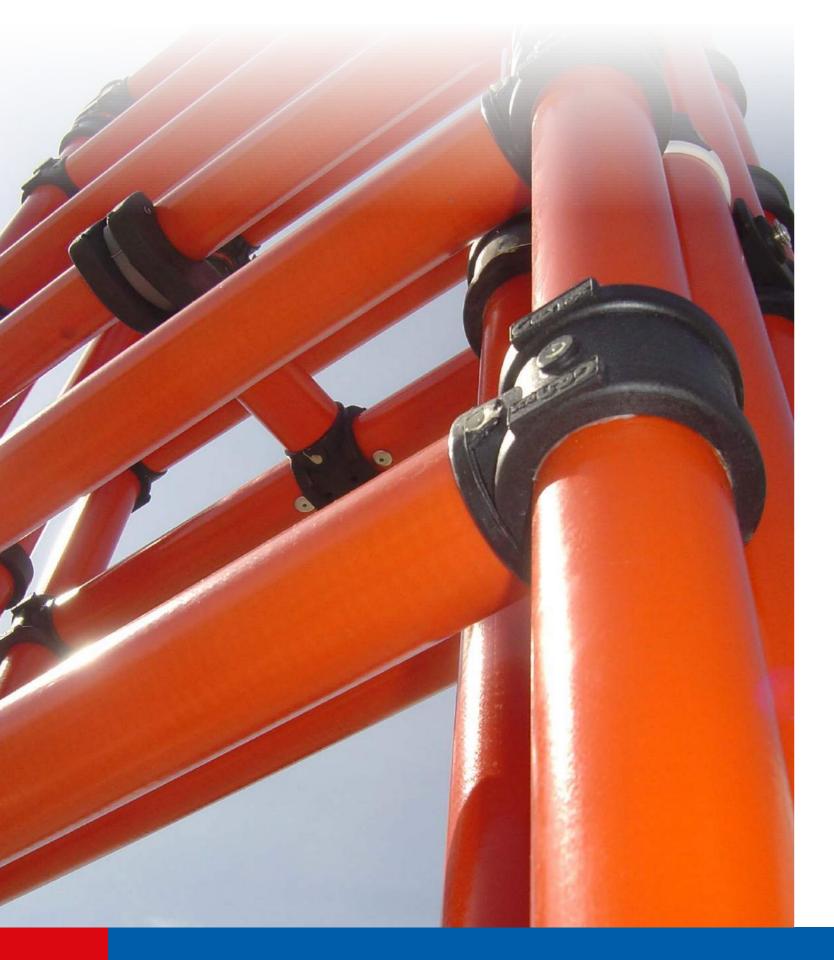


# **FIBREGLASS**

# One material - Unlimited possibilites



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# **FIBREGLASS**

### Overview of the material

#### **Characteristics & Benefits**

#### • Strength:

Glass fibre reinforced plastic (GRP) becomes its high stiffness and stability during the production process due to the compound of longitudinal fibreglass with polyester resin.

#### • Fire resistance:

Because of the special material properties GRP is not only highly resistant against fire but also self-extinguishing and non-dripping. Therefore GRP is particularly suitable for applications in electricity sectors.

#### Weight

Scaffolds made of GRP convince through their strength and light weight at the same time. Compared to similar constructed steel scaffolds the fibreglass scaffold indicates a weight saving of 75 %. For this reason the transport as well as the assembly and dismantling are associated with lower effort and costs.

#### Chemical resistance:

Due to the excellent chemical and weather resistance GRP is also particularly suitable for outdoor applications and uses in chemical sectors. Glass fibre reinforced plastic is non-corrosive and resistant against a lot of chemicals, like ammonia, ethyl alcohol, sulphuric acid and hydrogen peroxide.

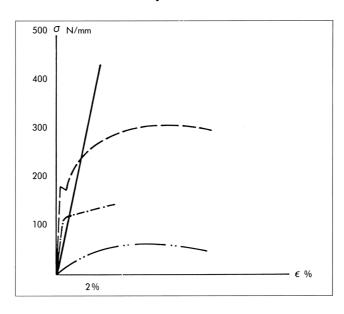
Properties	Benefits		
lightweight	easy, cheap transportation, assembly and dismantling		
solid	break-proof, dimensionally stable material		
corrosion-resistant, non-oxidizing	long lifetime, useable regardless of weather conditions		
cold- and heat-resistant	no burning or freezing at the material		
clean	no abrasion, no black hands		
hygienic	usage in sterile areas, food industry		
chemical-resistant	usage in chemical industry, low degradation		
fire-resistant	high fire-resistance, self-extinguishing, non-dripping		
insulating	usage in electrical industry, employee protection		

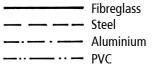
In comparison to other materials fibreglas is:

- lightweighter
- break-proofer
- more robust concerning density and strength
- better at heat- and insulating-capacity
- similar to steel in the thermical volume expansion, harder as PVC



### Strain curves in comparison





#### Strain curves in comparison

Compared to other materials like steel, aluminium and PVC fibreglass expands really linear under rising preasure.

### **Sectors & Industry fields**

The following professional groups and institutions already profit from the outstanding properties of fibreglass:

- Energy suppliers, Electricians
- Computer industry
- Chemical industry
- Building cleaners
- Food industry
- Brewery
- Railway industry
- Aircraft and aerospace industry

- Public utility companies
- Hospitals, Mobile rescue service
- Sterile sectors
- Theater, Museums
- Schools, Universities
- Gyms, Public pools
- etc.



### Overview of the series



#### Uni Tec

Maximum flexibility at scaffolding and rapid handling due to the foldable basic unit.



#### Prosafe

The cheap alternativ with standard measures and integrated access ladder.



**Uni Tec Insulation** 

Live-line working up to 110 kv on the foamed scaffolds.

### Advantages of fibreglass scaffolds

The fibreglass scaffolds of the Uni Tec and Prosafe series consists of easy composable holms and indestructible nylon connectors with highstable urethan-bond.

The holmes made of enforced fibreglass, polymeres and inhibitors against UV radiation are used for the production of braces and frames whereby a brilliant stability and durability is reached.

Also the connectors produced from glass fibre reinforced nylon have a long durability due to their weather and chemical resistant properties.

The applied urethan-adhesive ensures a highstable, temperature and water resistant connection between the nylon connectors and the fibreglass braces.

#### • Low weight:

Fibreglass scaffolds are 75 % lighter than usual, structurally identical scaffolds made of steel. The reduced weight saves transport coasts on the one side and facilitates the assembyl and dismantling on the other side.

#### Rapid assembly:

Thanks to the modular system, individual scaffold constructions can be complied. By means of plug connectors the single elements are connected. For assembly and dismantling no further tools are needed.

#### • Solid, clean Material:

Fibreglass scaffolds are extremly robust and can be used in sectors with high requirements on hygenic, chemical resistance, corrosion resistance and electrical insulation capacity thanks to their diverse properties.

#### Eye-catching signal color:

Because of the eye-catching signal colors orange and red the fibreglass scaffolds are clearly visible in danger zones. Moreover the different colorfulness simplifies the distinction between the Uni Tec and Prosafe series.

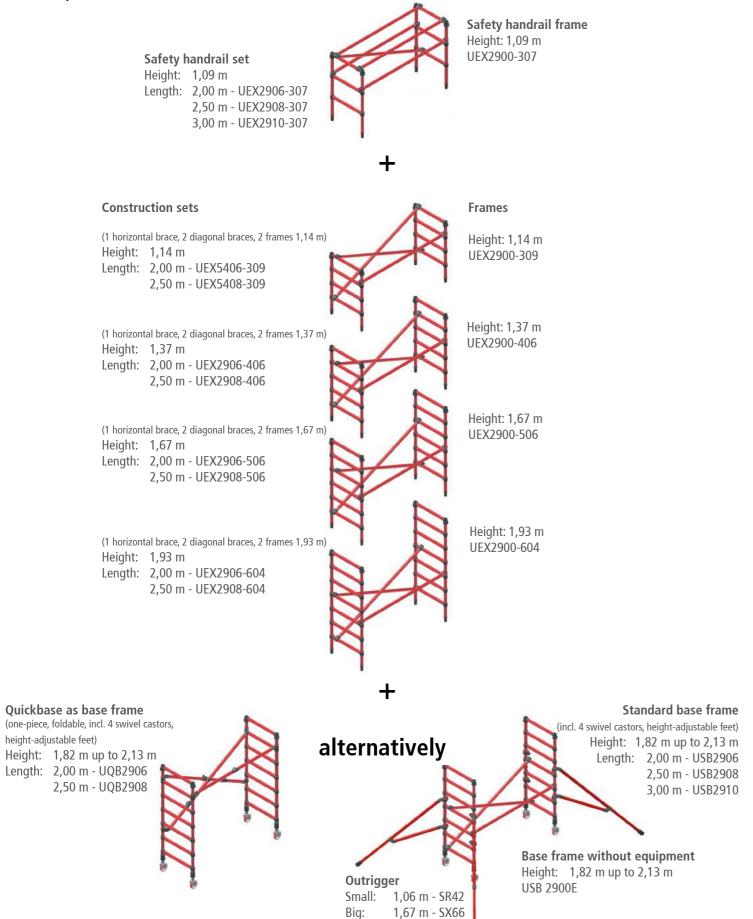
# FIBREGLASS SCAFFOLDS

**Uni Tec Series** 



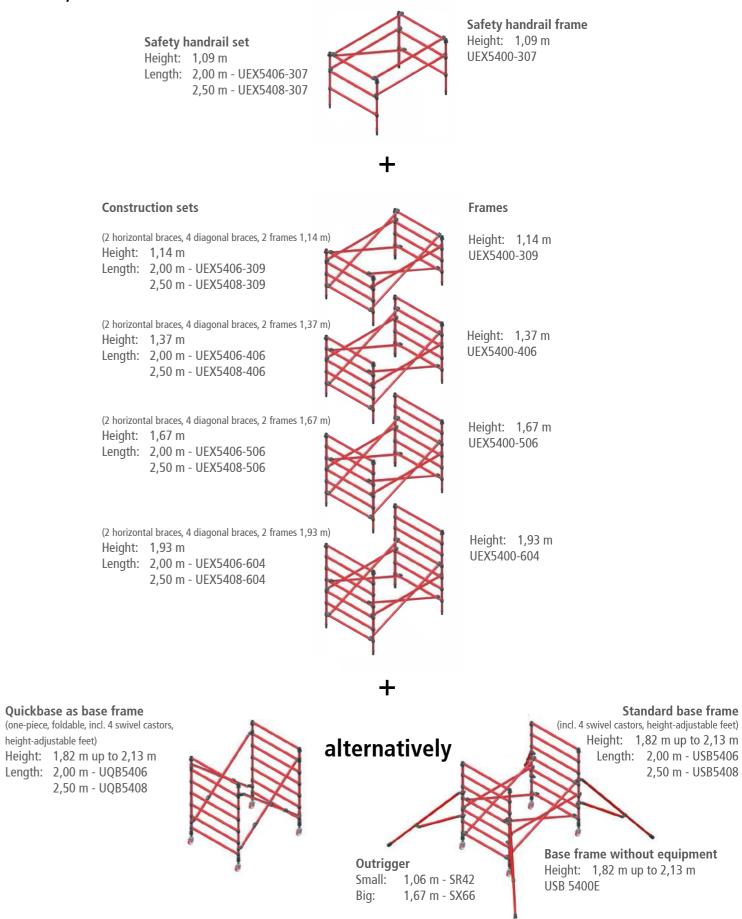
### **Uni Tec Series**

### Width 0,73 m



### **Uni Tec Series**

#### Width 1,37 m



### **Uni Tec Series**

### Quickbase

The special highlight of the Uni Tec series is the Quickbase.

The foldable unit is folded out in a matter of seconds and can be used as base unit for every fibreglas scaffold of the Uni Tec series.

The compact design facilitates the transport, enables an easier handling and decreases the required storage space.



### **Platforms**

For the wider scaffolds (1,35 m) you have to put two normal platforms next to each other.



Alu-wood-platt 2,00 m - SP06 2,50 m - SP08

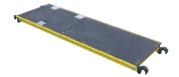


Alu-wood-platform with hatch

2,00 m - HP06 2,50 m - HP08



Fibreglass-wood-platform 2,00 m - FSP06 2,50 m - FSP08



**Fibreglass-wood-platform with hatch** 2,00 m - FHP06

2,50 m - FHP08



Fibreglass-grate-platform

2,00 m - GFSP06 2,50 m - GFSP08



Fibreglass-grate-platform with hatch

2,00 m - GFHP06 2,50 m - GFHP08

#### Toeboards



Toeboard wood small

Width: 0,60 m

Length: 2,00 m - WTB2906-61 2,50 m - WTB2908-61

Toeboard wood big

Width: 1,20 m

Length: 2,00 m - WTB5406-61 2,50 m - WTB5408-61

# Ladder



#### **Braces**



#### Horizontal brace 2,00 m - UHBE06 2,50 m - UHBE08



#### Diagonal brace 2,00 m - UDBE06 2,50 m - UDBE08

# **FIBREGLASS SCAFFOLDS**

### **Prosafe Series**



10

### **Prosafe Series**

### Width 0,85 m

The scaffolds of the Prosafe series can be designed very individual because every construction frame can be used as base frame unit.

#### Safety handrail set (4 horizontal braces, 1 diagonal brace (or 2 handrail frames), 2 frames UFR 3339A

### **Construction sets**

(2 horizontal braces, 2 diagonal braces, 1 frame 1,00 m , 1 ladderframe 1,00 m) Height: 1,00 m

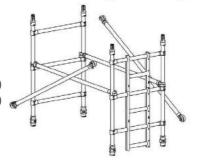
Length: 2,00 m - UFR3339-100 2,50 m - UFR3340-100

(2 horizontal braces, 2 diagonal braces, 1 frame 1,50 m, 1 ladderframe 1,50 m) Height: 1,50 m

Length: 2,00 m - UFR3359-150

Height: 2,00 m

2,50 m - UFR3360-150 «



3 Steps Height: 1,50 m UFR3359A

2 Steps

UFR3339A

Height: 1,00 m

Safety handrail frame

Frame without ladder

Lenghts: 2,00 m - U24342E06

2,50 m - U23996E08



Frame with ladder

Height: 1,00 m

2 Steps

UFR3339L

4 Steps

UFR3379L

Height: 2,00 m

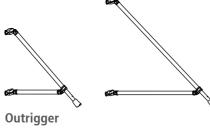
(2 horizontal braces, 2 diagonal braces, 1 frame 2,00 m, 1 ladderframe 2,00 m) 4 Steps Length: 2,00 m - UFR3379-200 Height: 2,00 m 2,50 m - UFR3380-200 UFR3379A



Swivel castor 127 mm - CA05-P



Threaded spindle hight-adjustable 28691/A

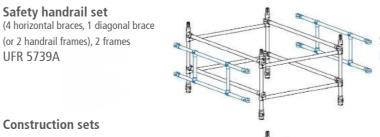


small: 1,06 m - PSRE42 GRP 1,67 m - PSXE66 GRP

### **Prosafe Series**

#### Width 1,45 m

Safety handrail set (4 horizontal braces, 1 diagonal brace (or 2 handrail frames), 2 frames UFR 5739A



Safety handrail frame

Frame without ladder

Lenghts: 2,00 m - U24342E06 2,50 m - U23996E08

(2 horizontal braces, 4 diagonal braces, 1 frame 1,00 m , 1 ladderframe 1,00 m) Height: 1,00 m

Length: 2,00 m - UFR5739-100 2,50 m - UFR5740-100

(2 horizontal braces, 4 diagonal braces, 1 frame 1,50 m, 1 ladderframe 1,50 m)

Length: 2,00 m - UFR5759-150

Height: 1,50 m

2,50 m - UFR5760-150

(2 horizontal braces, 4 diagonal braces, 1 frame 2,00 m, 1 ladderframe 2,00 m)

Height: 2,00 m

Length: 2,00 m - UFR5779-200 2,50 m - UFR5780-200

2 Steps Height: 1,00 n UFR5739A

3 Steps Height: 1,50 m





Frame with ladder







Height: 2,00 m UFR5779L

4 Steps



Base plate BP00



Swivel castor 127 mm - CA05-P



Threaded spindle hight-adjustable 28691/A



Outrigger

1,06 m - PSRE42 GRP small: 1,67 m - PSXE66 GRP

# **Prosafe Series**

### **Platforms**



Platform Width: 0,61 m

Length: 2,00 m - USPE06-61 2,50 m - USPE08-61

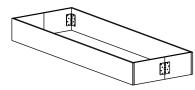


Platform with hatch

Width: 0,61 m

Length: 2,00 m - UHPE06-61 2,50 m - UHPE08-61

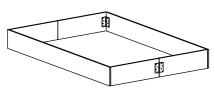
### Toeboards



Toeboard wood small

Width: 0,85 m

Length: 2,00 m - WTB2906-61 2,50 m - WTB2908-61



Toeboard wood big

Width: 1,45 m Length: 2,00 m - WTB5406E-61 2,50 m - WTB5408E-61



### Handrail frame

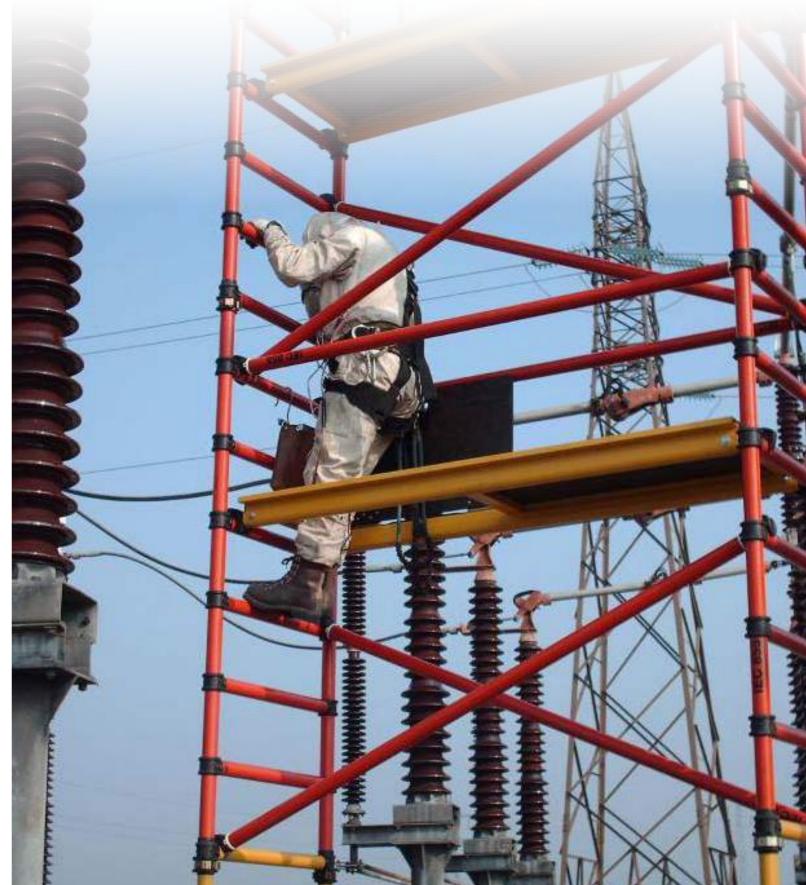
Handrail frame

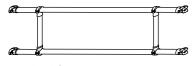
2,50 m - U24342E08



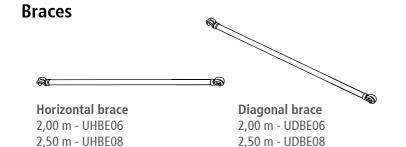
# **FIBREGLASS SCAFFOLDS**

**Uni Tec Insulation Series** 





2,00 m - U24342E06



### **Uni Tec Insulation Series**

Especially for working on electrical systems the Uni Tec Insulation Series was developed. This series meet the specific security requirements for live-line working.

The structure of the isolating scaffolds is identic with the common industry and metall scaffolds. In contrast to those and normal fibreglass scaffolds the fibreglass braces of the Uni Tec Insulation series became partly or totally filled with isolating foam.

Depending on application two different types of braces are installed. For the lower part the break-proofed, non-isolating, yellow fibreglass braces are used. Because of the risk to get in contact with electricity only the orange braces filled with isolating foam are installed in the upper part of the scaffold. These brace fulfill the Europe-wide valid IEC 855 standard.

All connectors between the single elements are made of plastic. Only the pins for saving the connections are produced of metall.

Due to the quick connection system the scaffold can be assembled very easy and quick. Only two person at the scaffold and one person on the floor are enough to work at maximum working hight within a very short period of time.

For an easy change of location the base frame is equipped with swivel castors. These are hight-adjustable up to 30 cm and enable to compensate uneven surfaces.

We gladly create you an individual offer according your requirements.

#### Characteristics

- leightweight
- stable, solid
- rapid and easy assembly
- insulating, isolating
- self-extinguishing, non-dripping
- chemical resistant
- non-corrosive, non-oxidizing

### **Sectors & Industry fields**

The following professional groups and institutions already profit from the outstanding properties of fibreglass:

- Energy suppliers, Electricians
- Computer industry
- Railway industry
- Public utility companies
- etc.





Work on isolators on high scaffold



Work on isolators on low scaffold



Work on isolators in a tramsformer station



Maintenance work in a transformer station



Repair work



Work on distance

15 \_\_\_\_\_\_ 1

# **Cutom-made products**



Scaffold on stair



Maintenance dock for EC 135



Scaffold at lecture hall



Scaffold on railway traverse



Work on isolators



Maintenance dock for rotor and tail of the Superpuma



Scaffold with overhang in shopping center



Custom-made scaffold for very narrow corridor



Live-line working

# **FIBREGLASS SCAFFOLDS**

# **Rescue platform**



## **Rescue platform**

### If every second counts, reliable equipment is important!

The AVV rescue platform impresses by:

- easy handling
- space saving transport
- simple construction

The foldable base unit of the fibreglass-nylon composite is the fundament of the mobile rescue platform. The base unit can be opened by a single person and is fully operational in a few seconds after inserting the platform.

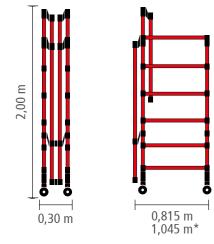


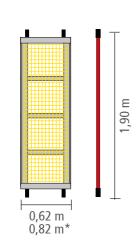
### Advantages of the fibreglas rescue platform

- rapid assembly without additional tools
- compact transport size and low weight
- high platform capacity (RP 62 up to 400 kg / RP 82 up to 500 kg)
- flexible platform height for operations up to 2,10 m stand height
- infinitely height-adjustable feet (up to 0,30 m)
- height adjustment up to 1,50 m possible due to the outriggers
- automatically locking secure quick lock during load
- weather- and chemical-resistant, current-insulating



# **Dimensions & weight**





- RP 62 (Grid 0,62 m) Total weight approx. 45 kg
- RP 82 (Grid 0,82 m) Total weight approx. 56 kg\*

\*constructed in accordance with DIN 14830 -RP



Height of fibreglas-grid

can be adjusted

flexible between

0,30 m up to 2,10 m

standing height



Outrigger with telescopic foot for

safety support and

height adjustment up

to 1,50 m height or

60 % slope\*\*

Continuously adjustable feet up Swiveling base plate: alternatively or additionally available to max. 0,30 m with integrated to the swivel castor\*\* adapters for swivel castors or pivoted base plate\*\* Rescue platform RP 82 with Secure quick lock, that locks 0,82 m grid is constructed in automatically during load accordance with DIN 14830-RP \*\* available as accessory Accessories Aluminium transport case **PVC** carrying bag wood base plate Height-adjustable Outrigger RP 62 Art.-Nr. FW-SCH 01-62 Art.-Nr. FW-SR-42 RP 62 Art.-Nr. FW-AB 214-62 Art.-Nr. FW-HB 30 RP 82 Art.-Nr. FW-AB 214-82 RP 82 Art.-Nr. FW-SCH 01-82

Extendable hand rail respectively back covering rail up to

1,00 m at highest standing height

Fibreglas-grid with R13-grip; no damage of tubes due to the wide seams\*\*

20 19

# **Accessories & Spare parts**



Short pin clip Art.-Nr. 14650



**Short pin clip stainless steel** Art.-Nr. 14650-E



Long pin clip Art.-Nr. 14595



Long pin clip stainless steel Art.-Nr. 14595-E



Star grip Art.-Nr. 14634



Eyebolt Art.-Nr. 16283



Eyebolt with star grip Art.-Nr. 16284



Platform claw Art.-Nr. 15039



Ballast weight 15 kg Art.-Nr. V-9764



Leg lock system Art.-Nr. 14658



**Leg lock threat set** Art.-Nr. 14524-9



Rubberfoot for outrigger Art.-Nr. 24508



Platform security Art.-Nr. 70003



Spare for platform security Art.-Nr. 19352



Quickbase folding mechanism plastic Art.-Nr. 57523



Parallel connector Art.-Nr. 123851



Swivel castor 127 mm Art.-Nr. CA 05



Swivel castor stainless steel 127 mm Art.-Nr. CA 05-E



Spare swivel castor 127 mm Art.-Nr. CA 05-R



Base plate stainless steel Art.-Nr. BP00-E



Parallel coupler nylon Art.-Nr. 22956



Rotating coupling nylon Art.-Nr. 22955



Outrigger coupling nylon Art.-Nr. 14635



Coupling with ballast weight Art.-Nr. V-9764K



Threaded spindle 60 cm

Normal Art.-Nr. 14686

Stainless Steel Art.-Nr. 14684-E



Quickbase diagonal brace Length: 2,00 m Art.-Nr. 14905 2,50 m Art.-Nr. 14906



Quickbase bracecross Length 2,00 m Width: 0,73 m Art.-Nr. 18133

1,37 m Art.-Nr. 18791



Quickbase bracecross Length 2,50 m Width: 0,73 m Art.-Nr. 18134 1,37 m Art.-Nr. 18792

# **Impressions**



Scaffold at museum



Lamp change on scaffold



Scaffold for train repair and maintenance



Scaffold in control room

# FIBREGLASS LADDERS

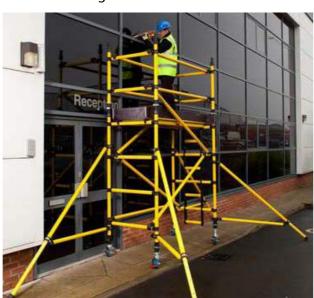
Stepladders made of fibreglass



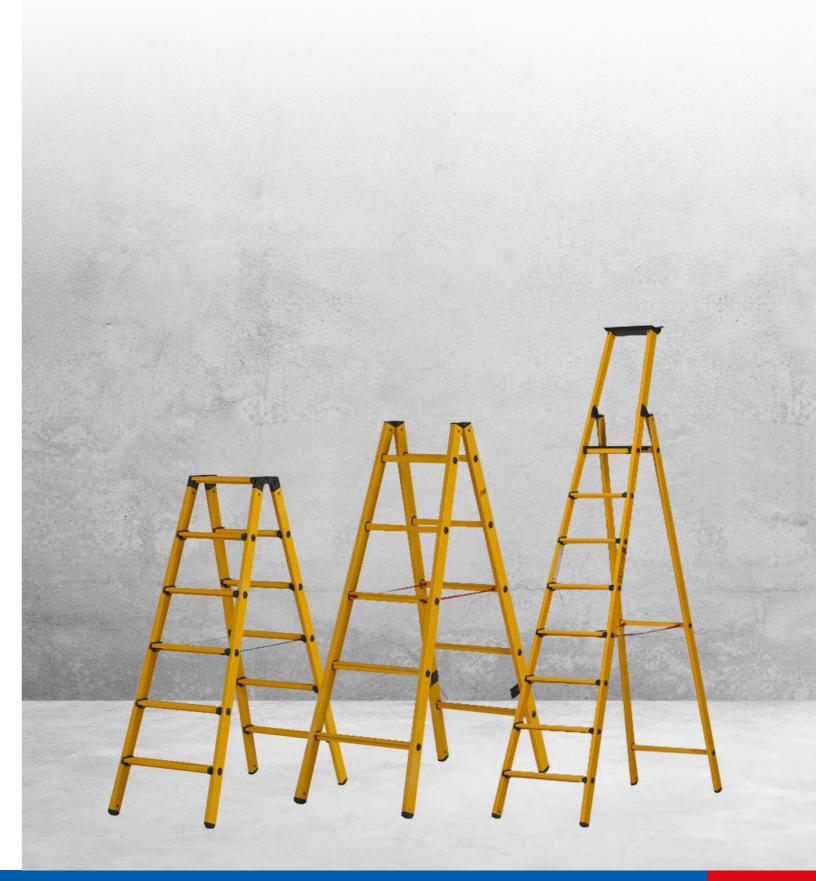
Scaffold at lecturing hall



Live-line working



Facadework on scaffold



# **Stepladders made of fibreglass**

#### **Characteristics**

- non-corrosive, non-oxidizing
- self-extinguishing, non-dripping
- hygienic, chemical resistant
- proofed security in accordance with EU-norm
- high stiffness of the holms and steps
- electrical isolation up to 30.000 V
- cold- and warmthresistant, temperatur stability
- high stability and strength through closed profiles
- easy, rapid assembly and dismantling

### **Sectors & Industry fields**

- Energy suppliers, Electrician
- Computer industry
- Chemical industry
- Building cleaners
- Food industry
- Hospitals
- Sterile sectors
- Theater, Museums
- etc.

### Stepladder - double-sided access



- without metal parts
- from the third step from above there are steps with 52 mm step depth

Typ Steps	Ladder- length in m	Set-up altitu- de in m	Width in m	Range in m	Holm- dimension	Weight in kg
205.004	1,27	1,19	0,48	0,95	25x58	7
205.005	1,55	1,45	0,51	1,14	25x58	8
205.006	1,83	1,71	0,54	1,33	25x58	9
205.007	2,11	1,98	0,58	1,52	25x58	11
205.008	2,39	2,24	0,61	1,71	25x58	13
205.009	2,67	2,50	0,64	1,90	25x58	15
205.010	2,95	2,77	0,67	2,09	25x58	17
205.012	3,51	3,29	0,74	2,48	25x58	19
205.014	4,07	3,81	0,80	2,86	25x58	22
205.016	4,63	4,34	0,87	3,24	25x58	25
205.018	5,19	4,86	0,93	3,63	25x73	30
205.020	5,75	5,39	1,00	4,01	25x73	36
205.022	6.31	5.91	1.06	4.39	25x73	41

Prices on application

### **Stepladder - double-sided access**



- without metal parts
- ribbed steps with 88 mm step depth
- superior tread 300 x 400 mm

Steps	length in m	de in m	in m	dimension	in kg
235.003	0,75	0,70	0,45	25x58	6
235.004	1,00	0,94	0,47	25x58	7
235.005	1,25	1,17	0,50	25x58	8
235.006	1,50	1,41	0,53	25x58	9
235.007	1,75	1,64	0,56	25x58	11
235.008	2,00	1,88	0,59	25x58	14
235.009	2,25	2,11	0,61	25x58	15
235.010	2,50	2,35	0,64	25x58	17
235.011	2,71	2,54	0,67	25x58	18
235.012	3,00	2,82	0,70	25x58	19

Prices on application

### Stepladder - unilateral access



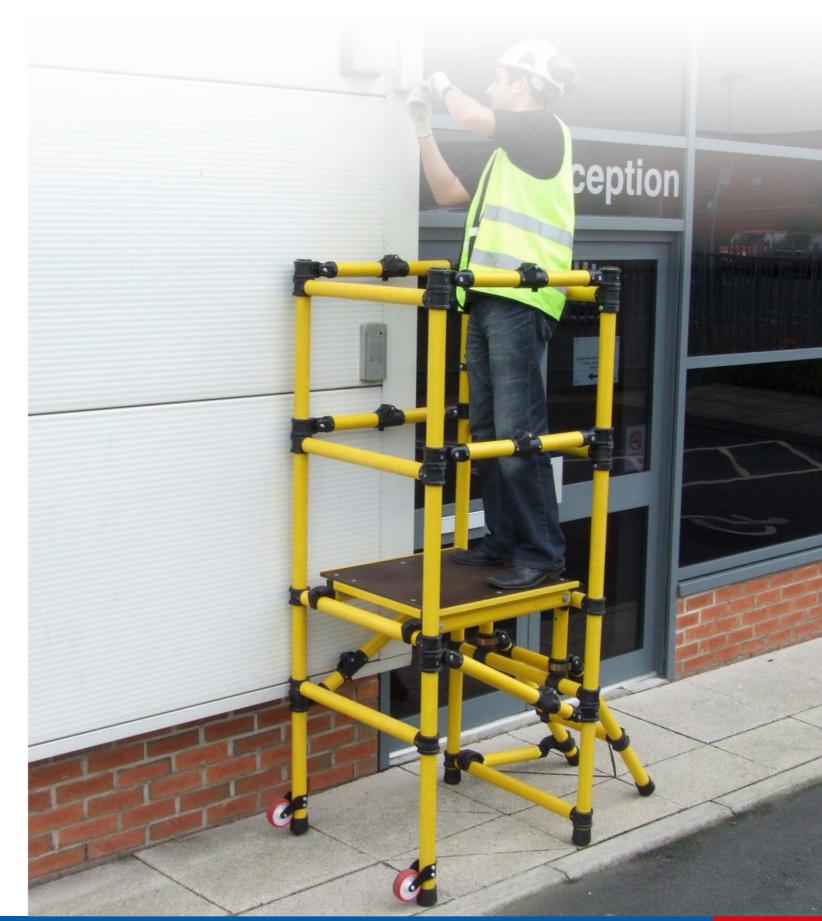
- ribbed steps with 88 mm step depth
- non-slip surface
- including tool tray

Typ Steps	Ladder- length in m	Platform- height in m	Bracket height in m	Width in m	Holm- dimension	Weight in kg
230.003	1,41	0,70	1,32	0,45	25x58	7
230.004	1,66	0,94	1,56	0,47	25x58	8
230.005	1,91	1,17	1,79	0,50	25x58	9
230.006	2,16	1,41	2,03	0,53	25x58	10
230.007	2,41	1,64	2,24	0,56	25x58	12
230.008	2,66	1,88	2,50	0,59	25x58	13
230.009	2,91	2,11	2,73	0,61	25x58	16
230.010	3,16	2,35	2,79	0,64	25x58	18
230.011	3,41	2,54	3,16	0,67	25x58	19
230.012	3,66	2,82	3,44	0,70	25x58	20

Prices on application

# FIBREGLASS PLATFORMS

# **Platforms & Platform stairways**

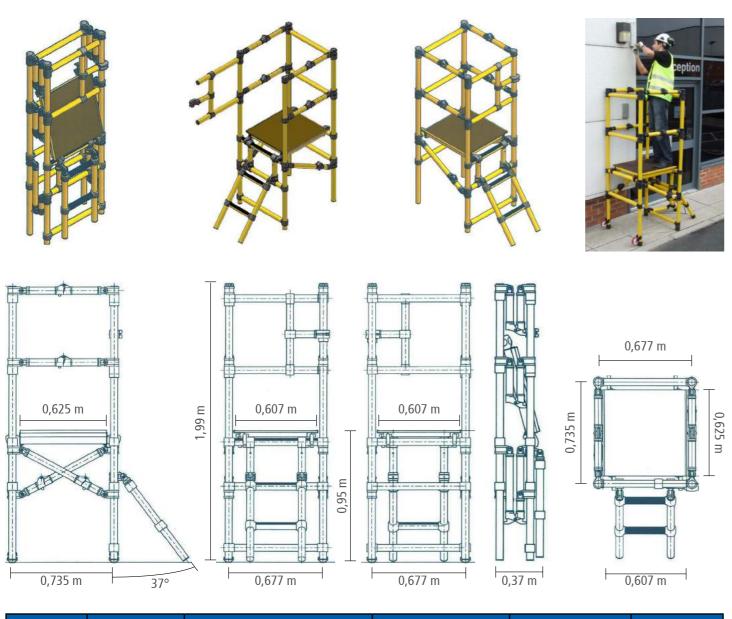


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# **Platforms & Platform stairways**

The standard platform produced of fibreglas elements is perfectly suitable for safe working in low height.

Due to the foldable construction the platform can easily be stowed, the low weight as well as the optionally available swivel castors facilitate the transportation and thanks to the compact design you can also work comfortable and safe in bottlenecks.



Working height	Stand height	Dimensions folded (LxWxH)	Dimensions opened (LxWxH)	Platformdimensions (LxB)	Weight
2,95 m	0,95 m	0,37 m x 0,75 m x 1,99 m	0,88 m x 0,75 m x 1,99 m	0,88 m x 0,75 m	ca. 39 kg



On request we produce custom-made fibreglass platforms and platform stairways. They are produced exactly and will be delivered as kit with assembly instructions.



# **COMPANY**

# **Company & Products**



## **Company & Products**

The AVV has got more than 30 years experience in selling, renting, training and offering services around every system solution of powered acces.

From working platforms over fibreglas scaffolds up to custom-made platforms our wide range includes everything that is needed by our customers for safe working at height.

Know-how, years of experience as well as competent and solution-oriented advice ensure a high customer satisfaction and a trusting cooperation.



### Working platforms for every occasion



TOLERA IZ



Our new, used and rented working platforms help our customers to reach their workplace at height safely.

From compact and manoeuvrable up to big working platforms with high reach we offer our customers a wide range of products:

- Vertical lifts
- Low level access working platforms
- Scissor lifts
- Tracked aerial platform
- Telescopic working platforms
- Truck mounted working platforms
- Special working platforms
- etc.

For improving occupational safety requirements for using ladders became more and more stricter.

With low level access working platforms you can work safely in low height from the first to the last second without taking any risk.

Our selection ranges from hand-moveable, entire mechanical up to self-propelled, electrically controllable low level access working platforms.

## **Everything from one source**

#### Sales

The sale of working platforms, fibreglass scaffolds and platforms to companys, institutions and private individuals is our competence for over 30 years.

Thanks to the well-trained eyes of our sales representatives and on-site product presentations we always find the right product for you. With our system solutions of powered acces you work safely in every height!



#### Rental

We are your partner if you need the right working platform at the right time in the right place.

Competent advice, reliable personnel and the latest lift technology distinguish our rental park.





#### Service

Qualified employees, fast reaction times and reliability characterize our service team.

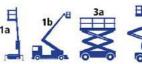
Repairs, services, UVV-check and tubechanges belong to our everyday tasks, which we will take over for you with pleasure.



#### **Training**

At our in-house, IPAF-certificated training center we perform theoretical and practical trainings of the driver's license for working platforms and yearly instructions. On request we although can perform all trainings at your company.







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For further consultation or making an appointment you can contact us via telephone +49 791 - 93 200 0 or e-mail to info@avvgmbh.de.

### **AVV Arbeitsbühnen-Vertriebs- und Vermietungs GmbH**

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