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## ITAS – Industrial stairs and working platforms



Platform with staircase on a web offset machine.

The ITAS-system is suitable for many outdoor and indoor applications from the simplest railings to complicated stairs and working platforms.

The easy "socket connection principle" of the internal tension system reduces construction and assembly work to a minimum.

A positive connection is created by tightening the special clamping screws. The smooth contour transitions are pleasant to the touch and ensure enhanced safety.



Industrial stairs and worling platforms

General information/
Operation conditions......from page 228

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ITAS

# ITAS – Industrial stairs and working platforms

...no drilling or welding, no mitre cut – just assemble.



#### Internal tension system

Principle: The clamping rocker is titled by screwing in the set screw. The other side of the clamping rocker pushes the pressure piece against the inner side of the tube. Without the need for any mechanical machining, the tube construction is positively and quickly connected by simply tightening a screw.

Clamping set including clamping screw, clamping rocker, thrust pad and screw cap



#### **Quick change system**

Working and machining areas which in the past required additional guards can now be made accessible with just a few flicks of the wrist and without the need for any tools thanks to the ITAS quick change system. This makes the complicated removal of entire rail segments a thing of the past.



#### **Features:**

- Connect tubes without annoying transitions
- No mechanical treatment required just cut the material to length and assemble
- Flexible elements can be dismantled at any time
- Simple and stable system
- Plan and assembleit's as simple as that!

### **Options:**

 Other surface colours are available on request



### ITAS – table of contents

### **Properties/performance data**

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Versions (Dimensions, code numbers)

Internal tension systemp. 23		Internal	tension system	n	p.	230
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Quick change system
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### **Accessories**

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Stair railing support TGHFp. 248
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<b>Stair joint</b>
Stair corner jointp. 253
■ Tools/spare partsp. 253

## ITAS – Technical data

### **Basic information / mechanical properties**

- ITAS die-cast elements
- clamping mechanism inside from steel (zinc plated)

#### Loads

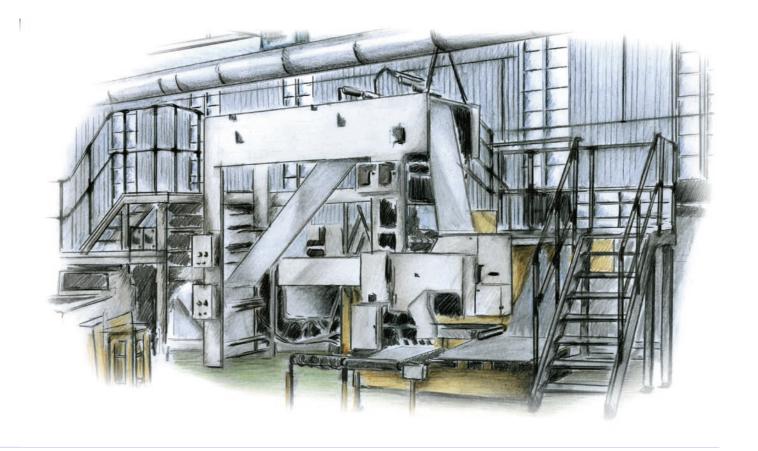






Adh. force: static pull, dynamic pull+presure

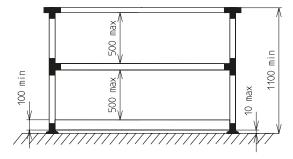
Size	Including static safety factor v = 2,5		Including dynamic safety factor v = 1,5	
Туре	F [N]	Mb [Nm]	F [N]	Mb [Nm]
FI 40	1250	340	1200	160
MI40	1250	340	1200	160
WI40	1250	200	1200	160
WIT40	1250	200	1200	160
WIE40	1250	200	1200	160
WITE40	1250	200	1200	160



# RK ROSE+KRIEGER

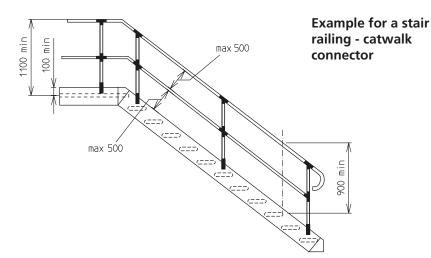
#### ITAS - Load data

- Load data according to DIN 1055
- Maximum permitted load of steps (for a length of 1,2 m) 1500 N
- Maximum permitted load of stairs cross beams (for a 45° angle and a length of 4 m without support) 3500 N
- Maximum permitted load of railing (distance between pillars 0,7 m) 500 Nm
- The maximum permitted load of the platform depends on the base construction. It cannot exceed the maximum permitted load of the base clamps used.
- Technical safety requirements in accordance with DIN EN ISO 141221-4



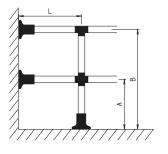
### Example for a horizontal railing

- The railing must have at least one knee rail
- Do not exceed a free space between the handrail and knee and foot rail of 500 mm
- Fit a foot rail with a minimum height of 100 mm maximum 10 mm above the step level

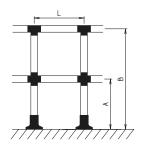


- A staircase must have at least one handrail
- With a flight width equal to or exceeding 1200 mm two handrails must be provided in the same manner as with all ladder stairs.

# Building regulations for railings according to UVV, VBG1 and conforming to DIN EN ISO 14122-3 "construction type" tested.



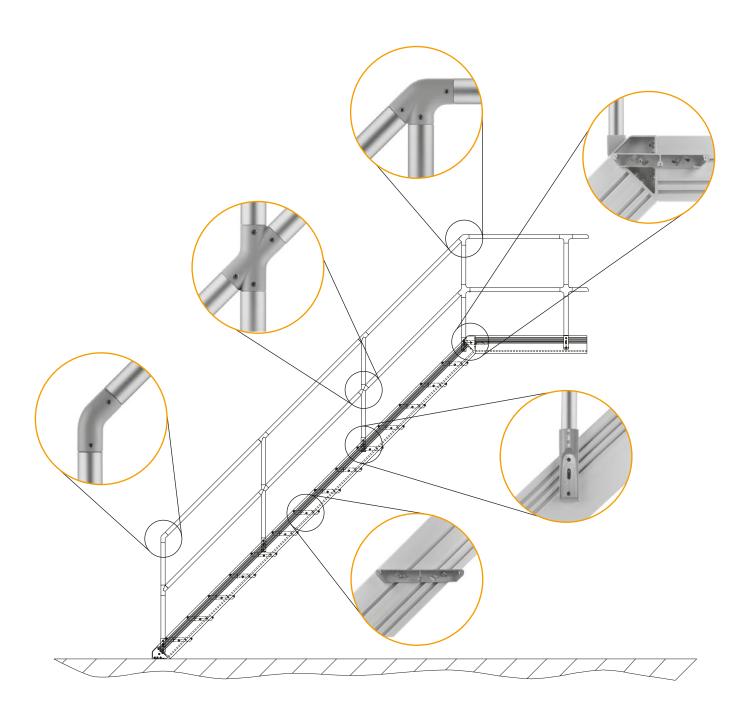
Example 1: wall and floor fixing



**Example 2:** self-supporting with floor fixing

Evample	С	imension ma	ix.
Example	Α		
1	500	1000	1500*
2	500	1000	1500*

<sup>\*</sup>The support spacing "L" must ensure that 340 Nm for base type FI40 is not exceeded.



#### **Features:**

- Technically optimised solution for the installation of railings, frame structures, boundaries, superstructures, stairs and working platforms of all kinds.
- The smooth transitions between all of the elements used and the connecting tube are kind on the hands
- Positive, quick connection with the simple tightening of a screw
   without the need for any mechanical machining

# RK ROSE+KRIEGER



MI 40



KI 40



KI 40H-45°



WIY 40-45°



WI 40



WI 40-45° 30°, 38°, 52°, 60°



WIT 40H-45°R



FIW 40



WIT 40



WIT 40-45°



WIT 40H-45°L



FI 40



WIE 40



WIT 40H-45°



WIV 40H-45°



TSI



WITE 40



KI 40-45°



WIV 40-45°



TGHF

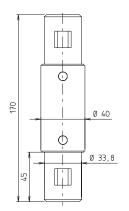
#### On request:

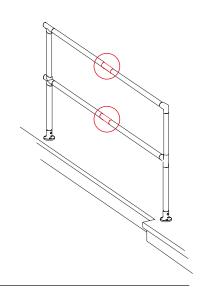
ITAS elements in various RAL colours



### Coupler MI 40

Code No.	Туре	m [g]
14403410025	MI 40	453

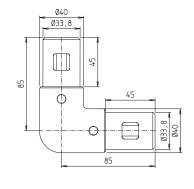


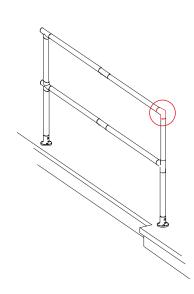




#### Elbow 90° WI 40

Code No.	Туре	m [g]
11403421025	WI 40	455

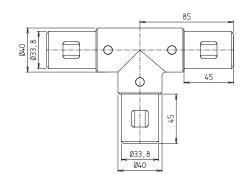


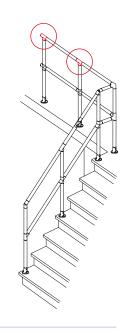




### T-joint 90° WIT 40

Code No.	Туре	m [g]
11403423025	WIT 40	625

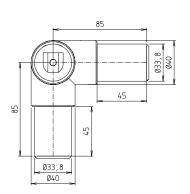


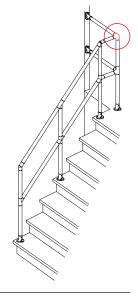




### **Corner joint WIE 40**

Code No.	Туре	m [g]
11403422025	WIE	624



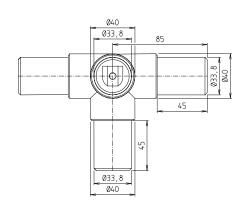


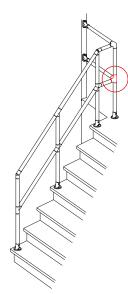
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### **Corner T-joint WITE 40**

Code No.	Туре	m [g]
11403424025	WITE 40	786

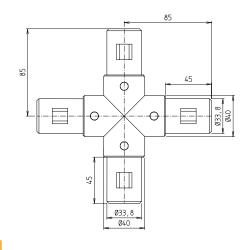






### Cross KI 40

Code No.	Туре	m [g]
10403410025	KI 40	795



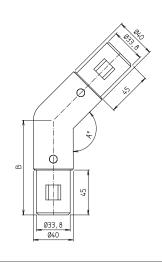
#### On request

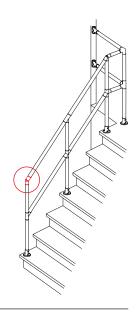
ITAS elements in various RAL colours



#### Elbow WI 40

Code No.	Туре	Α	B [mm]	m [g]
11404521025	WI 40-45°	135°	95	520
11405021025	WI 40-30°	150°	85	456
11404221025	WI 40-38°	142°	85	456
11402821025	WI 40-52°	128°	85	455
11402021025	WI 40-60°	120°	85	455

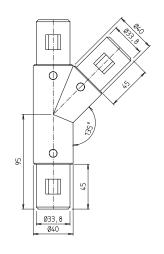


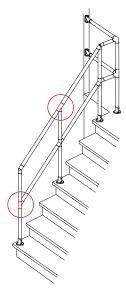




T-joint 45° WIT 40-45°

Code No.	Туре	m [g]
11404523025	WIT 40-45°	715

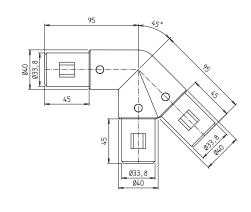


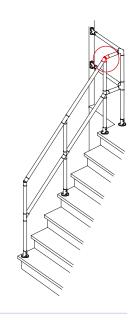




T-joint horizontal 45° WIT 40H-45°

Code No.	Туре	m [g]
11404525025	WIT 40 H-45°	715



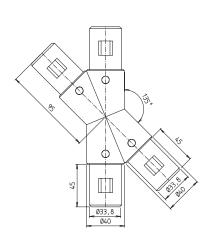


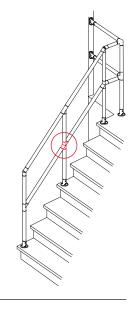




Cross KI 40-45°

Code No.	Туре	m [g]
10404510025	KI 40-45°	901

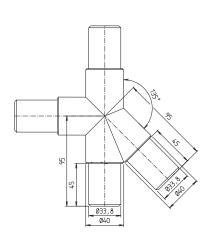


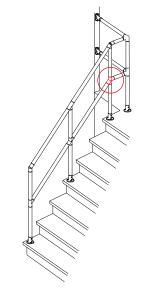




Cross horizontal KI 40H-45°

Code No.	Туре	m [g]
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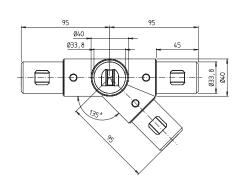






WIT 40H-45°R

Code No.	Туре	m [g]
11404528025	WIT 40H-45°R	908



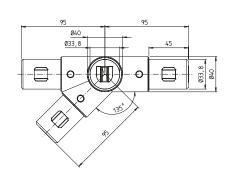
#### On request:

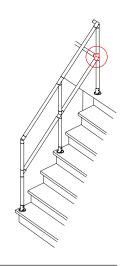
ITAS elements in various RAL colours



#### WIT 40H-45°L

Code No.	Туре	m [g]
11404529025	WIT 40H-45°L	903

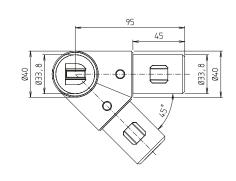


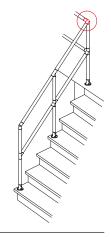




WIV 40H-45°

Code No.	Туре	m [g]
11404527025	WIV 40H-45°	693

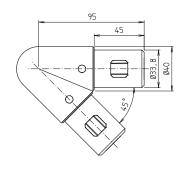


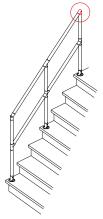




WIV 40-45°

Code No.	Туре	m [g]
11404526025	WIV 40-45°	486

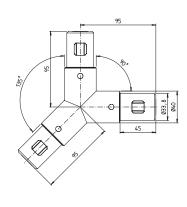






WIY 40-45°

Code No.	Туре	m [g]
11404530025	WIY 40-45°	733





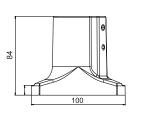


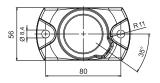


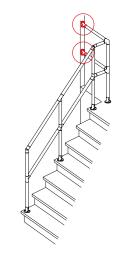




Code No.	Туре	m [g]
13403430025	FIW 40	428



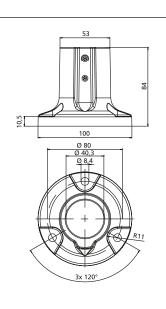


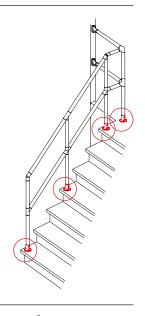




Base FI 40

Code No.	Туре	m [g]
13403431025	FI 40	487

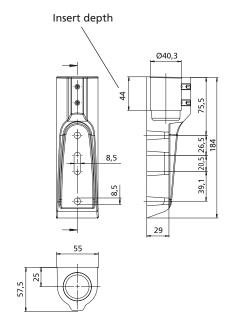


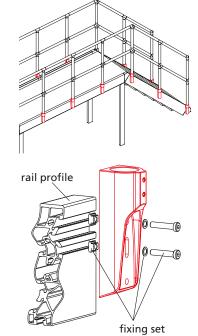




# Stair railing support TGHF

Code No.	Туре
13403429025	TGHF 40
93800	fitting TGHF cross beam profile

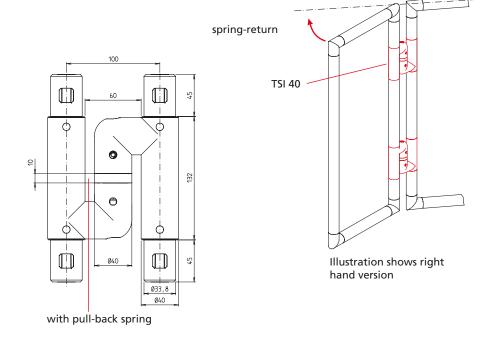




#### On request:

ITAS elements in various RAL colours



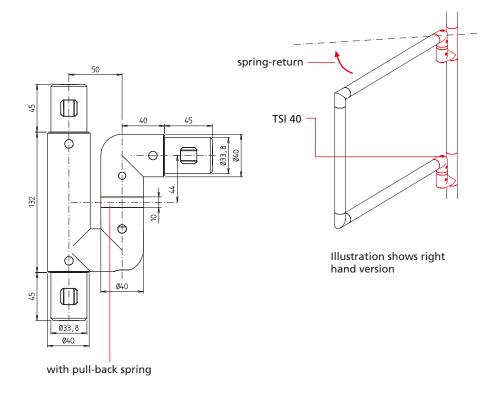


**TSI 40** 

Code No.	Туре	Version	m [g]
18403426025	TSI 40	Right-hand	1872
18403427025	TSI 40	Left-hand	1849

**Attenstion**: please read the instruction manual





**TSI 40-WI** 

Code No.	Туре	Version	m [g]
18403428025	TSI 40-WI	Right-hand	1353
18403429025	TSI 40-WI	Left-hand	1389

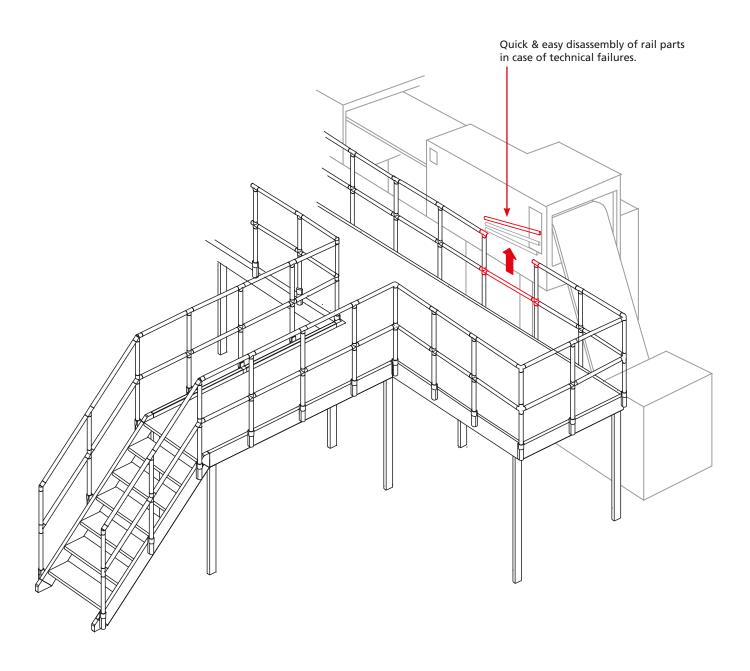
**Attentsion**: please read the instruction manual



Crossovers made from ITAS elements provide access to various production areas.

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# ITAS – Quick change system



#### **Features:**

- This system combines the proven flexibility of the internal tension system and an easy assembly and dismantling system which is not to be compared to that of common railing systems.
- It enables protected working and machine areas to be more accessible.
- The new ITAS Quick change system permits an easy access to specific machine parts in case of technical malfunctioning: all you need is to remove the necessary part of the balustrade.





WI 40-SW1



KI 40H-45°SW1



KI 40-SW2



WIT 40-SW1



WIT 40-SW2



WIT 40H-45°SW1



WIE 40-SW2



Dismantling of quick change system



Release stopper with a screwdriver



Loosen clamping screw



Turn the cross strut to 90° and then raise and release



# ITAS – Quick change system

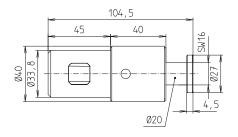
#### On request:

ITAS elements in various RAL colours



#### **MI-H 40-SW**

Code No.	Туре	m [g]
14403411025	MI-H 40-SW	307



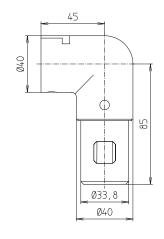
#### Attention:

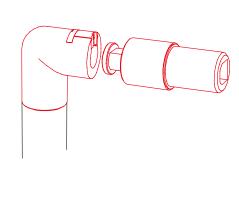
The clamping element MI-H 40-SW is included in the delivery set of the following quick change elements. This element does not need to be ordered separately



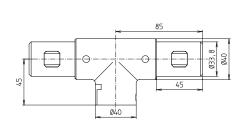
#### WI 40-SW1

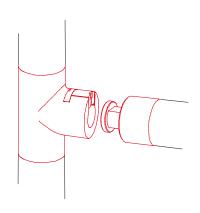
Code No.	Туре	m [g]
11403425025	WI 40-SW1	643







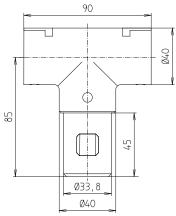


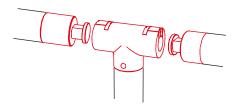


#### **WIT 40-SW1**

Code No.	Туре	m [g]
11403428025	WIT 40-SW1	828





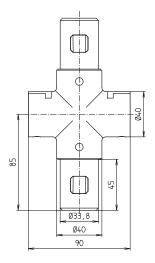


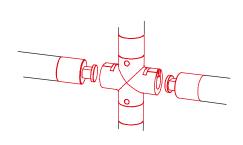
RK ROSE+KRIEGER

### **WIT 40-SW2**

Code No.	Туре	m [g]
11403426025	WIT 40-SW2	1020







### KI 40-SW2

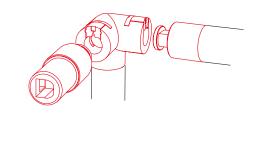
Code No.	Туре	m [g]
10403411025	KI 40-SW2	1221



# 45 Ø40 Ø34 Ø40



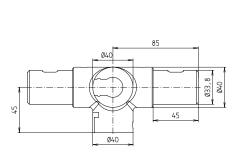
Code No.	Туре	m [g]
11403427025	WIE 40-SW2	1034

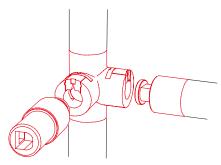


# ITAS – Quick change system

# On request: ITAS elements





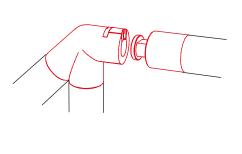


#### **WITE 40-SW2**

Code No.	Туре	m [g]
11403429025	WITE 40-SW2	1209



# 45 45 45 933,8 040



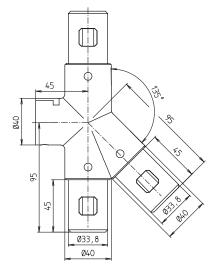
#### WIT 40H-45°SW1

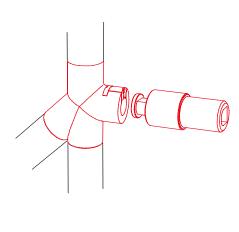
Code No.	Туре	m [g]
11404524025	WIT 40H-45°SW1	902

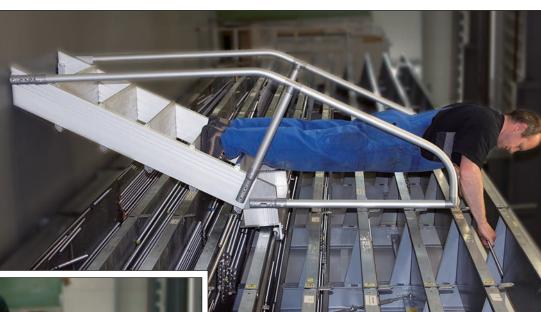


#### KI 40H-45°SW1

Code No.	Туре	m [g]
10404511025	KI 40H-45°SW1	1068







The mobile ITAS ladder makes accessing various storage shelves easier.



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### ITAS – Accessories



Aluminium tube Ø 40x3



Angle plate TGHF



Side plate



Surface element support FEH-I 40



Stair cross beam profile



Stair joint



Step profile



Stair corner joint



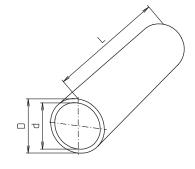




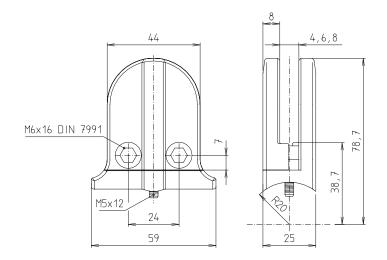
Material: AlMgSi 0,5 F22EQ Resistance moment  $W= 3 cm^3$ Moment of inertia  $I=6 cm^4$ 

#### **Aluminium tube**

Code No.	Туре	Version
8240302	40x3	clear anodized
8240303	40x3	black anodized
length [mm]		







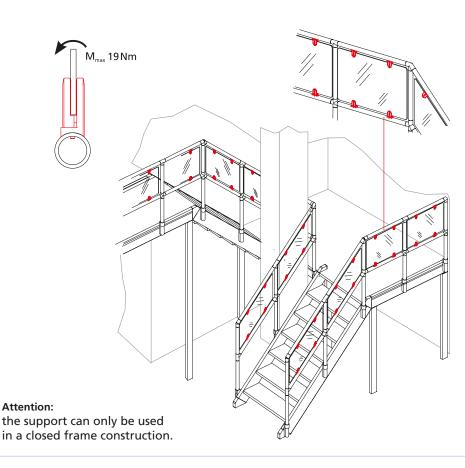
#### **Features:**

- The surface element support enables the clamping of panels of 4, 6 or 8 mm thickness.
- The support can be used with a Ø40 tube (min. wall thickness 3 mm)
- Only a 4.5 mm hole has to be bored into the tube where the support is then fixed with a thread former screw.

Material: PA-GF, black Fixation set galvanized

# FEH-I 40 (Surface element support)

Code No.	Туре
91803	FEH-I 40



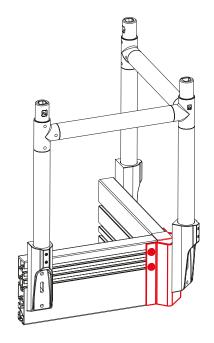
### ITAS – Accessories

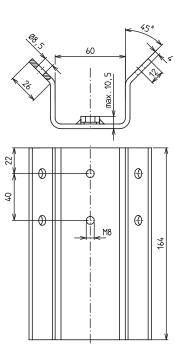
#### On request:

■ ITAS elements in various RAL colours

The angle plate is fixed to the corner of the stair cross beam at 90° degrees.







### **Angle plate for TGHF**

Code No.	Туре
96701	Angle plate