, sentence 3 German Civil Code (BGB) remain unchallenged.

## 8. Force Majeure

In case of events or circumstances, such as natural events, war, labor disputes, raw material and energy shortage, traffic and facilities disturbances, fire and explosion damages, orders of higher authorities whose occurrence are outside the sphere of influence of the seller, even under consideration of careful commercial planning and precaution, and which impair the availability of products from the source from which the seller is supplied so that the seller is not able to fulfil his/her contractual duties (under partial consideration of other internal and external delivery obligations), the seller is (i) relieved from his/her contractual duties for the duration and extend of the disturbance and (ii) is not obligated to obtain the products from third parties.

Sentence 1 also applies as long as the events and circumstances make the execution of the respective business sustainably uneconomic for the seller or influence the seller's suppliers. If those events last longer than 3 months the seller is entitled to withdraw from the contract.

## 9. Confidentiality, data protection

**9.1** The parties agree to treat all confidential information and industrial secrets of the other party collected within the scope of execution of the contract confidentially without temporal limits and to use them only within the scope of executing the contract.

**9.2** Both parties comply with data protection regulations. The handling of the business relationship will be supported by a data processing system of the seller, thus data of the buyer will be automatically collected and stored. The buyer will be informed about the storage of his/her data.

## 10. Industrial property rights

**10.1** The buyer is responsible that property rights of third parties are not violated by the seller receiving and using materials of the buyer, such as documentations, data, drafts, planes or other execution instructions provided by the buyer necessary for the execution of the contract, and relieves the seller from all related claims. The buyer bears license fees or costs resulting from the avoidance of such violations of property rights.

**10.2** If industrial property rights occur within the scope of the execution of contractual agreements, the buyer is to transfer those rights to the seller if legally possible. If the full transfer of rights is not possible, the buyer grants the seller an exclusive, over-all usage right, unlimited in time and space or, if even this is not possible, a non-exclusive right. Legal regulations which grant the buyer a reasonable compensation for the transfer of rights remain unchallenged.

**10.3** The buyer has no property rights towards films, plans, drawings and graphics compiled in the course of the preparation of purchase product. In particular, industrial property rights on those as well as on the contractual products remain with the seller. By full payment of the remuneration, the buyer gains the ownership on the delivered products.

**10.4** The seller is entitled to perform or deliver products to third parties, comparable to the products delivered to or compiled for the buyer, in particular films, plans, drawings and graphics. The seller is entitled to attach an adequate copyright label or label of origin to all contractual products.

**10.5** The seller is entitled to use the purchase of products delivered to the buyer within reason for own advertising and promotion purposes in any form, such as illustrations of products and the place of use at the buyer's facilities in brochures or electronic media. This right does only not apply if the buyer explicitly disagrees to such use by the time of his/her declaration of intent towards concluding the contract.

## 11. Place of execution, place of jurisdiction, choice of law, severability clause, written form

**11.1** Place of payments by the buyer is the company residence of the seller.

**11.2** (a) Place of jurisdiction for all claims resulting from or in relation to the respective purchase contract, concerning its conclusion, its effectiveness and execution is the usual place of jurisdiction of the seller or, on request of the seller, the usual place of jurisdiction of the buyer.

(b) If the buyer has his/her residence outside of the EU, all law suits resulting from or in relation to the respective purchase contract, concerning its conclusion, its effectiveness and execution are carried out according to the arbitration regulations of the German Institution for Arbitration (DIS) under exclusion of the legal recourse. Decisions are made by a single arbitrator who has to have a qualification to judgeship and is appointed according to Section 14 of the German DIS Arbitration Code. The place of arbitration is the place of residence of the seller. The language of arbitration is German. The gathering of evidence takes place under application of the valid regulations of the German Civil Code concerning the gathering of evidence.

**11.3** German law is applied under exclusion of CISG law (United Nations Convention on Contracts for the International Sale of Goods) as well as the referral regulations of the German International Civil Law.

**11.4** If single regulations of these terms of service are entirely or partially invalid or have legal gaps, the effectiveness of other regulations or parts of regulations remains unchallenged.

**11.5** The German version of these terms of service is legally determinative. The publication of a version in another language takes only place for the purpose of easier comprehension.



**stell**

**Stell GmbH**

Raiffeisenring 35-37

46395 Bocholt

Germany

[info@stell.de](mailto:info@stell.de)

[stell.de](http://stell.de)