



COVEX DB750 DB500

Roofs

for everybody





OLAN - is the one of the fastest-growing companies in the region of scaffolding and formwork branch in the small and medium-sized enterprises. It was founded in late 2006 by the merger of the Lithuanian, Polish and Norwegian capital with years of experience in the production of steel and aluminium and its applications for the construction industry. OLAN company started in January 2007, reaching an annual turnover of 13,5 million PLN (in 2012). It was resulted by a successful export to countries such as Norway, Germany and Russia. The OLAN company's objective is to cooperate in the production of steel and aluminium constructions in order to meet the huge demand dynamically developing in the Polish and European market. OLAN offers a wide range of high quality products, professional services and technical ideas necessary to achieve the most ingenious solutions in the wide construction industry.

Openness to the needs of the customer and the high quality of our products and services are trademarks and one of the main priorities in the activities of our company. With knowledge of the market and the needs of modern construction industry, we have a wide range of fitted solutions to solve any problems that occur on construction sites. In addition to this OLAN offers a wide range of services starting from consulting through individual design, ending with manufacturing of special constructions and help with their implementation.

People are the foundation of the company and its undisputed capital. The company has excellent engineers and skilled welders and fitters with many years of experience gained in the most reputable manufacturing companies, located in the region. A significant advantage is the rich, over-twenty-year-long experience of the company's management in the scaffolding and formwork and lightweight constructions welded from aluminium. OLAN serves its customers with comprehensive knowledge and professional approach in the implementation of solutions in the field of facade, modular, mobile scaffolding, special constructions made of scaffolding and aluminium weldments.

A Few words on roofs

The roofs are provisional objects that are used wherever a structure of large area is necessary to be mounted within a short period of time. Thanks to a quick erection, no permanent connection with the ground and special permit, our structures are used not only in the building industry but in entertainment, sports, recreation and trade sectors as well.

COVEX DB750 and COVEX DB500 roof systems create a possibility to construct halls and warehouses, organize outdoor events and protect high historical value excavations at archaeological sites against destructive operations of atmospheric factors.

A roof system is designed and made of high-strength, lightweight aluminium alloys and a modular structure allows reducing production costs and forming large areas adapted to individual needs of our customers.

SYSTEM ADVANTAGES

- › well-consider, Norwegian structure
- › cooperation with any scaffolding system
- › little weight of individual elements
- › quick assembly and disassembly
- › possibility of manual assembly
- › simple localisation change
- › competitive prices

APPLICATION AREAS

- › seasonal halls and warehouses
- › outdoor events requiring protection against impact of atmospheric conditions
- › construction sites and shipyards requiring temporal protection against bad weather
- › high historical and scientific value excavations
- › sports objects (sports hall, ice fields, skate parks, fair objects, commercial objects) etc.

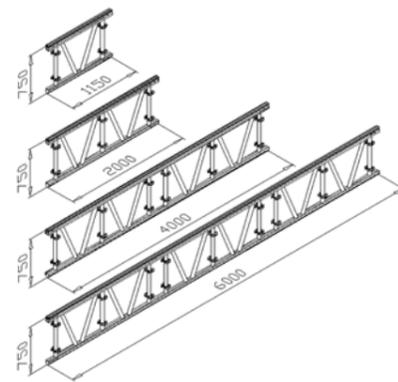


Elements of COVEX DB750 system

1. Aluminium girder DB750

A basic element of roof structure. A properly matched set of girders, mounted quickly by means of girder connectors OCS-0001 and protections MZ 014, serves to form a single roof girder of 30m long. The girder structure is made of high-strength, special aluminium profiles, adapted to mount diagonal braces, railguards and other supplementary elements and to fit a keder tilt.

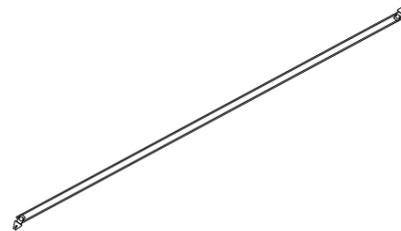
Index	Dimensions (m)	Weight (kg)
OCS-01600	6,00	55,82
OCS-01400	4,00	37,21
OCS-01200	2,00	18,61
OCS-01115	1,15	10,90



2. Aluminium diagonal brace DB750

This element gives a transverse rigidity to the roof structure. A high rigidity aluminium profile is equipped with special zinc-plated steel heads with wedges at the ends, mounted in a rotary manner and adapting to the mounting node. The diagonal brace is mounted to the girder by putting the heads into proper places of girder plates and inserting the wedges and hammering them. Different diagonal brace lengths allow using a solution fitted to the needs.

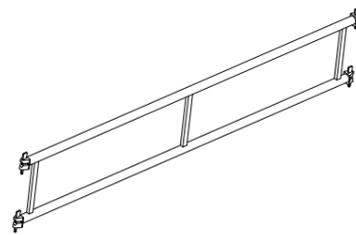
Index	Dimensions (m)	Weight (kg)
OCS-02307	3,07 x 0,85	5,45
OCS-02300	3,00 x 0,85	5,42
OCS-02257	2,57 x 0,85	4,80
OCS-02250	2,50 x 0,85	4,75
OCS-02207	2,07 x 0,85	4,45
OCS-02190	1,90 x 0,85	4,32
OCS-02160	1,60 x 0,85	3,74
OCS-02157	1,57 x 0,85	3,60
OCS-02120	1,20 x 0,85	3,29



3. Aluminium double railguard DB750

This element serves to settle and keep the girders of the roof structure in a proper span. Additionally, the element gives initial rigidity to the roof. An aluminium frame is equipped with four zinc-plated steel heads with wedges at the ends. The railguards are mounted by inserting the heads into proper places of girder plates, inserting the wedges and hammering them. Different railguard lengths are adapted to the customer's needs and fitted to the diagonal brace lengths.

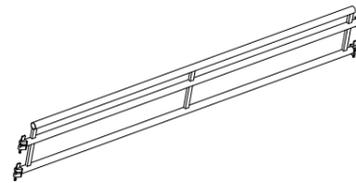
Index	Dimensions (m)	Weight (kg)
OCS-03307	3,07 x 0,40	8,90
OCS-03300	3,00 x 0,40	8,82
OCS-03257	2,57 x 0,40	7,87
OCS-03250	2,50 x 0,40	7,79
OCS-03207	2,07 x 0,40	7,60
OCS-03190	1,90 x 0,40	6,80
OCS-03160	1,60 x 0,40	5,90
OCS-03157	1,57 x 0,40	5,80
OCS-03120	1,20 x 0,40	5,13



4. Aluminium double railguard with top DB750

This element serves to settle girders in a proper span. Additionally, the railguard with top keeps the covering on a structural bend of the roof slope in the connection preventing formation of pockets to collect water or snow. The tops are equipped with plastic plugs preventing the covering from damage.

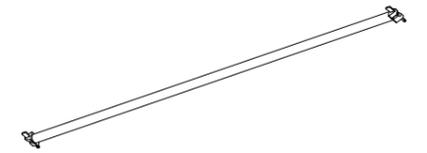
Index	Dimensions (m)	Weight (kg)
OCS-04307	3,07 x 0,60	12,20
OCS-04300	3,00 x 0,60	11,35
OCS-04257	2,57 x 0,60	10,70
OCS-04250	2,50 x 0,60	9,79
OCS-04207	2,07 x 0,60	9,15
OCS-04190	1,90 x 0,60	8,28
OCS-04160	1,60 x 0,60	7,36
OCS-04157	1,57 x 0,60	7,30
OCS-04120	1,20 x 0,60	6,22
OCS-04100	1,00 x 0,60	5,40



5. Aluminium single railguard DB750

This element serves – like double railguards – to settle girders in a proper location. An aluminium pipe is equipped with steel zinc-plated heads with wedges at the ends. The element is used at the length between the girders below 3,0m.

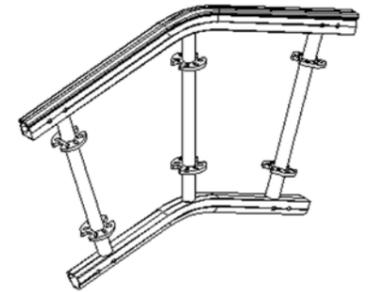
Index	Dimensions (m)	Weight (kg)
OCS-05305	3,00	4,42
OCS-05250	2,50	3,90
OCS-05190	1,90	3,39
OCS-05160	1,60	3,11
OCS-05120	1,20	2,73
OCS-05100	1,00	2,19
OCS-05072	0,72	1,93
OCS-05050	0,50	1,72



6. Aluminium top girder DB750

An additional element for OCS-1xxx series girders, mounted on the top of the roof, allows forming a roof slope bend at an angle of 18°. It is also installed by means of girder connectors OCS-0001 and connector protections MZ014.

Index	Dimensions (m)	Weight (kg)
OCS-01005	0,97 x 0,75	11,80



7. Aluminium eaves girder DB750

The eaves girder is mounted at the roof ends when the roof is installed on the scaffold and fulfils a role of eaves. It protrudes beyond the scaffold preventing rain from penetrating under the roof structure. The eaves girder regulates a free flow of water from the roof.

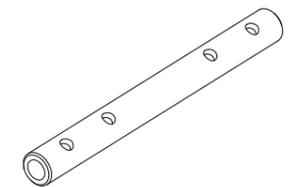
Index	Dimensions (m)	Weight (kg)
OCS-01006	0,85 x 0,75	8,70



8. Aluminium girder connector DB750

This element is made of thick-wall aluminium pipe with holes allowing inserting a connector protection MZ014.

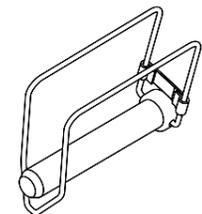
Index	Dimensions (m)	Weight (kg)
OCS-00001	0,50	1,20



9. Connector protection MZ014

This element is made of steel and zinc-plated. It serves to protect quickly girder connections. Four protections are used for one connector OCS-0001.

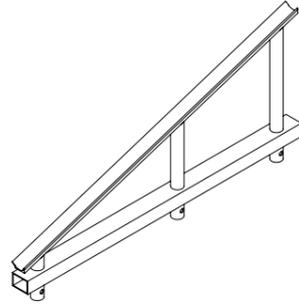
Index	Dimensions (m)	Weight (kg)
OCS-00005	0,07	0,06



10. Roof bracket FOX 18°

The element is used for mounting a roof slope on scaffolding FOX structure with a 1250mm spacing. The assembly of slopes on the bracket eliminates minor assembly faults of up to 300mm. The slope is assembled with sheet set OCS-00021 or double-reeled clamp OCS-00022.

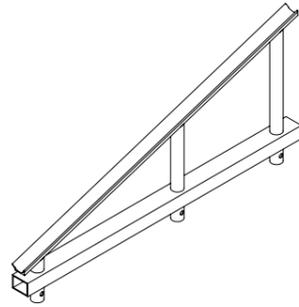
Index	Dimensions (m)	Weight (kg)
OCS-00010	0,77	10,40



11. Roof bracket FOX/EURO PLUS. 18°

The element is used for founding a roof slope on a scaffolding structure. The spacing of vertical pipes is adjusted to the spacing of pipes in facade scaffolding frame OLAN EURO PLUS 0.73m (ALTRAD, LAYHER) and scaffolding FOX with a 1250mm spacing. The assembly of slopes on the bracket eliminates minor assembly faults of up to 300mm. The slope is assembled with sheet set OCS-00021 or double-reeled clamp OCS-00022.

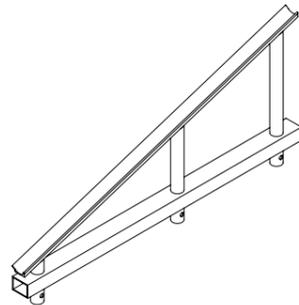
Index	Dimensions (m)	Weight (kg)
OCS-00012	0,77	10,40



12. Facade roof bracket. 18°

The element is used for founding a roof slope on a scaffolding structure. The spacing of vertical pipes is adjusted to the spacing of pipes in scaffolding frame OLAN EURO PLUS with a 0.73m and 1.09m spacing. The assembly of slopes on the bracket eliminates minor assembly faults of up to 300mm. The slope is assembled with sheet set OCS-00021 or double-reeled clamp OCS-00022.

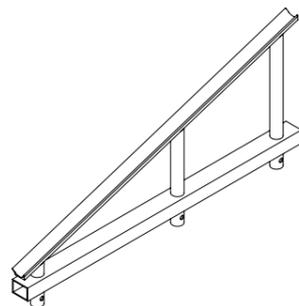
Index	Dimensions (m)	Weight (kg)
OCS-00013	0,77	10,40



13. Roof bracket PLETTAC 18°

The element is used for founding a roof slope on a scaffolding structure. The spacing of vertical pipes is adjusted to the spacing of pipes in scaffolding frame PLETTAC with a 0.74m spacing. The assembly of slopes on the bracket eliminates minor assembly faults of up to 300mm. The slope is assembled with sheet set OCS-00021 or double-reeled clamp OCS-00022.

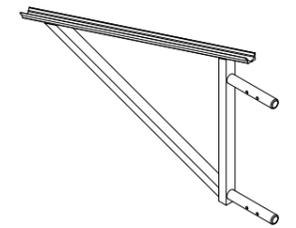
Index	Dimensions (m)	Weight (kg)
OCS-00016	0,77	10,40



14. Top support 18° DB750

A top support is used to strengthen the roof structure when we want to achieve a hall span up to 30m. Strengthening girders can be used to increase the roof span. The top support is used together with OCS-1xxx series girders.

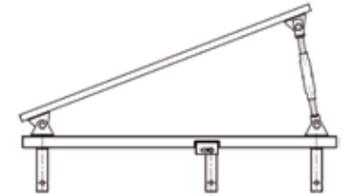
Index	Dimensions (m)	Weight (kg)
OCS-00009	0,73	9,10



15. Movable support DB750

It serves to settle a roof slope on the scaffolding structure and allows regulating a roof slope angle from 15 to 21 degrees. The support is adapted to any type of frames within the regulation range of 0,68-0,77m.

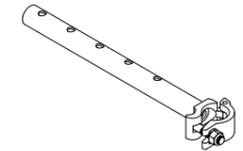
Index	Dimensions (m)	Weight (kg)
OCS-06000	1,43	12,10



16. Pipe connector with joint DB750

A steel, zinc-plated element with a half of scaffolding joint. The connector allows fastening a pipe encasing the roof in the eaves part. The pipe connector is mounted by inserting into the eaves girder OCS-1006 and locking by means of two connector protections MZ014.

Index	Dimensions (m)	Weight (kg)
OCS-00004	0,42	2,2



17. Tilt

The tilt is made of high-strength fabric 1100 dtex, with basic weight of 650 g/m², PVC-coated, with sized PCV-rope to insert into girder profile edges. Available colours: black, blue, green, grey, grizzled.

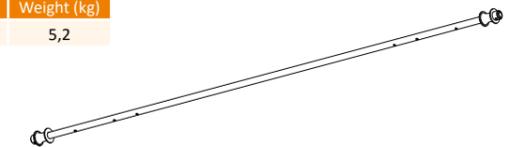
Index	Basic weight
OCS-7498xx	650g/m ²



18. Mounting beam

An ancillary element for mounting the keder tilt. It consists of a steel, zinc-plated pipe with plastic rolls. The beam is inserted into the end tilt pocket and pulled by lines along the roof slope in order to insert it evenly into the girder edges.

Index	Dimensions (m)	Weight (kg)
OCS-00002	3,05	5,2



19. Initial steel element

The element is used for founding a tent hall completely made of DB 750/ DB 500 on an adjustable base.

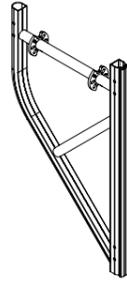
Index	Dimensions (m)	Weight (kg)
OCS-48500	0,35	2,44



20. Initial girder

The initial girder serves as an element of roofing in tent hall structures fully made of DB 750 components. It can be used together with initial element OCS-48500 and adjustable base.

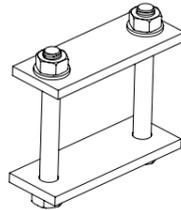
Index	Dimensions (m)	Weight (kg)
OCS-01007	0,85 x 0,75	8,70



20. Clamp – sheet set

The sheet set is used for joining a roof bracket with a roof girder. Each bracket requires the use of two sheet sets.

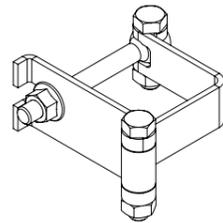
Index	Wymiary (m)	Weight (kg)
OCS-00021	0,20 x 0,05	1,11



21. Double-reeled clamp

The clamp is used to fasten a roof girder to a roof bracket. The item can be used interchangeably with OCS-00021.

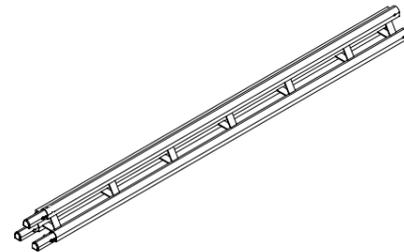
Index	Dimensions (m)	Weight (kg)
OCS-00022	0,20 x 0,20	0,70



22. Triple beam MOB

The element serves as a runway beam for sliding a convertible roof. It is used together with the following catalogue components that are delivered in the same set. Connectors and protections provided in the set make it possible to join the beam segments in a single roof runway beam.

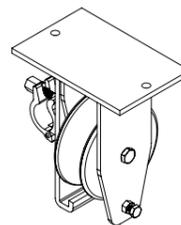
Index	Dimensions (m)	Weight (kg)
OCS-00020	2,15	20,80
OCS-00030	3,15	30,30



23. Convertible roof wheel

The component is used for moving the roof along a runway made of items OCS-00020 and OCS-00030. The wheel is made of high-quality material; it is equipped with secured ball bearings. The wheel yoke serves for mounting the wheel on frame OCS-00035. It does not require any maintenance.

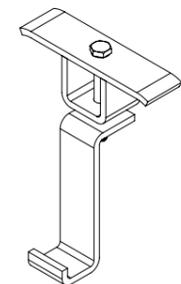
Index	Dimensions (m)	Weight (kg)
OCS-00031	0,35 x 0,35 x 0,50	11,92



24. Triple beam block

The element is used for securing a convertible roof against its detachment from the runway beam. It is mounted on convertible roof frame OCS-00035.

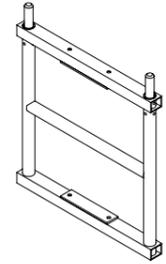
Index	Dimensions (m)	Weight (kg)
OCS-00032	0,20 x 0,30	2,50



25. Convertible roof frame

The frame serves as a middle element between bracket OCS-00040 and a convertible roof wheel. Its solid aluminium construction ensures the stability and reliability of convertible roofing.

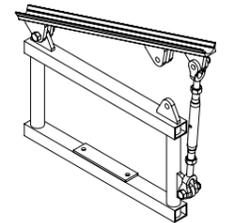
Index	Dimensions (m)	Weight (kg)
OCS-00035	0,80 x 0,80	9,50



26. Adjustable bracket

It is a special bracket for a convertible roof. An adjustment screw makes it possible to eliminate faults and burden of the roof, and mount the girder on the bracket.

Index	Dimensions (m)	Weight (kg)
OCS-00040	0,80	22,50

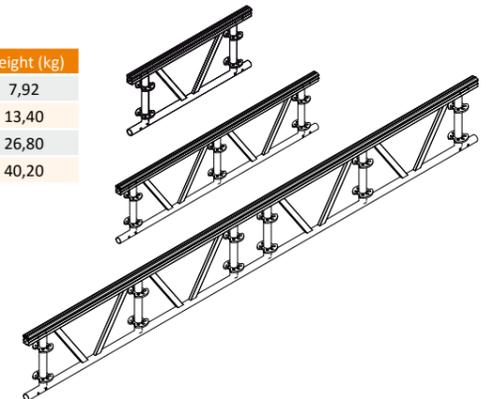


Elements of COVEX DB500 system

1. Aluminium girder DB500

A basic element of roof structure. A properly matched set of girders, mounted by means of two girder connectors (COV-1007 and COV-1017) and connector protections MZ 014, serves to form a single roof girder of 18m long. The girder structure is made of high-strength, special aluminium profiles, adapted to mount diagonal braces, railguards and other supplementary elements and to fit a keder tilt.

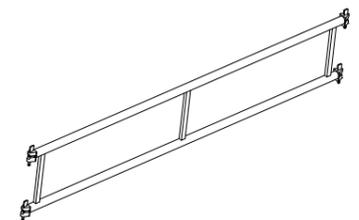
Index	Dimensions (m)	Weight (kg)
COV-01115	1,15	7,92
COV-01200	2,0	13,40
COV-01400	4,0	26,80
COV-01600	6,0	40,20



2. Aluminium double railguard DB500

This element serves to settle and keep the girders of the roof structure in a proper span. Additionally, the element gives initial rigidity to the roof. An aluminium frame is equipped with four zinc-plated steel heads with wedges at the ends. The railguards are mounted by inserting the heads into proper places of girder plates, inserting the wedges and hammering them. Different railguard lengths are adapted to the customer's needs and fitted to the diagonal brace lengths.

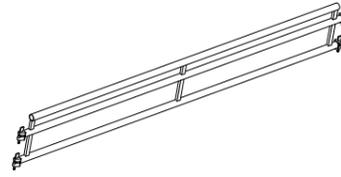
Index	Dimensions (m)	Weight (kg)
COV-03307	3,07 x 0,40	8,90
COV-03305	3,00 x 0,40	8,82
COV-03257	2,57 x 0,40	7,87
COV-03250	2,50 x 0,40	7,79
COV-03207	2,07 x 0,40	7,60
COV-03196	1,90 x 0,40	6,80
COV-03165	1,60 x 0,40	5,90
COV-03157	1,57 x 0,40	5,80
COV-03125	1,20 x 0,40	5,13
COV-03105	1,20 x 0,40	5,13



3. Aluminium double railguard with top DB500

This element serves to settle girders in a proper span. Additionally, the railguard with top keeps the covering on a structural bend of the roof slope in the connection preventing formation of pockets to collect water or snow. The tops are equipped with plastic plugs preventing the covering from damage.

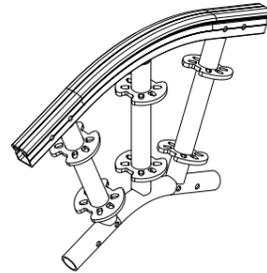
Index	Dimensions (m)	Weight (kg)
COV-04307	3,07 x 0,60	12,20
COV-04305	3,00 x 0,60	11,35
COV-04257	2,57 x 0,60	10,70
COV-04250	2,50 x 0,60	9,79
COV-04207	2,07 x 0,60	9,15
COV-04190	1,90 x 0,60	8,28
COV-04165	1,60 x 0,60	7,36
COV-04157	1,57 x 0,60	7,30
COV-04120	1,20 x 0,60	6,22
COV-04105	1,00 x 0,60	5,40



4. Aluminium top girder 22° DB500

An additional element for COV-1xxx series girders, mounted on the top of the roof, allows forming a roof slope bend at an angle of 22°. It is installed by means of girder connectors (COV-1007 and COV-1017) and connector protections MZ 014.

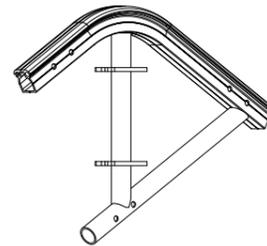
Index	Dimensions (m)	Weight (kg)
COV-01005	0,97 x 0,5	9,23



5. Aluminium eaves girder DB500

The eaves girder is mounted at the roof ends when the roof is installed on the scaffold and fulfils a role of eaves. It protrudes beyond the scaffold preventing rain from penetrating under the roof structure. The eaves girder regulates a free flow of water from the roof.

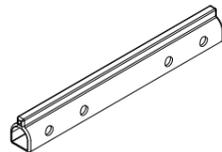
Index	Dimensions (m)	Weight (kg)
COV-01006	0,85 x 0,50	7,03



6. Girder connector DB500 (profile)

This element is made of thick-wall aluminium profile with holes allowing inserting a protection OSC-0001.

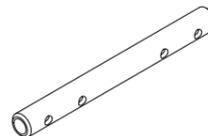
Index	Dimensions (m)	Weight (kg)
COV-01017	0,40	0,70



7. Girder connector DB500 (pipe)

This element is made of thick-wall aluminium pipe with holes allowing inserting a protection OSC-0001.

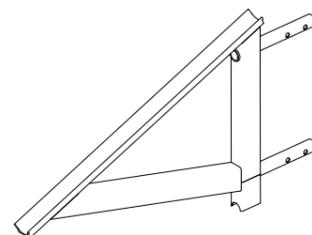
Index	Dimensions (m)	Weight (kg)
COV-01007	0,40	0,80



8. Top support 22° DB500

A top support is used to strengthen the roof structure when we want to achieve a hall span up to 18m. Strengthening girders can be used to increase the roof span. The top support is used together with COV-1xxx series girders.

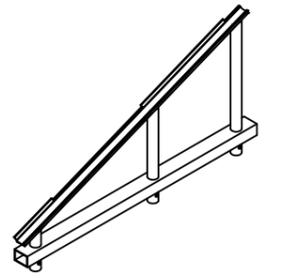
Index	Dimensions (m)	Weight (kg)
COV-00009	0,73	6,00



9. Roof support 22° DB750

This element serves to settle a roof slope on the scaffolding structure. The span of vertical pipes can be adapted to any scaffold. The installation of the roof slope on the support allows liquidating small mounting errors of the scaffold up to 300mm. The roof slope is mounted to the support by means of M12 bolts and special holders.

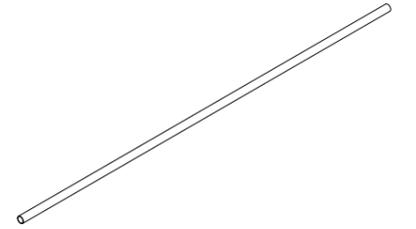
Index	Dimensions (m)	Weight (kg)
COV-00015	0,77	10,40
COV-00016	0,77	10,40



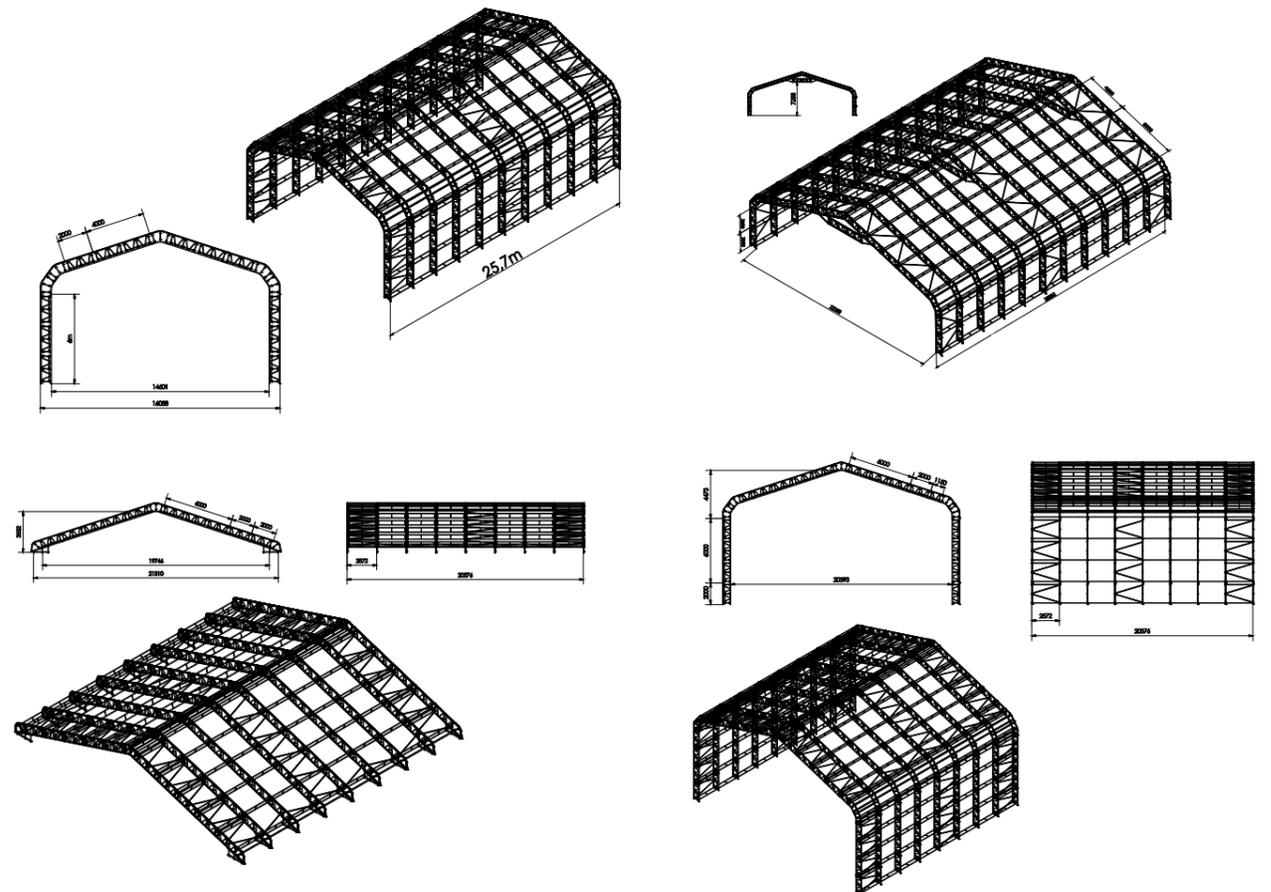
10. Tilt stretching pipe

It serves to stretch a tilt on the roof structure.

Index	Dimensions (m)	Weight (kg)
COV-08115	1,15	4,00
COV-08120	1,20	4,30
COV-08160	1,60	5,70
COV-08190	1,90	6,80
COV-08207	2,07	7,50
COV-08250	2,50	8,90
COV-08257	2,57	9,10
COV-08300	3,00	10,70
COV-08307	3,07	10,90

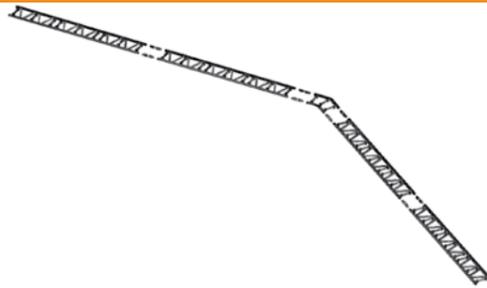


COVEX system roofs



Installation guidelines

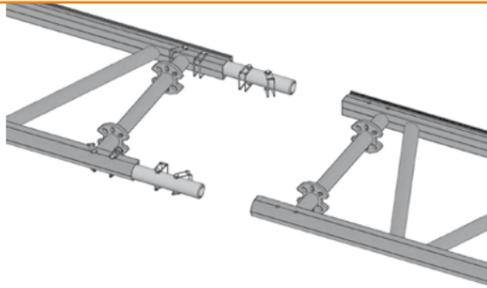
1 Arrange parts of one girder on an even surface.



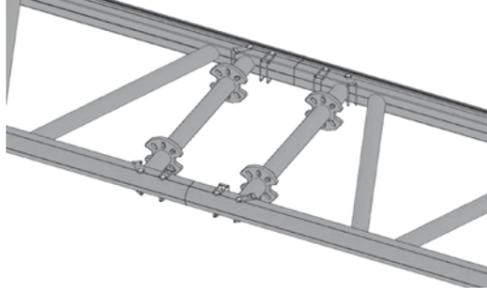
2 Mount parts of used connectors OCS-0001 and connector protections MZ 014 OCS-0005.



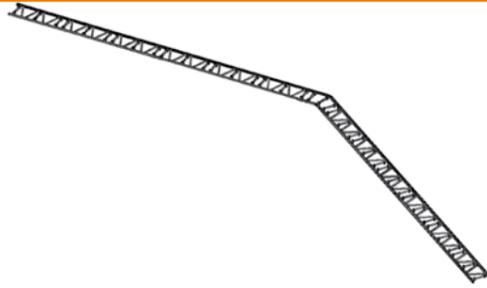
3 Details of connection.



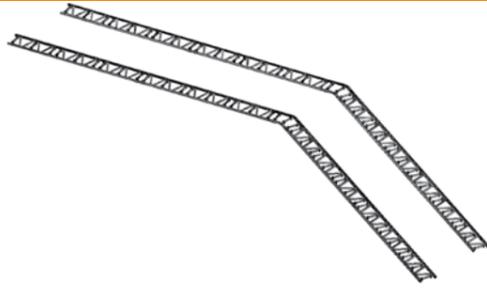
4 Two girder sections connected.



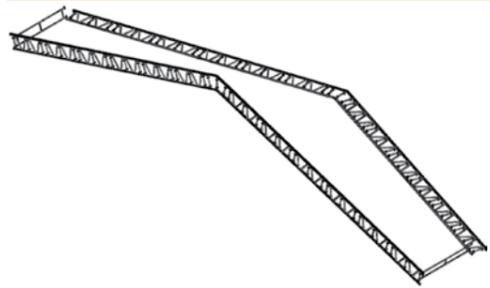
5 All parts connected to the girder.



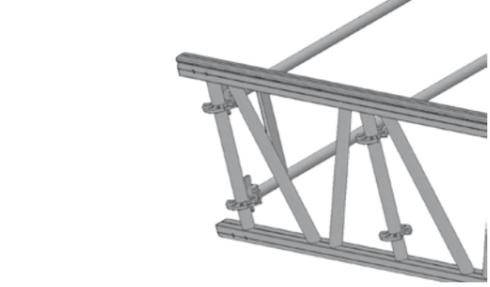
6 Connect the next girder.



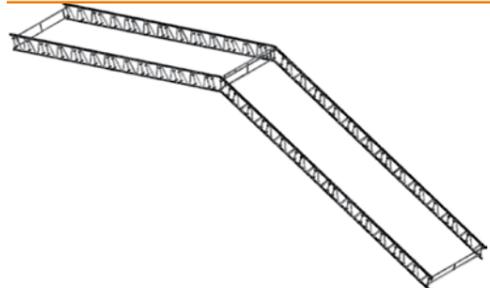
7 Mount double railguards.



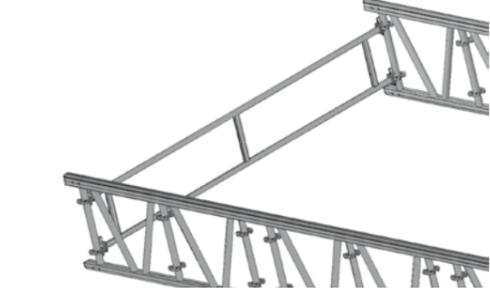
8 Railguards connected.



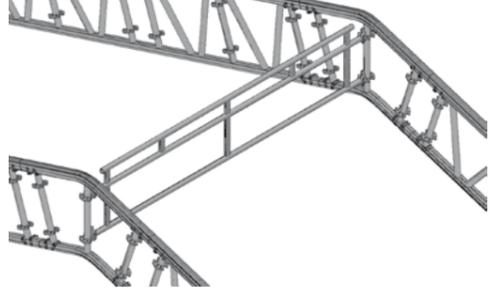
9 Lift the next girder and connect with double railguards.



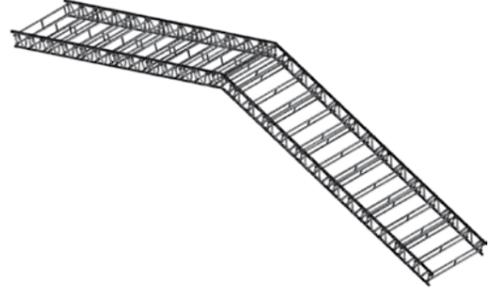
10 Details of mount.



11 Install a double railguard with top on the top of the roof slope.

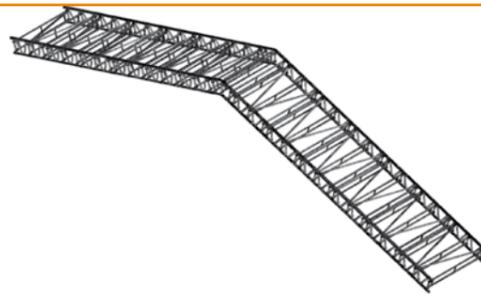


12 Mount other railguards.

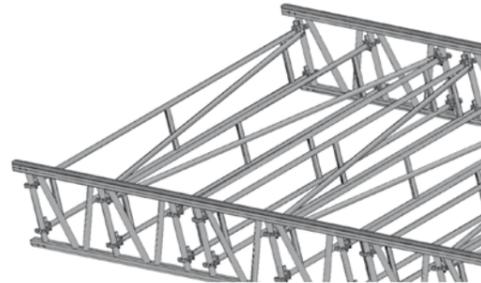


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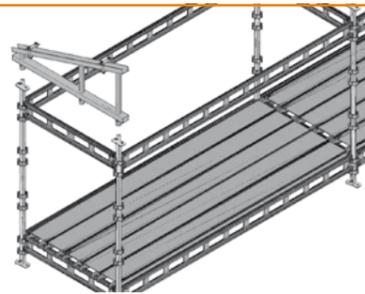
13 Mount diagonal braces.



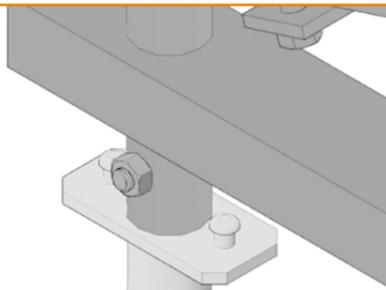
14 Details of mount.



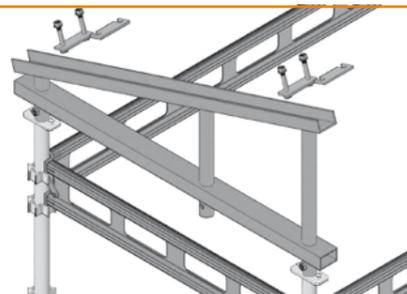
15 Fix roof supports on the scaffold top.



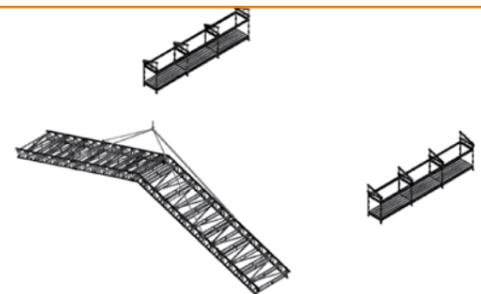
16 Protect the supports with bolts.



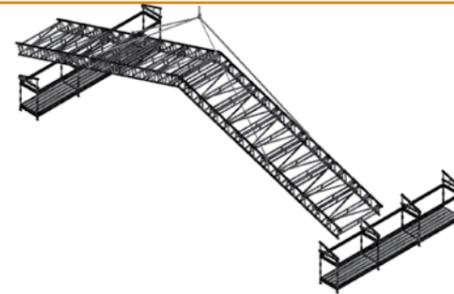
17 Dismantle metal plates fastening a roof slope.



18 Hang the roof slope under the girder...



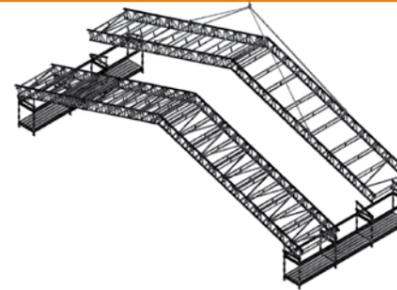
19 ...and locate on the supports.



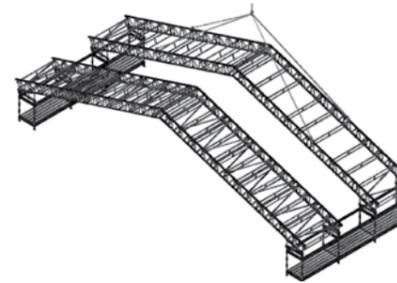
20 Protect the roof slope by means of metal plates and bolts.



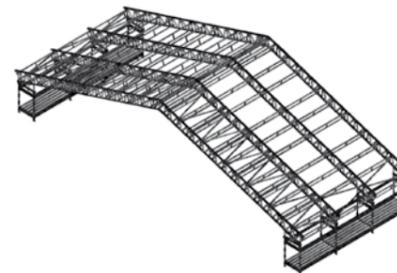
21 Lift the next roof slope...



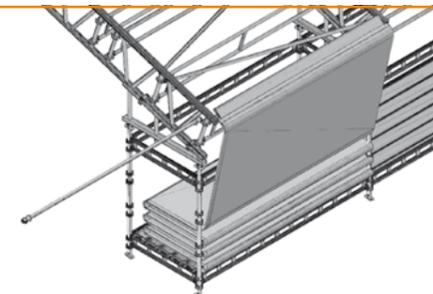
22 ...and locate on the supports.



23 Mount other railguards.



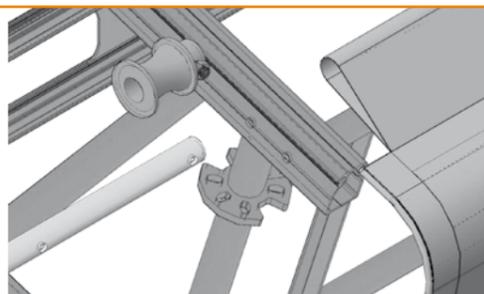
24 Locate keder tilt at a determined place.



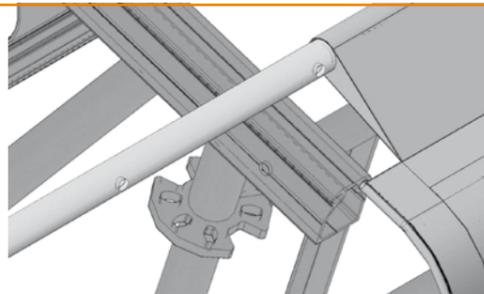
Installation guidelines

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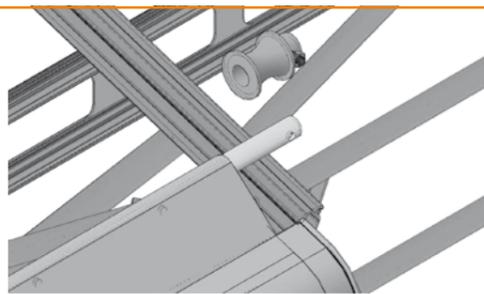
25 Remove a roll from a mounting beam...



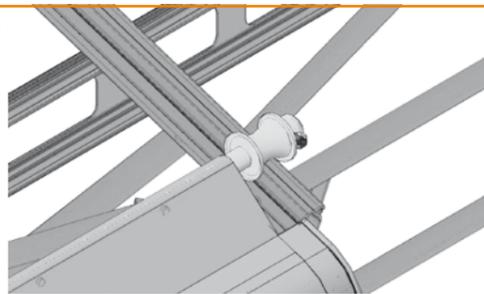
26 ...insert a pipe into an end pocket of the tilt...



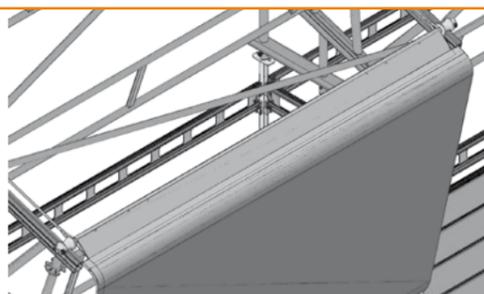
27 ...and install the roll back.



28 The roll should rest on the top strip of the girder.



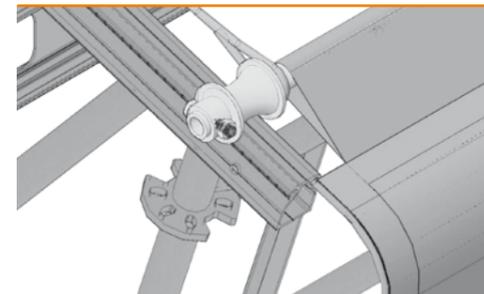
29 Fasten mounting lines to the beam...



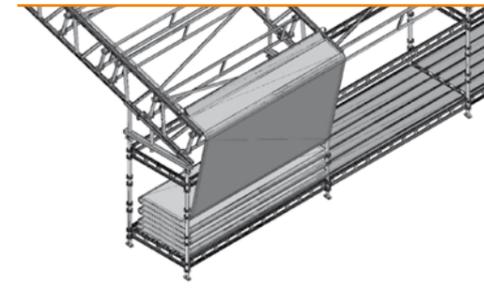
30 ...or only one.



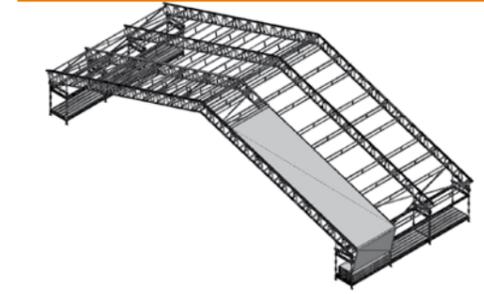
31 Before starting the installation, make sure that the rolls are secured.



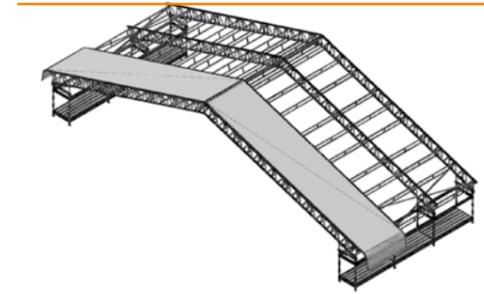
32 Install the tilt...



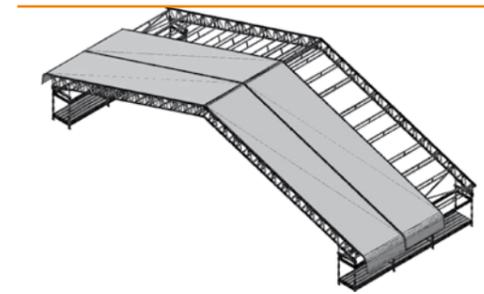
33 ...through the top of the roof slope...



34 ...to the other side to the eaves.



35 Similarly with other roof slopes.

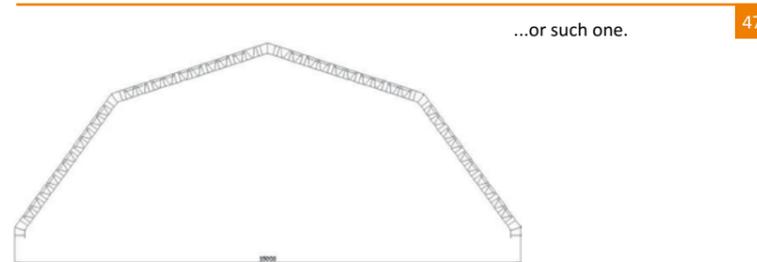
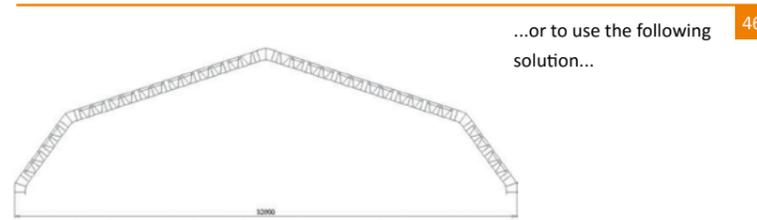
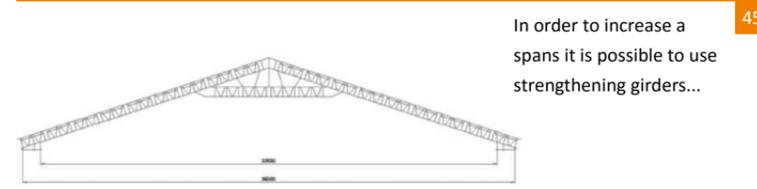
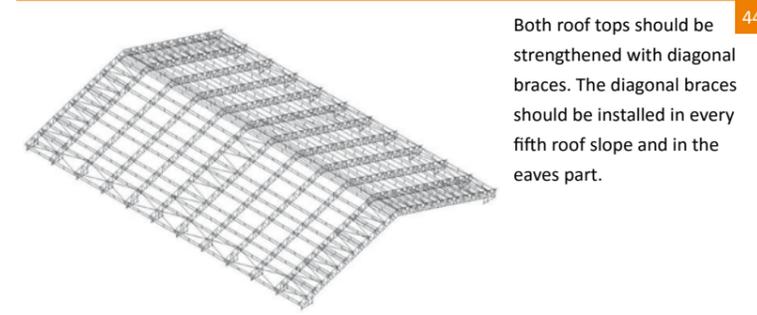
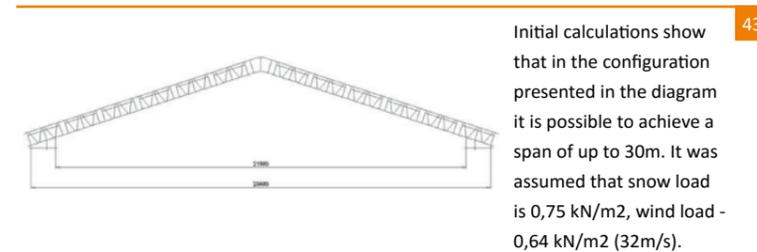
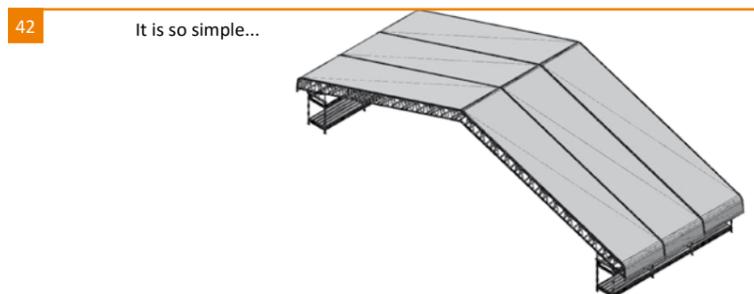
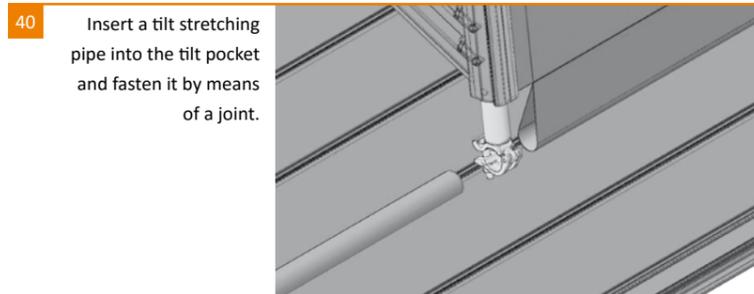
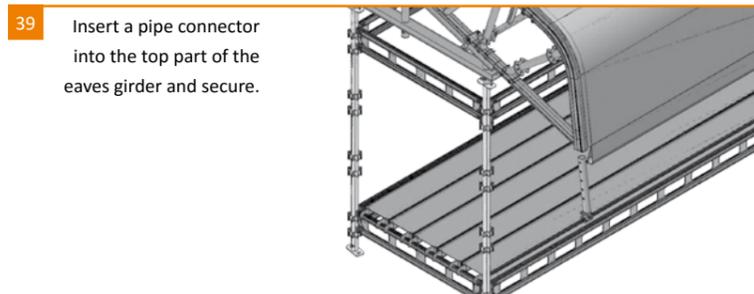
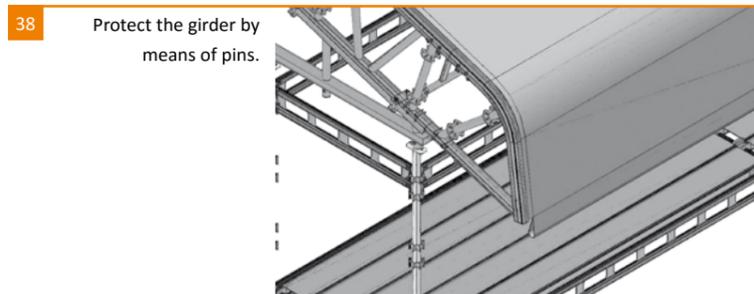
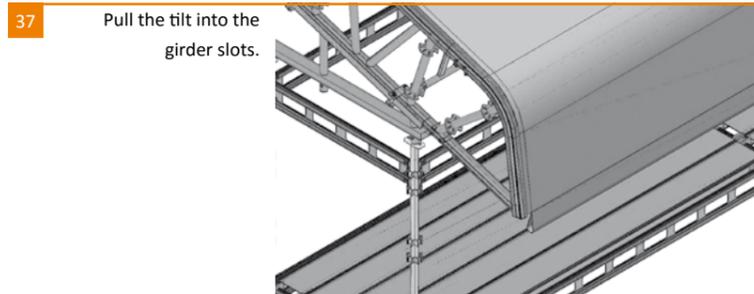


36 The eaves girders should be installed in the end of the mount.



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