

Horizontal Anchorage System

SYSTEM AW1



About FABA™ anchorage systems

Applications

The FABA™-anchorage system is a „permanently installed system with a fixed horizontal guide rail“ according to EN 795, class D. The system enables the user to use high working places and walk ways without the risk of falling.

Principle of operation

The user is connected to the system by a traveller. The user has to wear a suitable and approved fall protection system. High risk of falling eliminated in this way. Up to three persons can use the anchorage system at the same time.

About us

More than 20 years of experience in the operation of FABA™ systems ensure that great care is taken in designing, planning and producing these systems.

Of course, we also offer customised products and special design.

Please contact us.



Elements

SYSTEM AW1

The anchorage system contains guide rails that are equipped with connectors to obtain the desired length. It is installed either on the side or over-head with special brackets. The installation of bends and junctions is possible as well.

- obtainable in steel, hot-dip galvanized or stainless steel (INOX 1.4571)
- guide rail measurements: width 68 mm, height 56 mm
- material thickness: 2,5 mm
- max. distance between brackets: 1500 mm



FABA™ anchorage system:
guide rail installed overhead



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Information about certification

The FABA™ anchorage system with a fixed horizontal guide rail is based on EN 795, class D.

FABA™ components are type-tested by a certified test centre:

DEKRA EXAM GmbH, Dinnendahlstraße 9,
44809 Bochum, Germany, notified body 0158
(Test and certification centre for personal
protective equipment in accordance with 89/686/EEC).

Certificate Number: 08/009

Quality assurance of the final product is also carried out by DEKRA EXAM GmbH.

Installation information

See installation guide of FABA™ anchorage systems.

Applicable regulations

Please observe the generally accepted technical standards when installing anchorage systems on buildings or structures; we refer in particular to the following:

89/686/EEC	Council Directive on Personal Protective Equipment
EN 795	Anchor devices
EN 354	Lanyards
EN 355	Energy absorbers
EN 358	Belts for work positioning and restraint and work positioning lanyards
EN 360	Retractable type fall arresters
EN 361	Full body harness
EN 362	Connectors
EN 363	Arrest systems
EN 364	Testing Procedures
EN 365	Instructions for use and marking
ArbSchG	Law on the implementation of protective measures to improve the safety and health of employees at work (Occupational safety act)
PSA-BV	Ordinance on safety and health protection during use of personal protective equipment at work (Ordinance on the use of PPE)
ArbStättV	Ordinance on working premises
BGR 198	Regulations for the use of personal protective equipment against fall from a height
BGR 199	Regulations for the use of personal protective equipment for arresting and rescuing.
BGG 906	Basic regulations for the selection, instruction and certification of competence of experts in personal protective equipment against falls from a height

Materials used

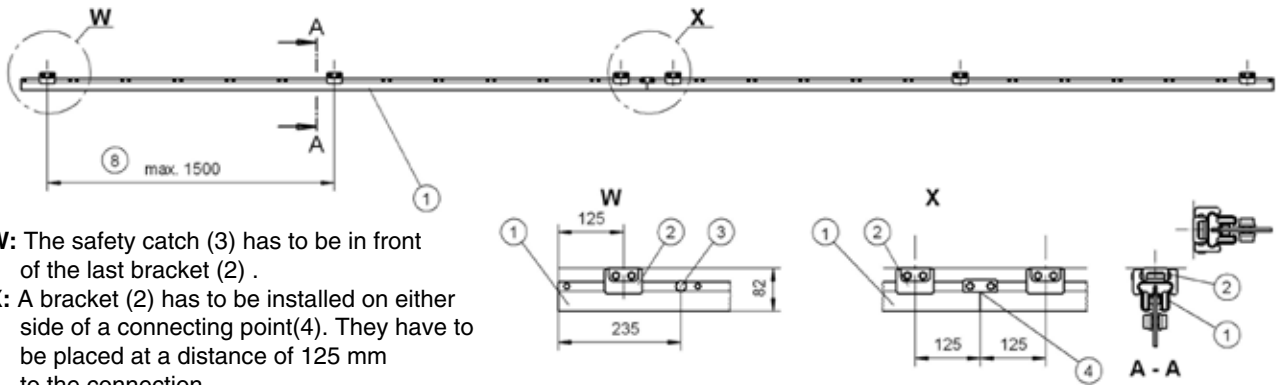
Anchorage systems are subject to the most diverse climatic conditions and must be able to bear static loads and guarantee fall protection even after many years of service.

- The elements are robust and suitable for everyday use.
- The hot-dip galvanized steel version is best suited to ordinary use.
- The stainless steel (1.4571) version is used when the anchorage system is exposed to aggressive gases, for example.
- The stainless steel elements are also bated
- Connectors and safety catches are only made of stainless steel.

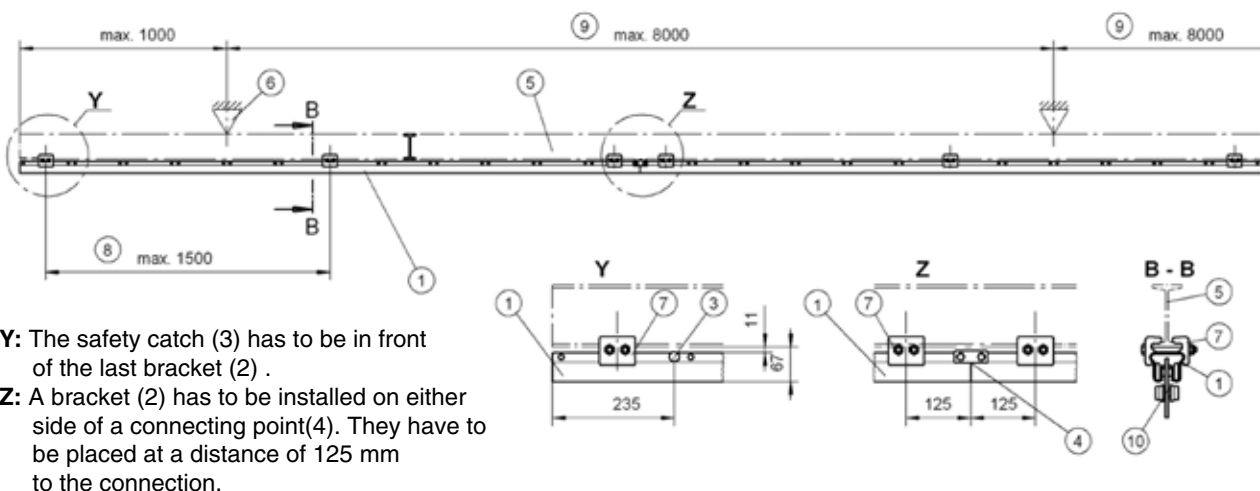
Installation planning aid

- The anchorage system has to be installed absolutely horizontally.
- It is best to install the system overhead, but you can also install it laterally as well, e.g. on a wall.
- The maximum distance between the brackets is 1.5 m
- The guide rail is clipped into the guide rails
- The guide rails have to be fitted with safety catches at all ends all the time
- If the traveller stays within the guide rail, it is necessary to ensure that the traveller stays at the access point.
- The adequate load-bearing capacity of the ground has to be proven. When analysing the structure, the load for the first person has to equal at least 10 kN. For any additional person a capacity of 1 kN has to be added. Therefore the load-bearing capacity of the ground for an anchorage system used by three persons has to be at least 12 kN.
- The fall protection system user's manual defines the necessary clearance beneath the anchorage system.
- Please ensure the necessary clearance below the system before using the fall protection system with the anchorage system. When falling, the user must not hit the ground.

System structure for a hanging or lateral system (standard)



System structure: hanging system with steel beam I-120 (special design)

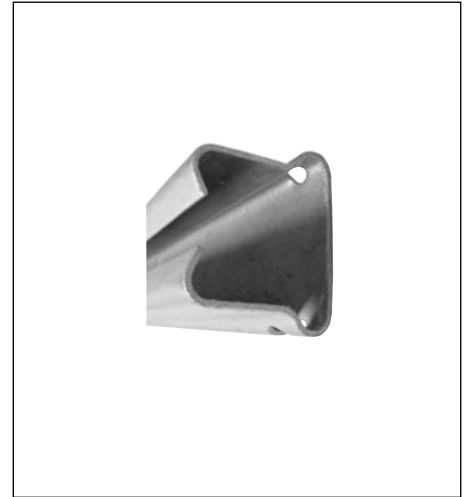
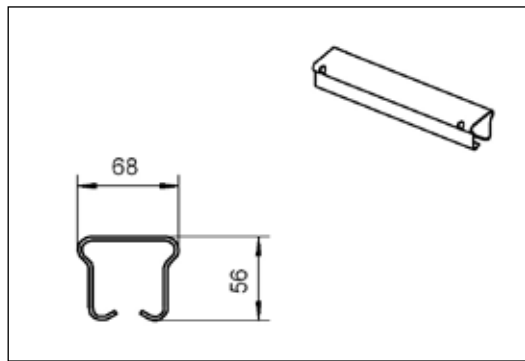


Description of elements

- | | |
|--|---|
| 1 guide rail | 6 Fixing point for substructure |
| 2 bracket for guide rail | 7 bracket for steel beam I-120 |
| 3 safety catch (fixed oder detachable) | 8 distance for brackets |
| 4 connector | 9 distance between supports of substructure |
| 5 steel beam (I-120) | 10 traveller |

Guide rail (straight)

The guide rail is made of 2,5 mm sectional steel. Every rail element is fitted with holes every 250 mm (twin bore) for the installation of connectors and safety catches. Rail elements can be cut in the middle of the twin bores. It is not necessary to drill new holes.



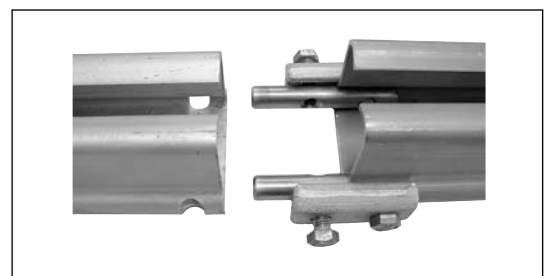
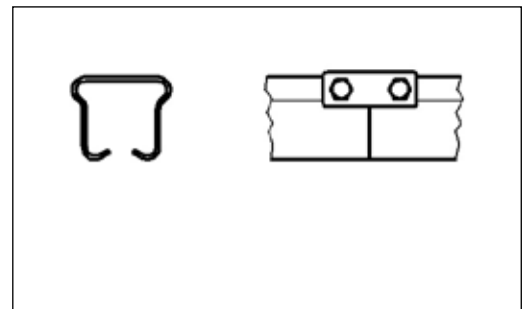
Code	Guide rail lenght	Material	Weight	Description
502 575	1000 mm	Steel, hot-dip galvanized	3,8 kg	Guide rail
502 585	2000 mm		7,6 kg	
502 595	3000 mm		11,4 kg	
518 715	6000 mm		22,7 kg	
502 615	1000 mm	INOX 1.4571	3,8 kg	
502 625	2000 mm		7,6 kg	
502 635	3000 mm		11,4 kg	

Other lenghts on request

Connector

The connectors are necessary to combine two or more guide rails.

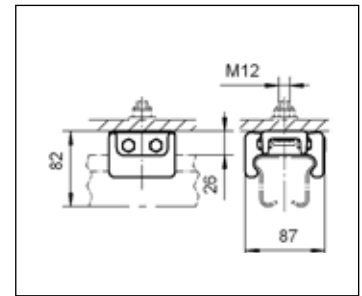
The set contains 2 bolt nuts, 4 screws M8 and 2 pressure pieces.



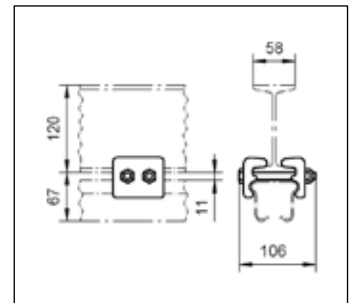
Code	Material	Weight	Description
507 307	INOX 1.4571	0,27 kg	Connector

Bracket
(push-through installation)

e.g. For installation on a steel substructure: The screw M12 is pushed through the bottom side of the bracket and the steel structure. Afterwards it is secured with a self-securing nut from the top.

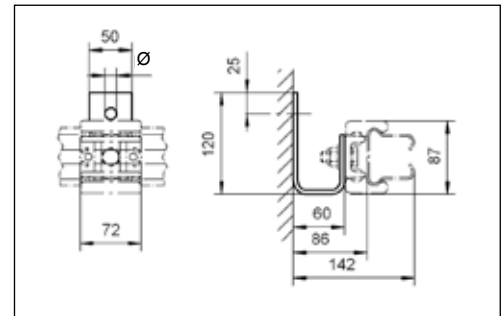

Bracket for steel beam I-120
(supporting structure for max. 8 m distance between supports)

For the installation on the lower flange of a steel beam I-120 according to EN 10024. The bracket is installed with two through bolts on the carrier section.


Fitting 1
(Lateral installation)

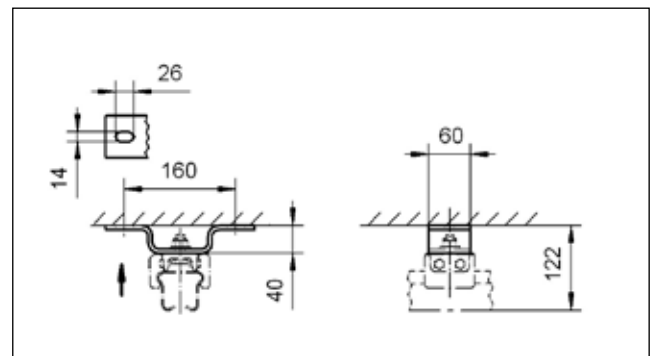
For the lateral installation on a concrete surface (load-bearing capacity min. B25).

Bracket and mounting material are sold separately.


Fitting 2
(Over-head installation)

For the installation on a concrete ceiling (load-bearing capacity min. B25).

Bracket and mounting material are sold separately.



Code	Information	Material	Weight	Description
503 645		steel, hot-dip galvanized	0,95 kg	Bracket
502 817		INOX 1.4571		
507 247	M12 x 35	INOX 1.4571	0,1 kg	Mounting material (nut, washer, screw)
502 887		steel, hot-dip galvanized	1,0 kg	Bracket for steel beam I-120
520 655	Ø 10,5 mm	steel, hot-dip galvanized	1,0 kg	Fitting 1
520 665	Ø 14 mm			
520 675	Ø 10,5 mm	INOX 1.4571	1,0 kg	Fitting 1
520 685	Ø 14 mm			
501 455	for Ø = 10,5 mm	INOX 1.4571	0,4 kg	Anchor bolt FZA 14 x 60
520 915	14 x 26	steel, hot-dip galvanized	1,0 kg	Fitting 2
520 925	14 x 26	INOX 1.4571		

Safety catch for guide rail

The guide rails have to be fitted with safety catches at all ends:

- Fixed safety catch (Fig.1) as an endstop. Removal of the traveller is impossible.
- Detachable safety catch (Fig.2): It is possible to either insert or remove the traveller at this point.

Fig. 1

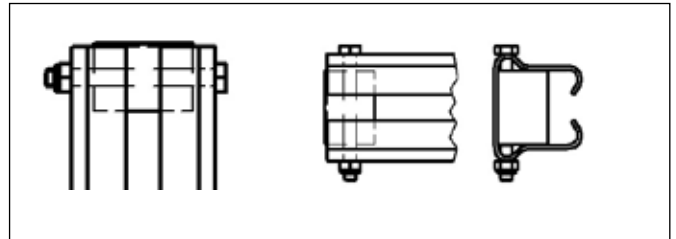
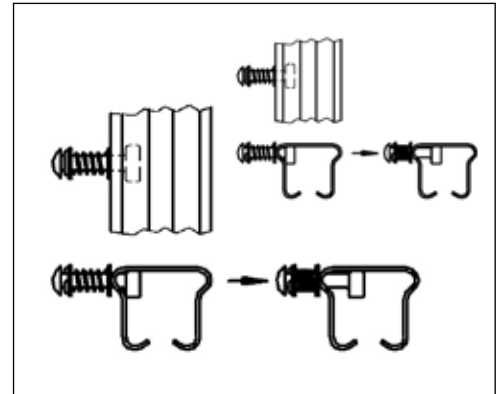


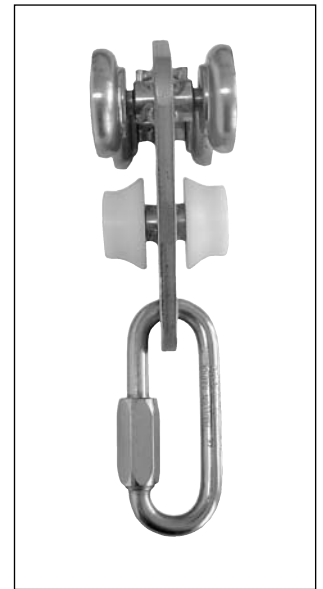
Fig. 2



Code	figure	Material	Weight	Description
508 947	1	INOX 1.4571	0,1 kg	Fixed safety catch
508 957	2	INOX 1.4571	0,1 kg	Detachable safety catch

Traveller

The traveller W3 is inserted into the system at the end of the guide rail and moves along with the user as he walks along the anchorage system. It is used as a follow-on attachment point for the fall protection system in accordance with EN 363 on arrest systems.

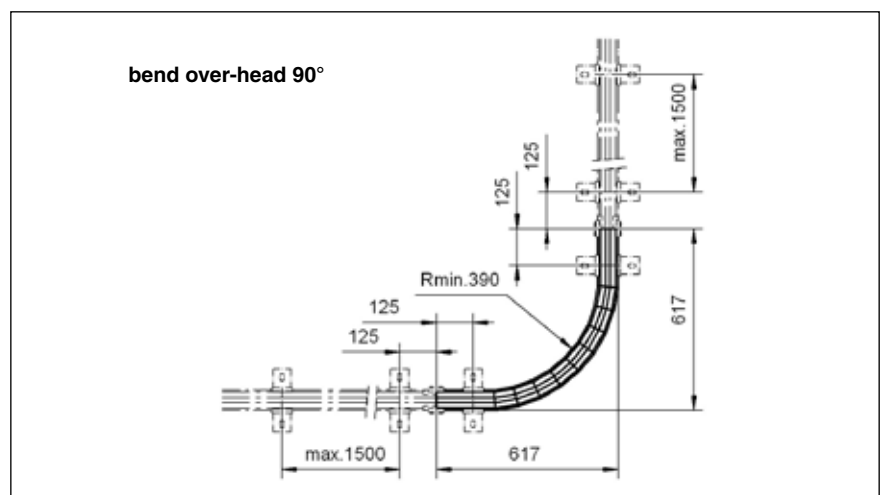
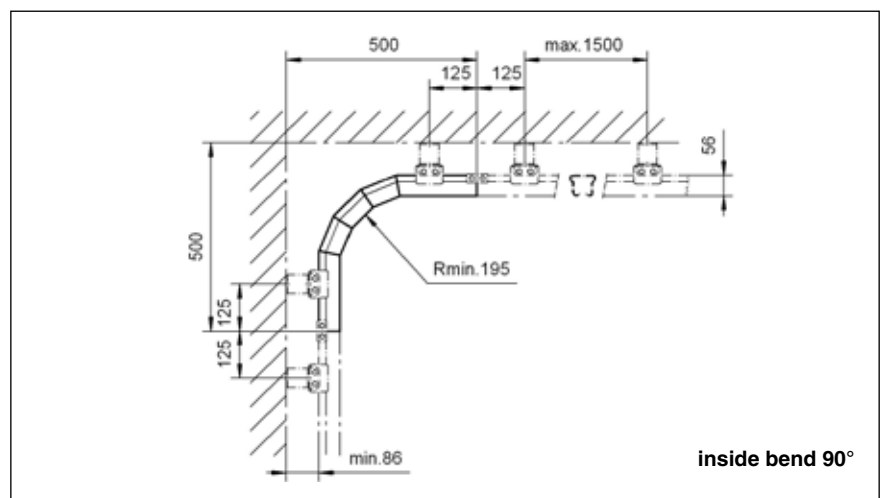
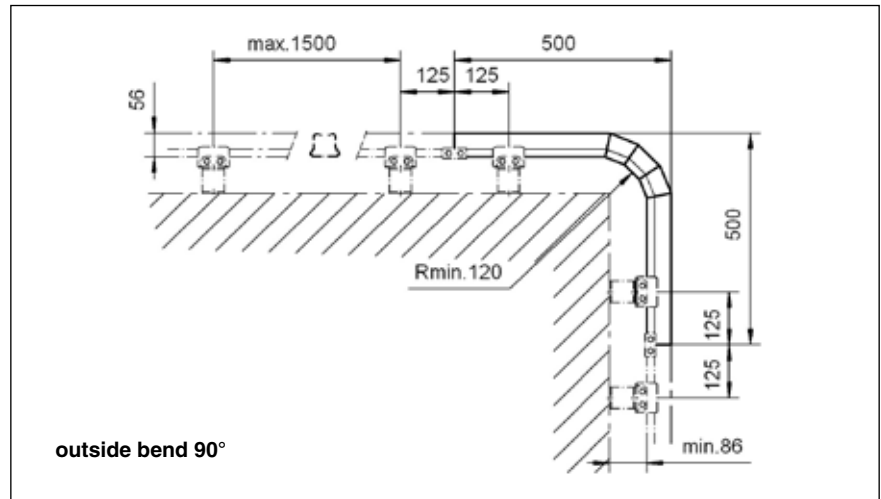


Code	Material	Weight	Description
504 188	hot-dip galvanized, INOX 1.4571, plastic	0,5 kg	Traveller W3

Guide rails with bends 90°

The shown 90° bends show the smallest possible radii. The bends are welded in one piece. The 90° bends are joined via connectors to the guide rails.

Brackets and connectors are sold separately.



Code	Material	Weight	Description
513 318	Hot-dip galvanized	3,6 kg	Outside bend
513 328	INOX, 1.4571		
513 338	Hot-dip galvanized	2,8 kg	Inside bend
513 348	INOX, 1.4571		
513 298	Hot-dip galvanized	4 kg	Bend over-head
513 308	INOX, 1.4571		

Guide rails with other bends

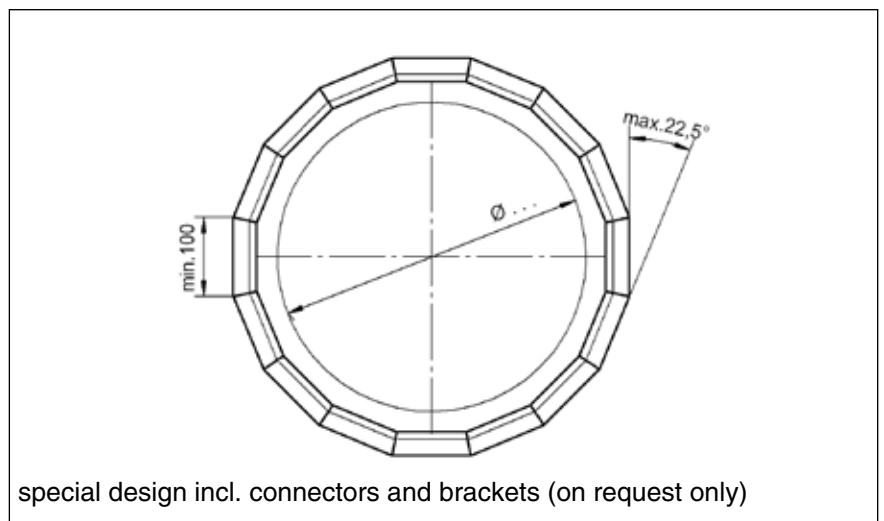
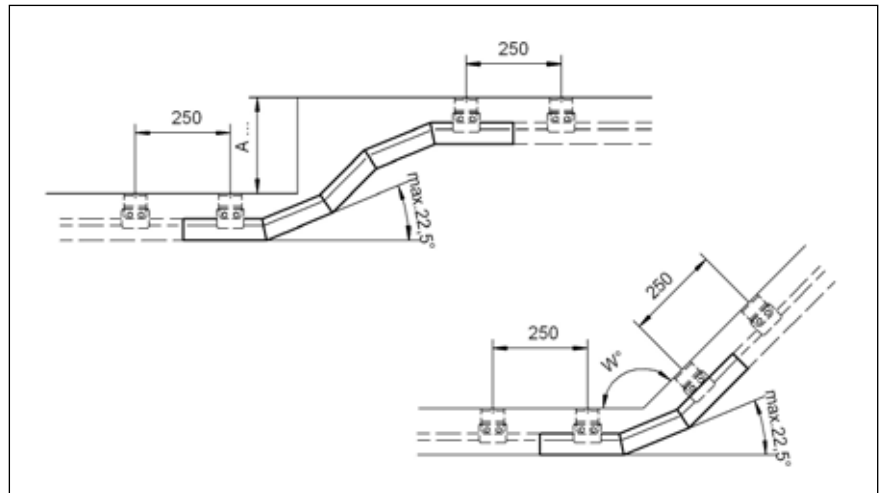
The following measurements are required for the individual adjustment of the bends:

A = Distance

W = angle

Ø = diameter (min. 500 mm for outside bends and 1000 mm for inside bends)

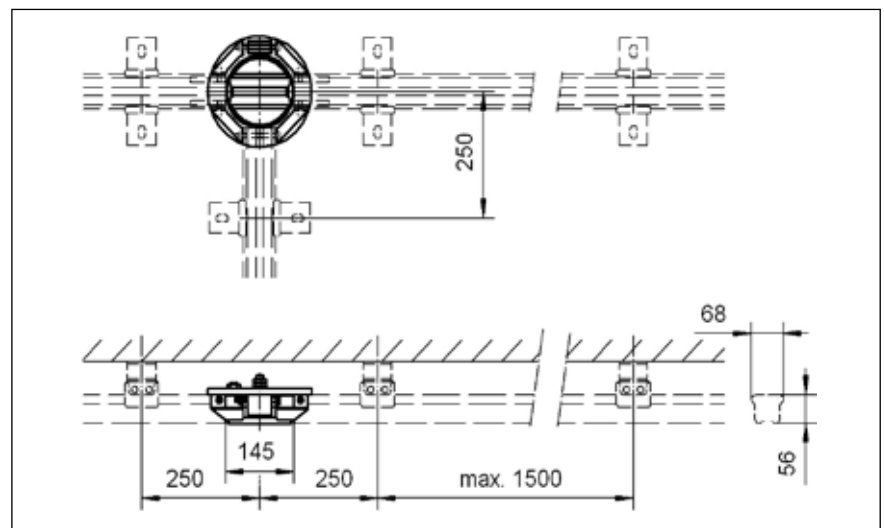
The bends take order of precedence.
The bends are welded in one piece.



Junction

The junction is needed to join two guide rails which are installed at right angles. It has to be installed overhead. The junction has to be within reach of the user. The traveler is inserted into the junction and after that the junction is turned in the desired direction manually.

The connection points without a guide rail must be equipped with fixed safety catches.



The above mentioned elements are special designs and only available on request.



SYSTEM AL 2

- Available as complete ladder or as fall protection rail only
- In anodised aluminium
- Climbing protection profile dimensions:
width 48 mm, height 65 mm
- Material thickness 3 mm
- Catchment spacing for the arresting device 70 mm
- Rung spacing 280 mm
- Max. support bracket distance 1680 mm
- Fall prevention shuttle also suitable for system A 12
- Also available as mobile, relocatable system

Fall protection FABATM climbing protection



Tractel



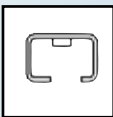
SYSTEM A 11

- Launch of the first ever fall protection system on the German market in 1965
- Available as complete ladder or as fall protection rail only
- In hot-galvanized steel or stainless steel
- Climbing protection profile dimensions:
width 68 mm, height 56 mm
- Material thickness 2.5 mm
- Catchment spacing for the arresting device 140 mm
- Rung spacing 280 mm

Fall protection FABATM climbing protection



Tractel



SYSTEM A 12

- Available as complete ladder or as fall protection rail only
- In hot-galvanized steel or stainless steel
- Climbing protection profile dimensions: width 48 mm, height 32 mm
- Material thickness 3 mm
- Catchment spacing for the arresting device 40 mm
- Rung spacing 280 mm
- Max. support bracket distance:
Ladder: 1,400 mm / Rail: 1,960 mm
- Fall prevention device also suitable for system AL 2
- The system can also be used for confined space access
- Max. support bracket distance 1960 mm
- Fall prevention shuttle also suitable for horizontal anchor device
- The system can also be used for confined space access

Fall protection FABATM climbing protection



Tractel



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