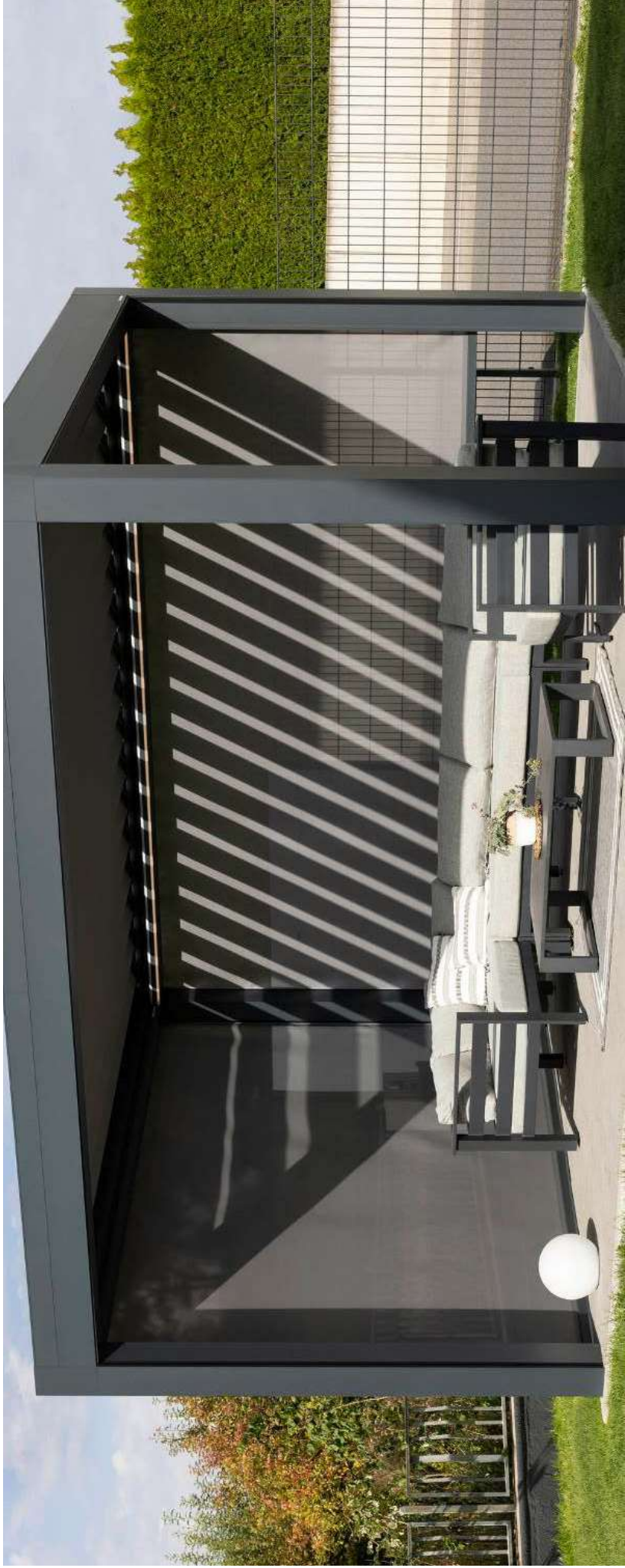




Roof systems

Slat roofs Lamaxa L60

Year-round use

Protection in all weather: Depending on the type, the incidence of light can be adjusted to various levels with the pivotable slats – all the way to a complete, weather-proof closure of the slat roof.

Dry

Dryness guaranteed: Controlled drainage through integrated rain gutters and drainage in the pole.

Customisable

Can be individually equipped according to personal preference with diverse, optional extras suitable for retrofitting such as integrated LED and RGB lighting, integrated awnings with easyZIP guidance, sash frames or radiant heaters.

Construction limit values

Maximum order width	4750 mm
Maximum order length	6330 mm
Maximum order area	30 m ²

[Order here](#)

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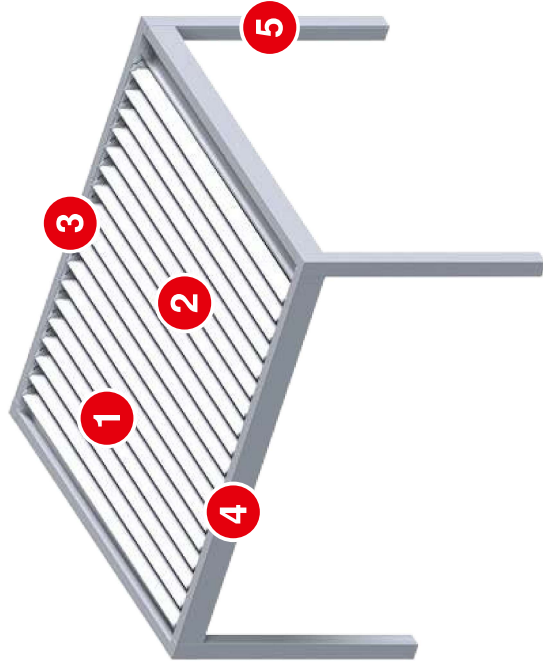
WAREMA tools

[Sun Shading Planner](#)

[see "Navigating the document", Page 5](#)

Components

Slat roof Lamaxa L60



1	Slats	4	Tilting mechanism via push rod
2	Slat with motor	5	Pole
3	Beam		

Slat

Slat - L60

Material	Aluminium, extruded
Surface	Powder-coated
Width	233 mm
Height	57 mm
Swivelling range	0 - 135 °

Pole

Pole - L60/L70

Material	Aluminium, extruded
Surface	Powder-coated
Width	170 mm
Height	170 mm

Installation options:

- Ground installation with frost-proof, on-site foundation.
- The grout for filling the clearance is not included in the scope of delivery when threaded rods are used.

Floor recess and separation cut:

- For a floor recess, we recommend the use of a separation cut in the inspection parts to allow for inspection without dismantling the floor.
- If the floor recess does not have a separation cut, the easyZIP guidance inlays and the integrated LED strips reach the bottom edge of the pole profile.
- Floor recesses with a separation cut must be at least 60 mm.

Pole, optional

Pole guide rails - L60/L70

Material	Aluminium, extruded
Surface	Powder-coated
Width	170 mm
Height	170 mm

If an easyZIP awning is installed in a field in which a wall console is installed, a separate pole is required below the wall console. Inward or outward drainage through guide rail poles possible. Only corner base plate possible.

Base plate

Base plate - corner installation L60/L70

Material	Galvanised steel
Surface	Plain
Optional surface	Powder-coated
Width	300 mm
Height	300 mm

Base plate - internal L60/L70

Material	Galvanised steel
Surface	Plain
Optional surface	Powder-coated
Width	170 mm
Height	170 mm

Since the material thickness is generally visible, the internal base plate should be coated if there is no floor recess.

Crossbeam

Crossbeam - L60/L70

Material	Aluminium, extruded
Surface	Powder-coated
Width	169 mm
Height	280 mm

Electrical distribution on the crossbeam

Material	Aluminium, extruded
Surface	Powder-coated
Width	91,5 mm
Height	174 mm

Drainage

Drainage in pole - L60/L70

- Drainage through drainpipe in pole
- In order to achieve rain class 2 with closed slats, at least one drainage point is required for a unit size smaller than 16 m² and at least two drainage points for a unit size larger than 16 m². If the minimum number of drainage points is not observed, rain class 2 is not achieved.

Position of drainage outlet:

- Possible on every pole
- Drainage and electronics/connecting lines must always be installed in separate poles.
- On the outsides of the poles or downward
- Min. height: 120 mm - 380 mm/height: 40 mm (for internal base plates)
- From 550 mm to 500 mm below the headroom

Note: Downward drainage through base plate:

When planning and measuring, please note that the concrete foundation must be very precisely manufactured

if downward drainage through the base plate is required. The drainage does not sit centrally in the base plate.

Wall connection profile, optional

Wall connection profile with small rain hood

Material	Aluminium, extruded
Surface	Powder-coated
Width	54 - 65 mm
Height	48 mm
Dimensions, notes	The adjustment range in the depth between rain hood and wall connection profile is up to 11 mm.

The on-site sealing is the responsibility of the specialist partner; if necessary, the commissioning of a plumbing company is recommended.

Field of application:

- Terrea K50
- Terrea K70
- Perea P20 (up to an angle of 10°)
- Lamaxa L50/L60/L70

Console, optional

Wall console - Lamaxa L60/L70

Material	Galvanised steel
Surface	Powder-coated
Width	120 mm
Height	180 mm
Depth	140 mm

- Use in corner as pole replacement.
- A maximum of two poles can be replaced by wall consoles.
- For a concrete mounting substructure; adapter plates are required for other substructures.
- The wall console protrudes 11 mm beyond the order width and order length. This results in a gap of 11 mm between the crossbeam and the wall.
- For inner angle wall consoles, the lateral corner area is not covered by profiles.

Offset wall console - Lamaxa L60/L70

Material	Aluminium, extruded
Width	200 mm
Height	120 mm
Depth	120 mm

- For attachment to Tb and/or Td.
- Use in corner as pole replacement or as Free installation.
- A maximum of 4 poles can be replaced by offset wall consoles.
- For a concrete mounting substructure; adapter plates are required for other substructures.
- In the case of the Free installation version with offset wall console, the beam cover is omitted, creating a gap between the beam and the installation point. Angle bracket or cover on request.

Drive variants

- Motor

Motor

- WMS-LP (WMS)

+ see "Drive variants", Page 201

Colours

- WAREMA Colour World, Individual category, fine texture surface quality
- WAREMA Colour World, Highlight category, fine texture surface quality
- WAREMA Colour World, Variation category, fine texture surface quality

Colours, optional:

- WAREMA Colour World

+ see "Colours and finishes", Page 10

Notes

Notes on installation

Limit position learning:

The WAREMA Smart programming cable is required to set the motor limit positions.

Notes on operation

To ensure convenient and fast operation of the slat roof, we recommend WMS WebControl pro (control via smartphone, tablet, etc.) and WMS Weather station plus in order to use the control modes (e.g. sun control). To do so, a sufficiently strong radio reception must be ensured.

Supplementary accessories

- Design radiant heater
- Lamaxa lighting
- Integrated awnings with easyZIP guidance
- Additional pole - L60/L70
- Offset pole - L60/L70
- Glass sliding system SL20e
- Sliding shutters - L50/L60/L70
- Power socket
- Protection profile

+ see "Supplementary accessories", Page 143

Construction limit values

Configuration variants	Minimum order width	Maximum order width	Minimum order length	Maximum order length	Maximum order area	Minimum headroom	Maximum headroom
Slat							
Slat - L60	2500 mm	4750 mm	2000 mm	6330 mm	30 m ²	1200 mm	2700 mm

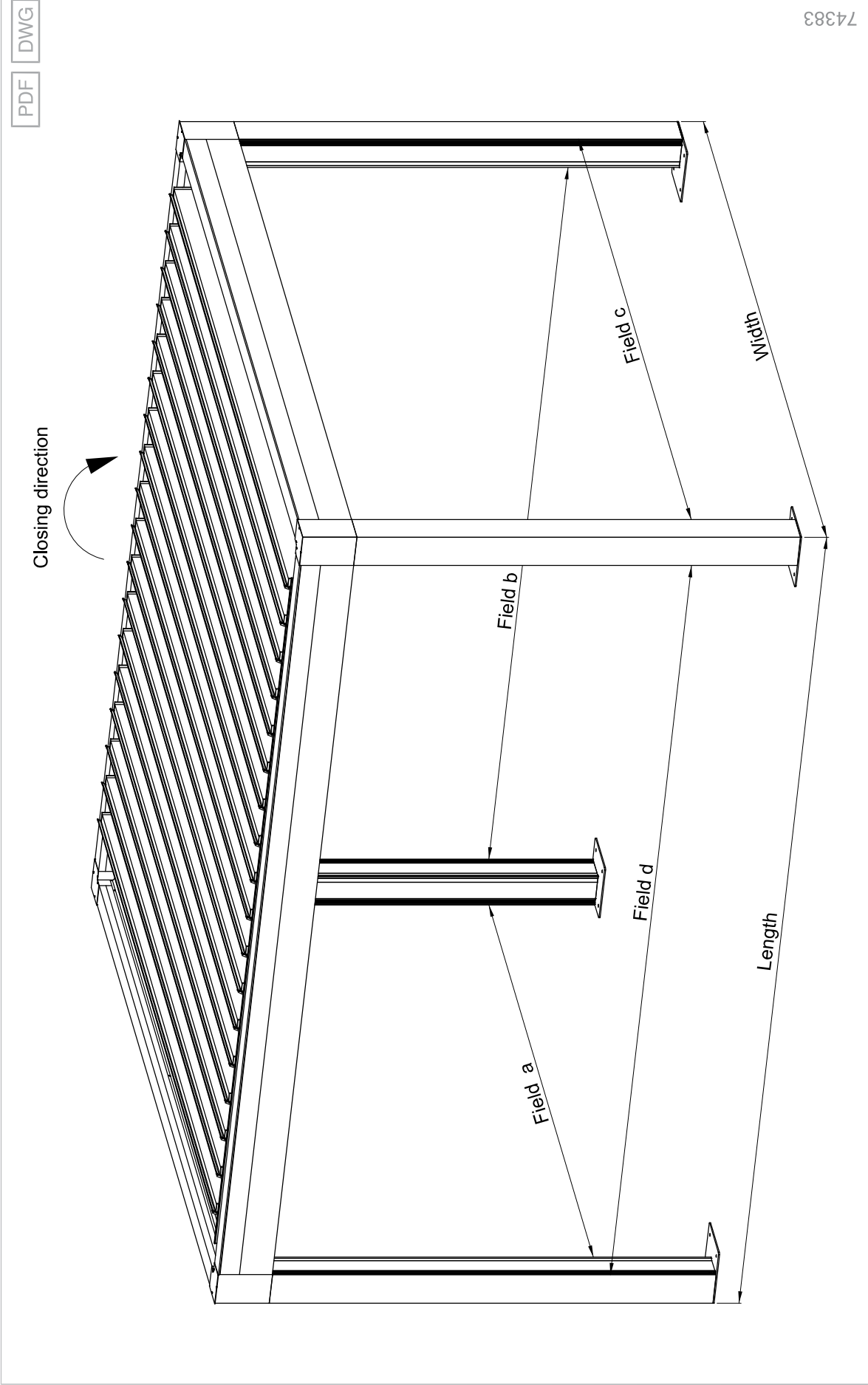
Pole height:

- Minimum height for poles with drainage: 1200 mm
- Minimum height for poles without drainage: 550 mm
- Maximum pole height (headroom plus floor recess) is ≤ 3000 mm.

Dimension determination

The headroom of each pole can be ordered individually (e.g. in case of a sloping finished floor).

L60, field definition



Planning

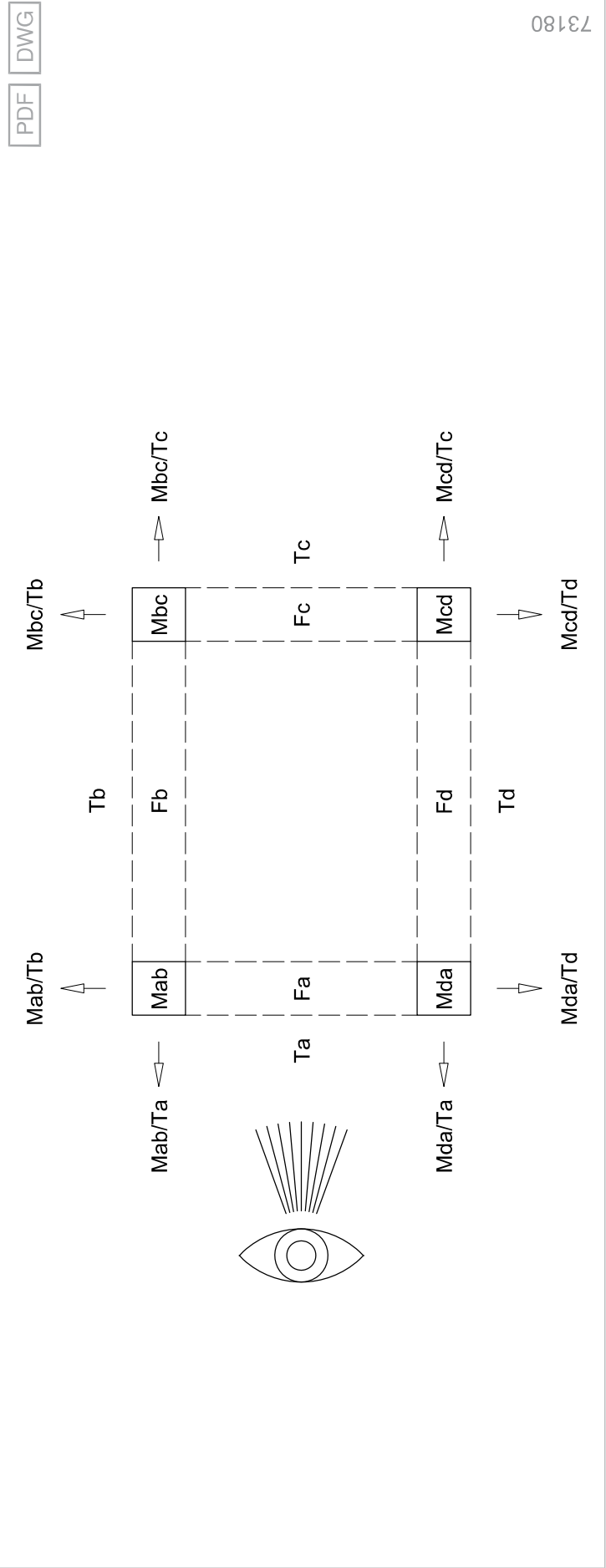
Slat roofs
Lamaxes

Glass roofs
Lamaxes

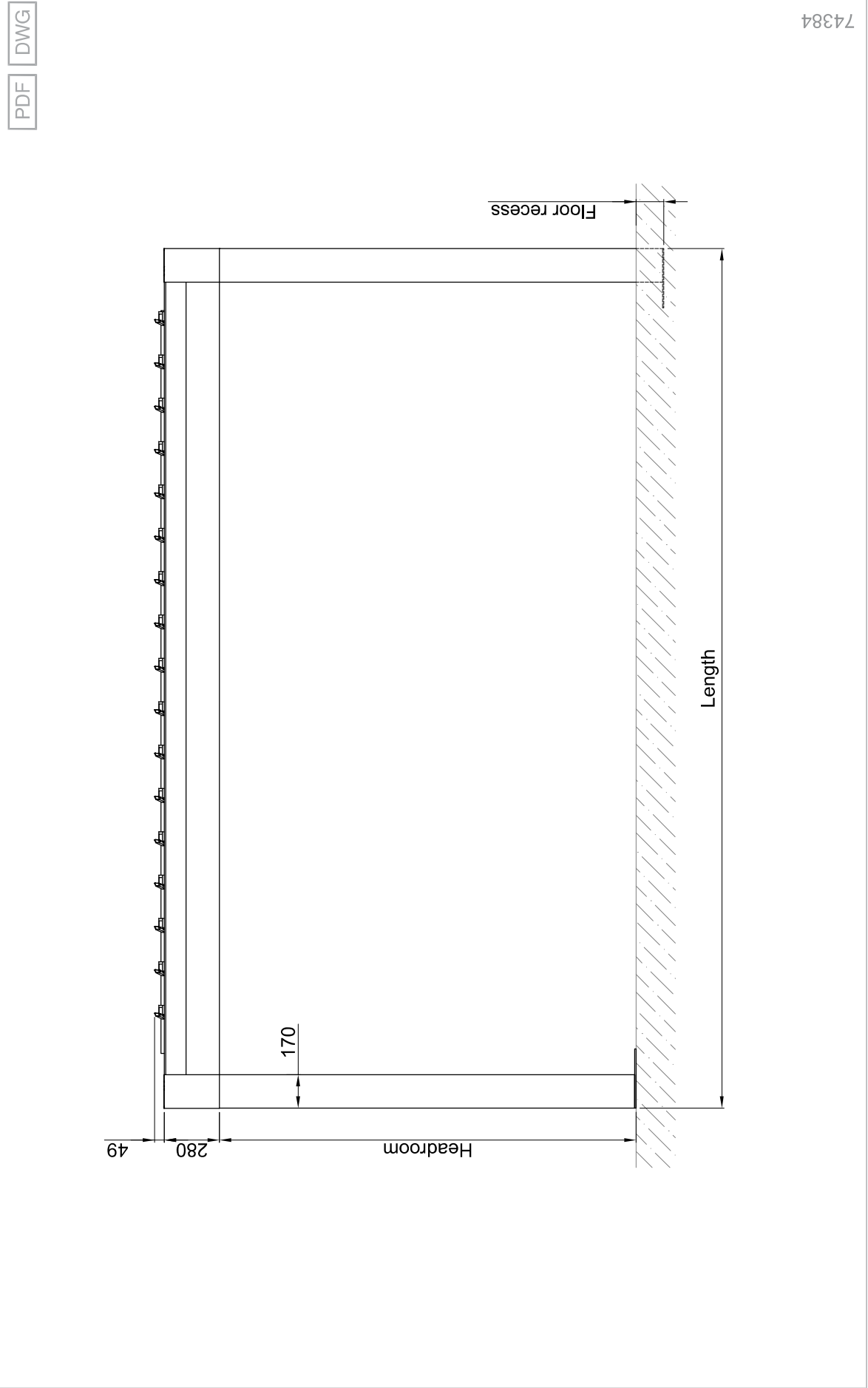
Fabric roofs
Lamaxes

Supplementary
accessories

Drive
variants

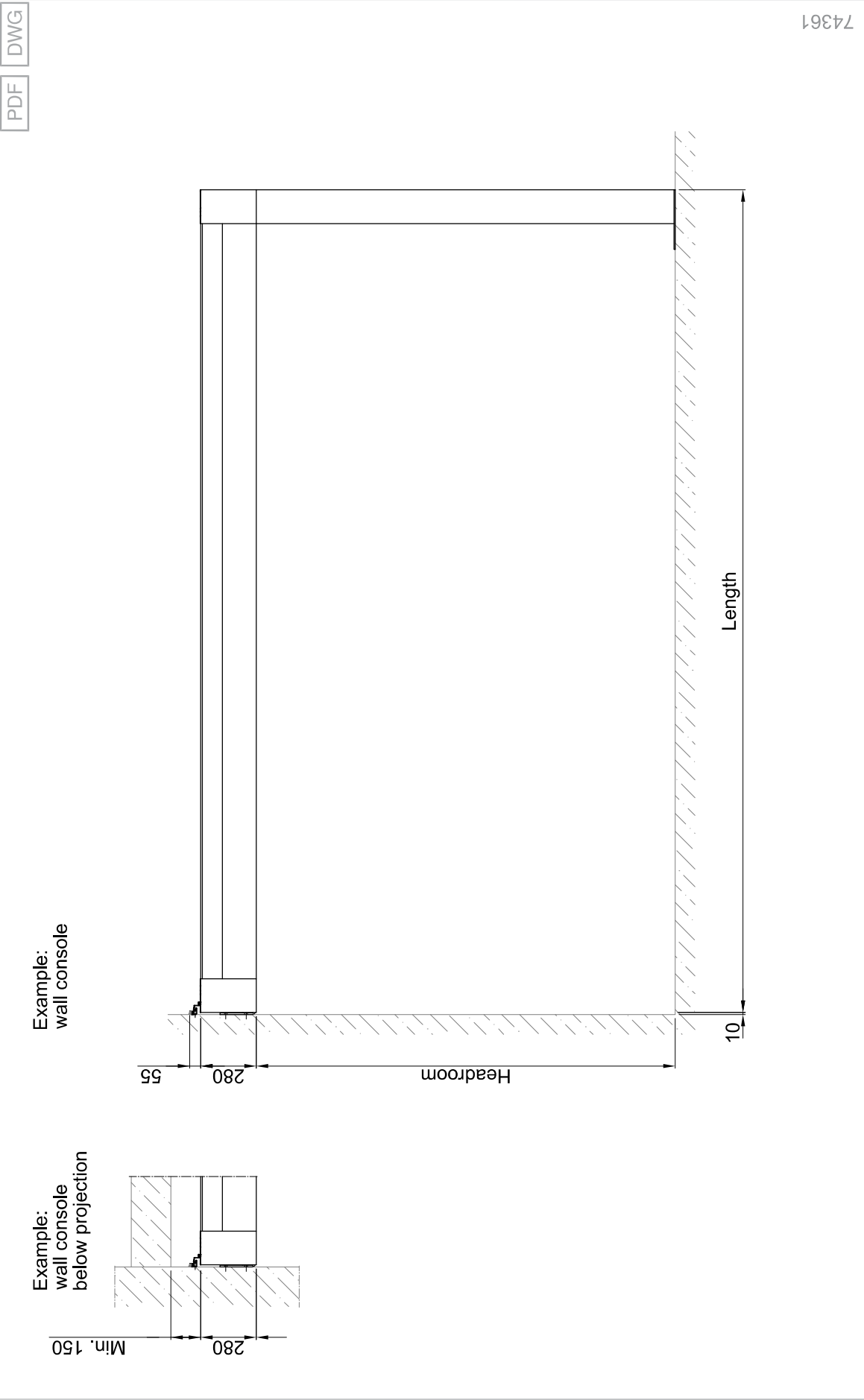


L60, open slats, side view



When closed, the slats do not protrude beyond the crossbeam.

L60/L70, wall console



Planning

Slat roofs
Lamaxa

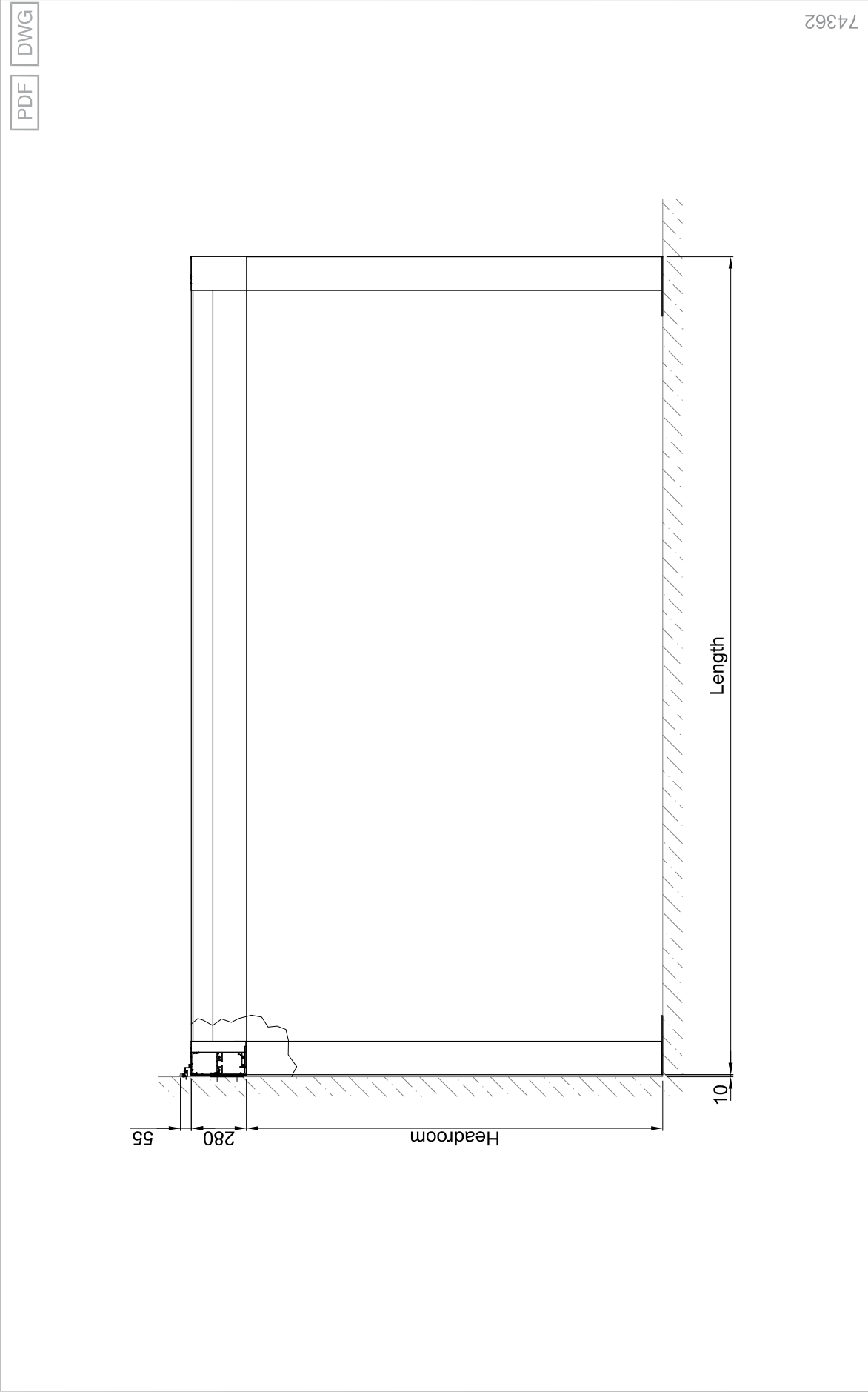
Glass roofs
Lamaxa

Fabric roofs
Lamaxa

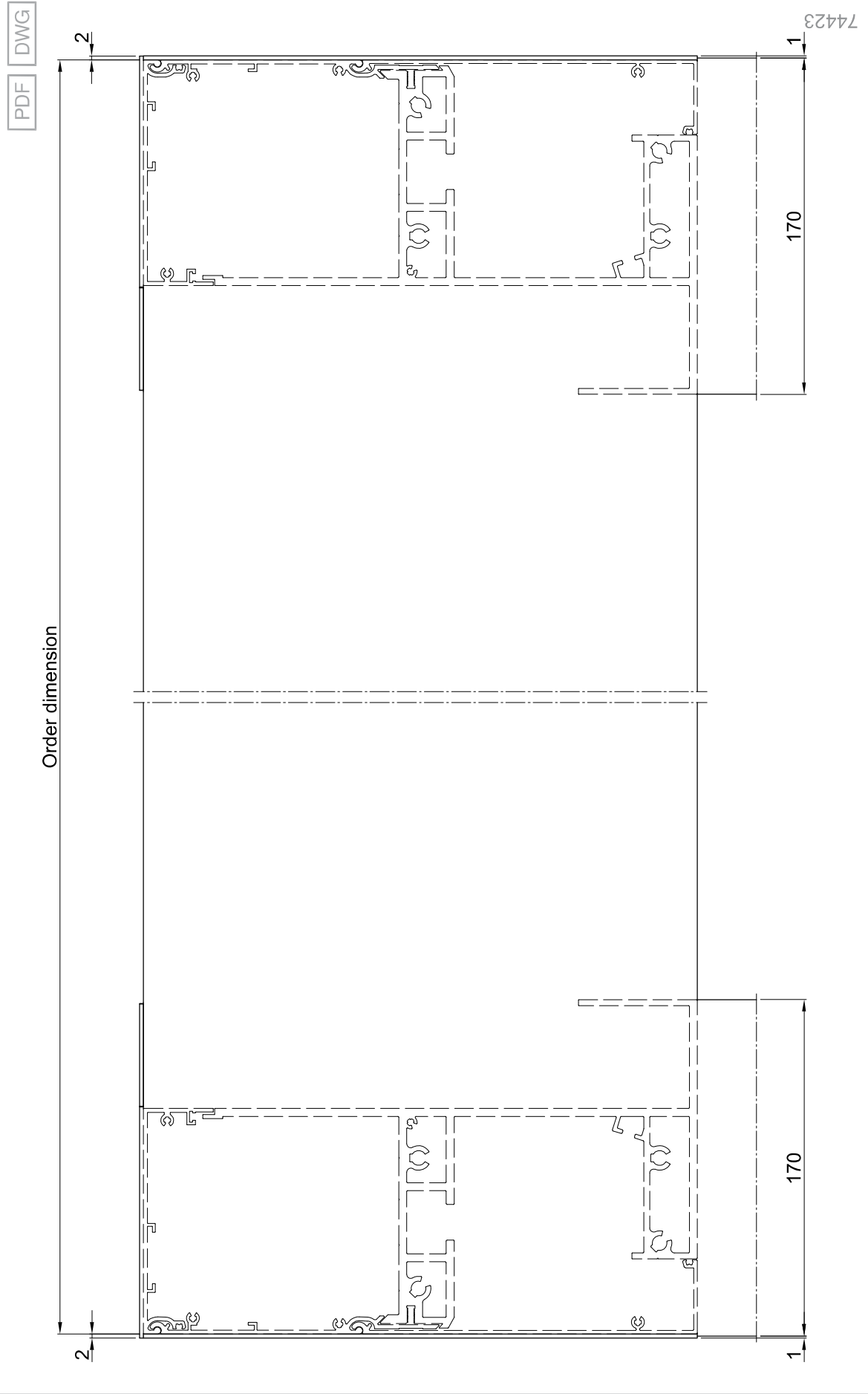
Supplementary
accessories

Drive
variants

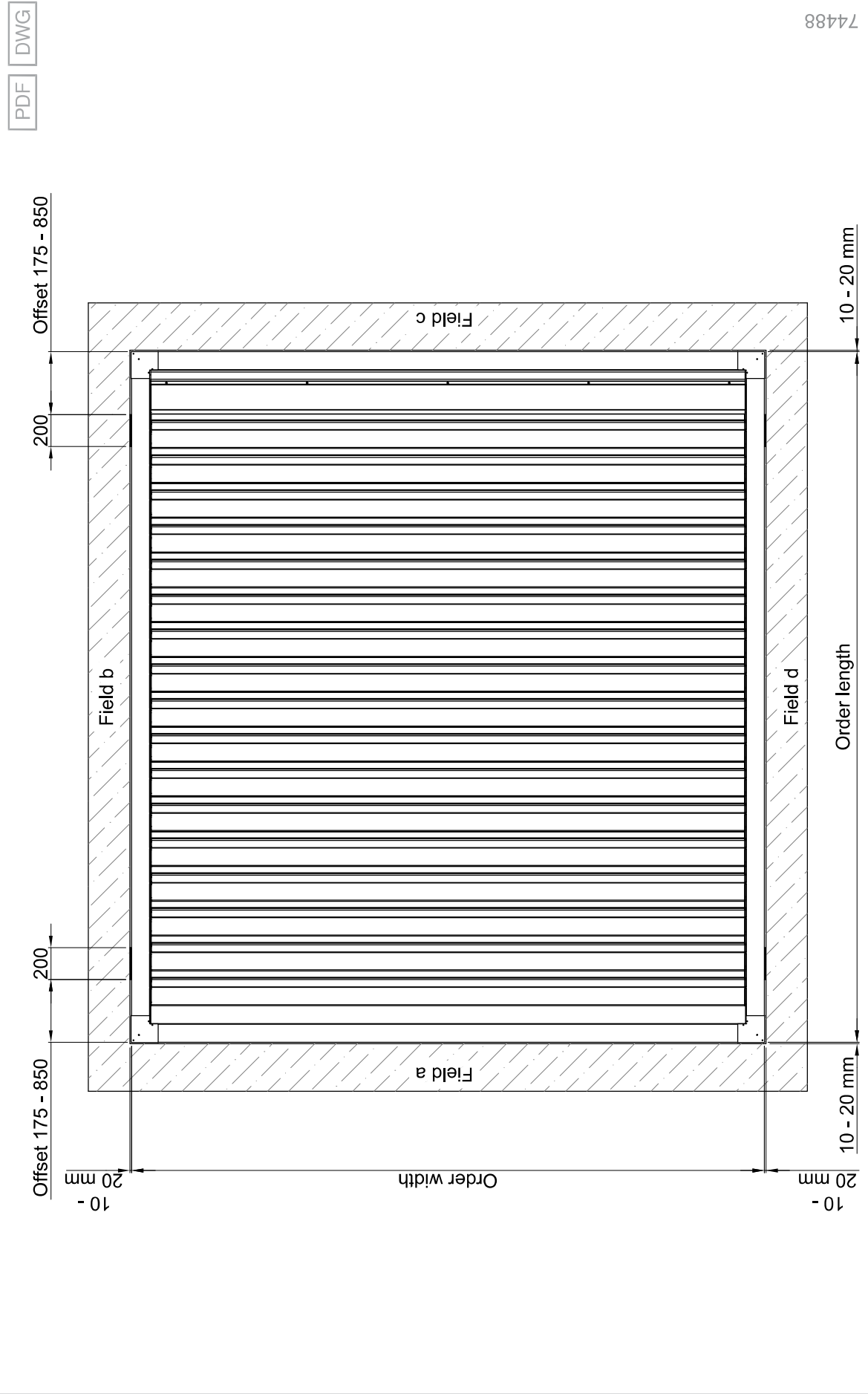
L60/L70, wall console, guide rail pole



L60/L70, dimension determination, order dimension

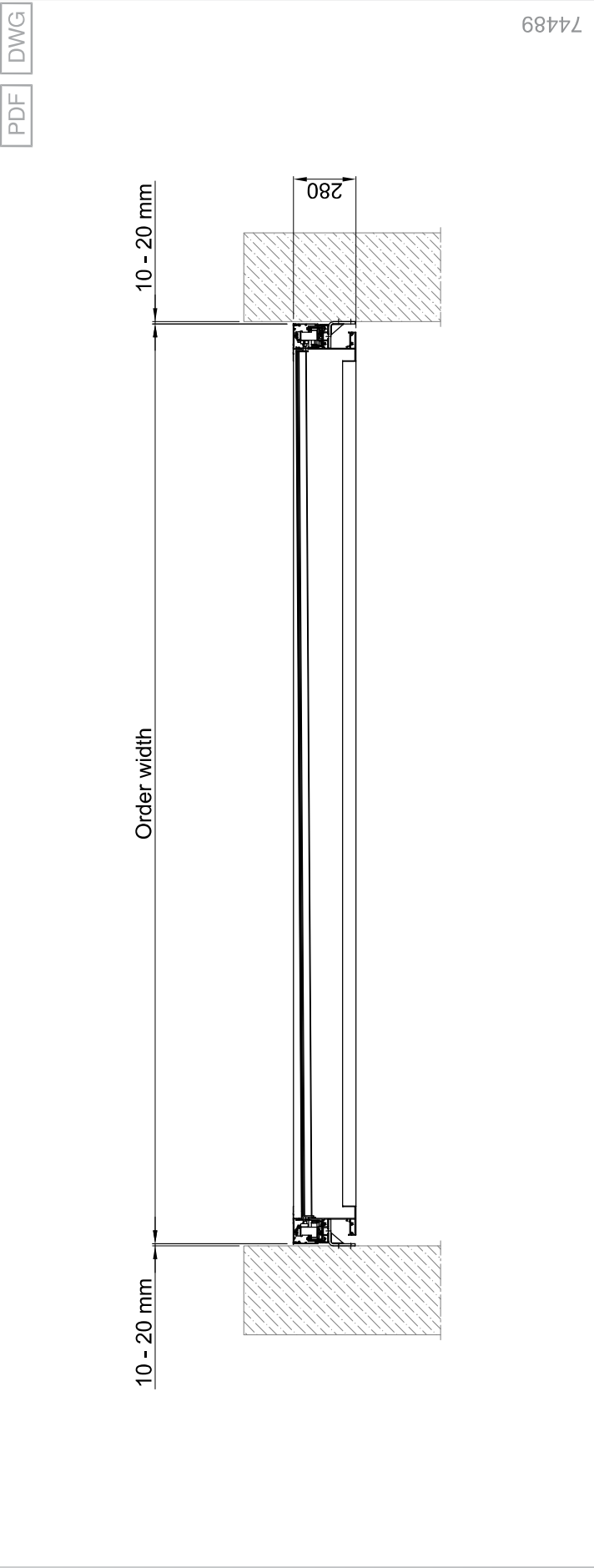


L60/L70, Free-installation with offset wall console





L60/L70, Free-installation with offset wall console



Planning

Slat roofs
Lamaxa

Glass roofs
Lamaxa

Fabric roofs
Lamaxa

Supplementary
accessories

Drive
variants

Standards

Weight assessment

Weight assessment for roof systems

Order width									
Order length	2500 mm	2501 - 3000 mm	3001 - 3500 mm	3501 - 4000 mm	4001 - 4500 mm	4501 - 4750 mm			
2000 - 2500 mm	460 kg	491 kg	523 kg	554 kg	586 kg	602 kg			
2501 - 3000 mm	489 kg	523 kg	558 kg	592 kg	627 kg	644 kg			
3001 - 3500 mm	517 kg	555 kg	593 kg	631 kg	668 kg	687 kg			
3501 - 4000 mm	560 kg	603 kg	645 kg	688 kg	731 kg	752 kg			
4001 - 4500 mm	589 kg	635 kg	681 kg	726 kg	772 kg	795 kg			
4501 - 5000 mm	618 kg	667 kg	716 kg	764 kg	813 kg	838 kg			
5001 - 5500 mm	661 kg	715 kg	768 kg	822 kg	875 kg	902 kg			
5501 - 6000 mm	678 kg	733 kg	788 kg	843 kg	898 kg	926 kg			
6001 - 6330 mm	695 kg	752 kg	809 kg	865 kg	922 kg	950 kg			

Quantity determination

Number of slats

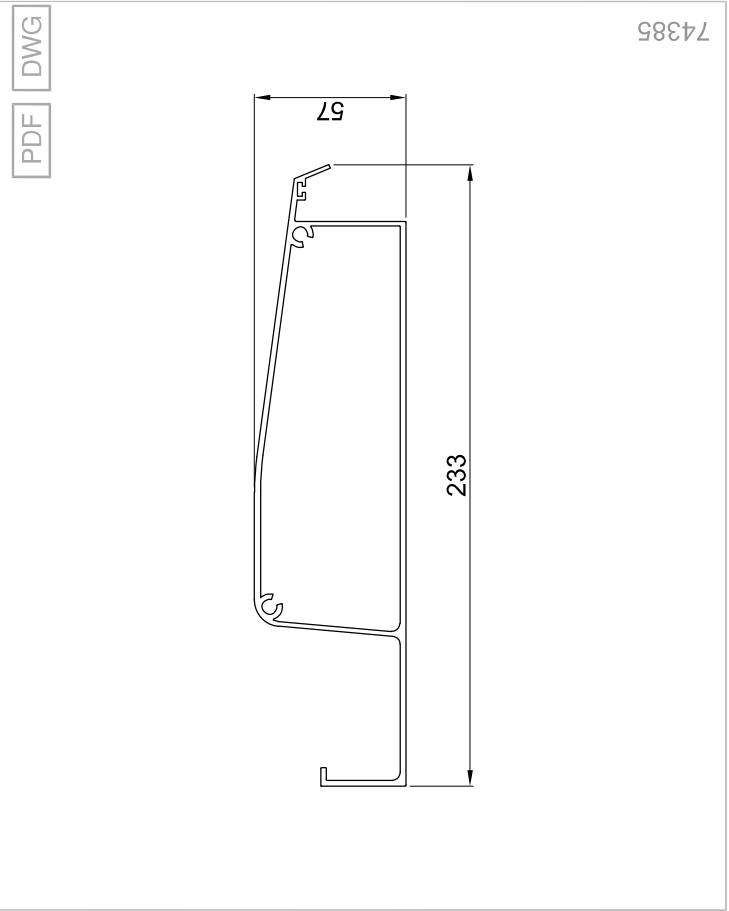
Order length	Number of slats
2000 mm	7
2178 mm	8
2398 mm	9
2618 mm	10
2838 mm	11
3058 mm	12
3278 mm	13
3498 mm	14
3718 mm	15
3938 mm	16
4158 mm	17
4378 mm	18
4598 mm	19
4818 mm	20
5038 mm	21
5258 mm	22
5478 mm	23
5698 mm	24
5918 mm	25
6138 mm	26

Order length:

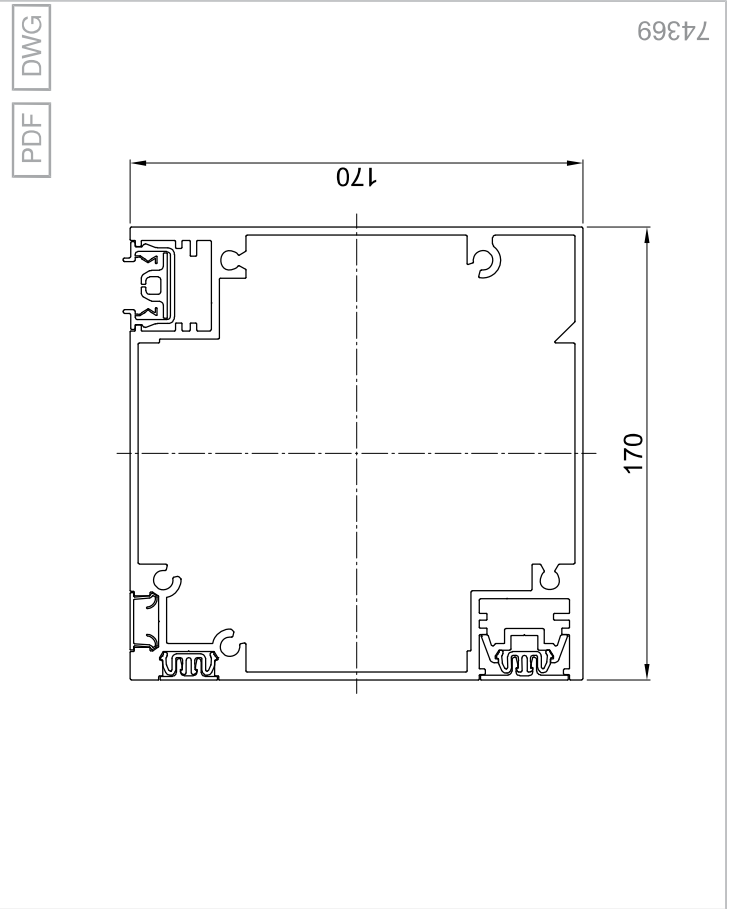
- The order length in the table is the dimension with the smallest possible length equalization plates and hence corresponds to the optimum order dimension (except order length 2000 mm).

Details

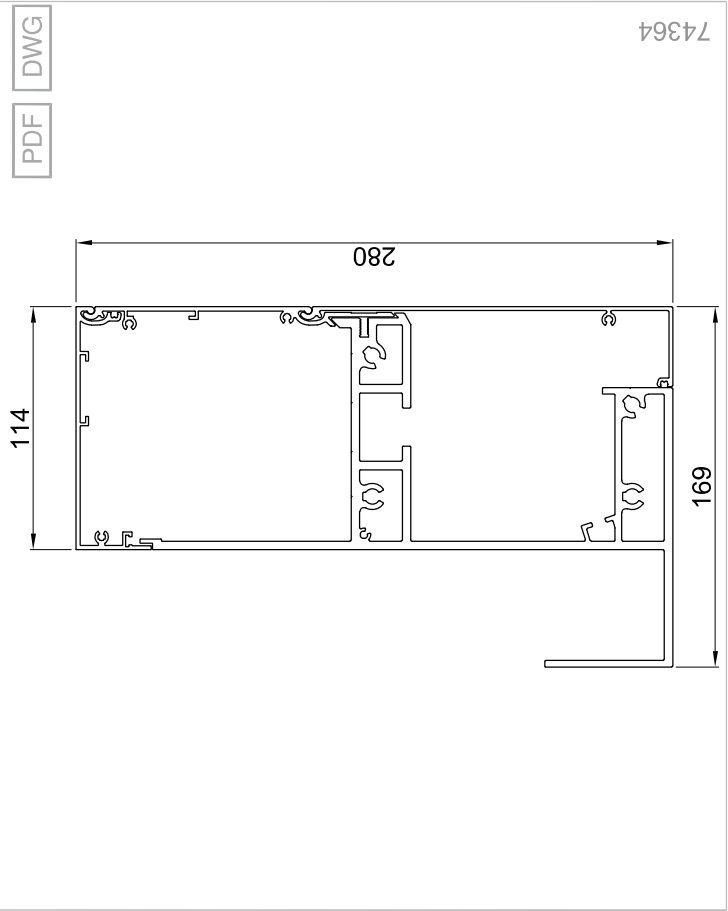
L50/L60 slats



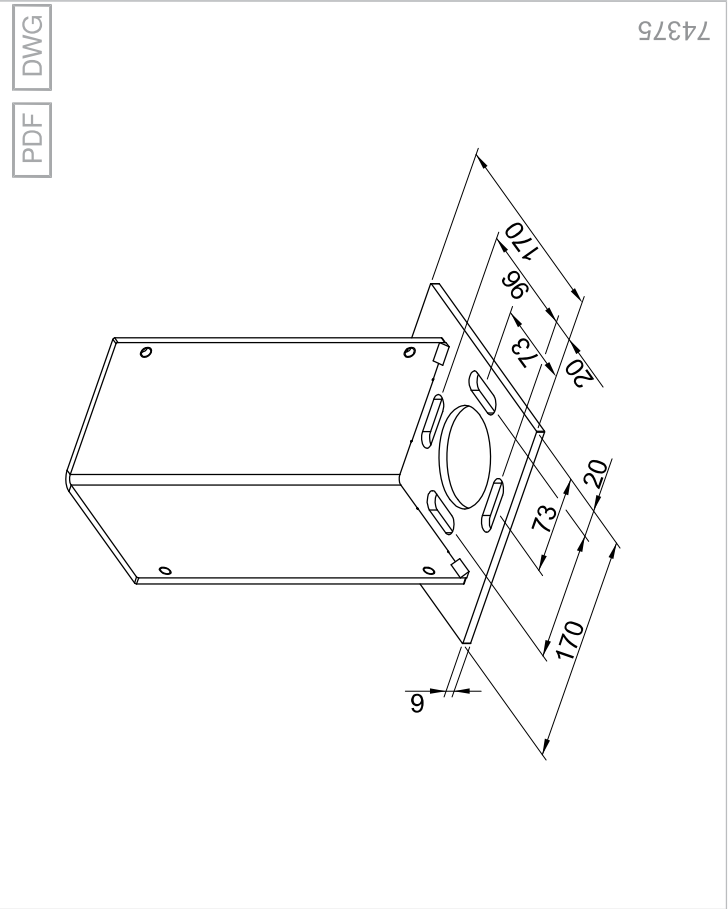
L60/L70, pole



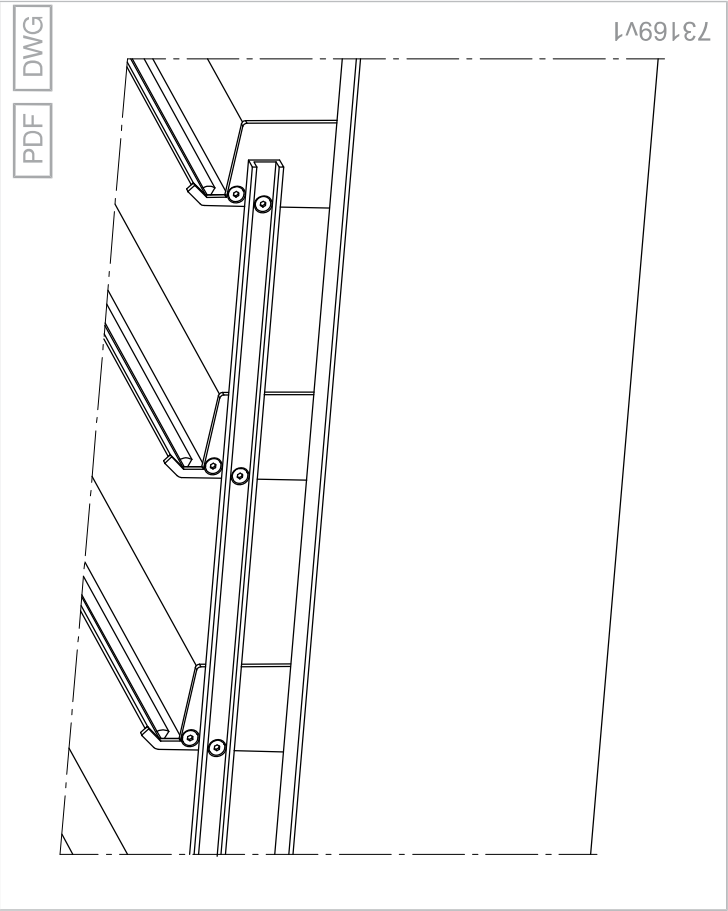
L60/L70, crossbeam a/c



L60/L70, internal base plate

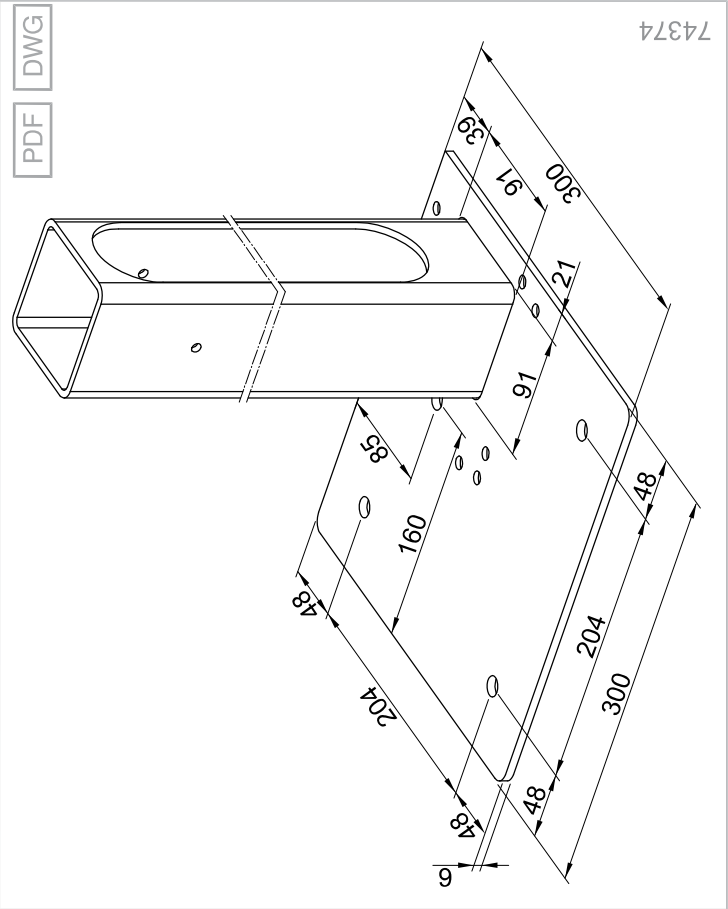


Tilting mechanism via push rod - L50/L60

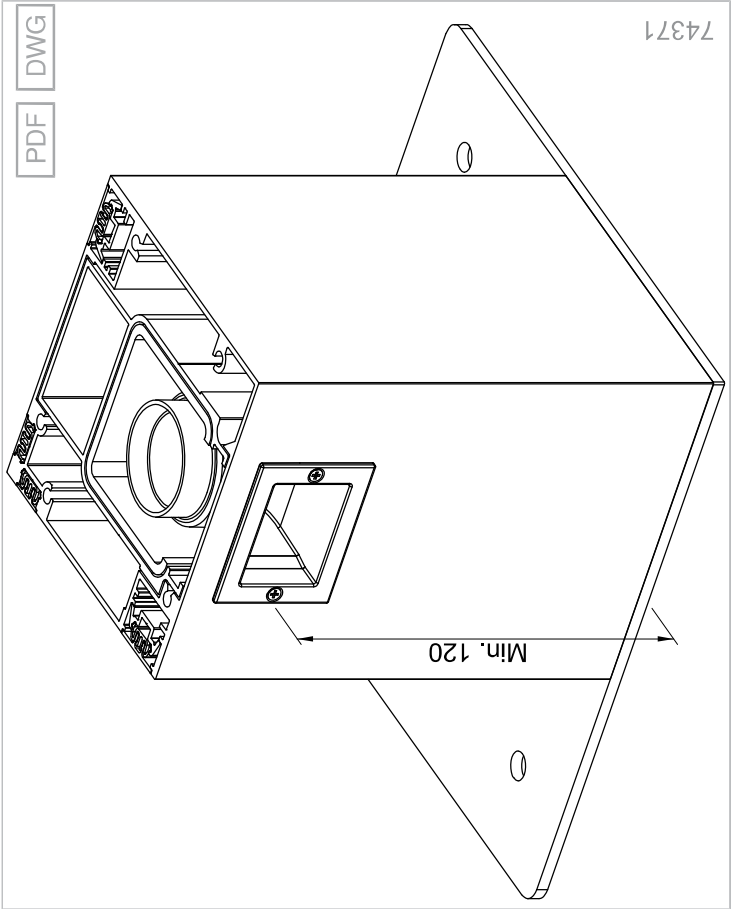


In case of the L50 the push rod is always positioned opposite the drainage. The position of the push rod can be selected for L60.

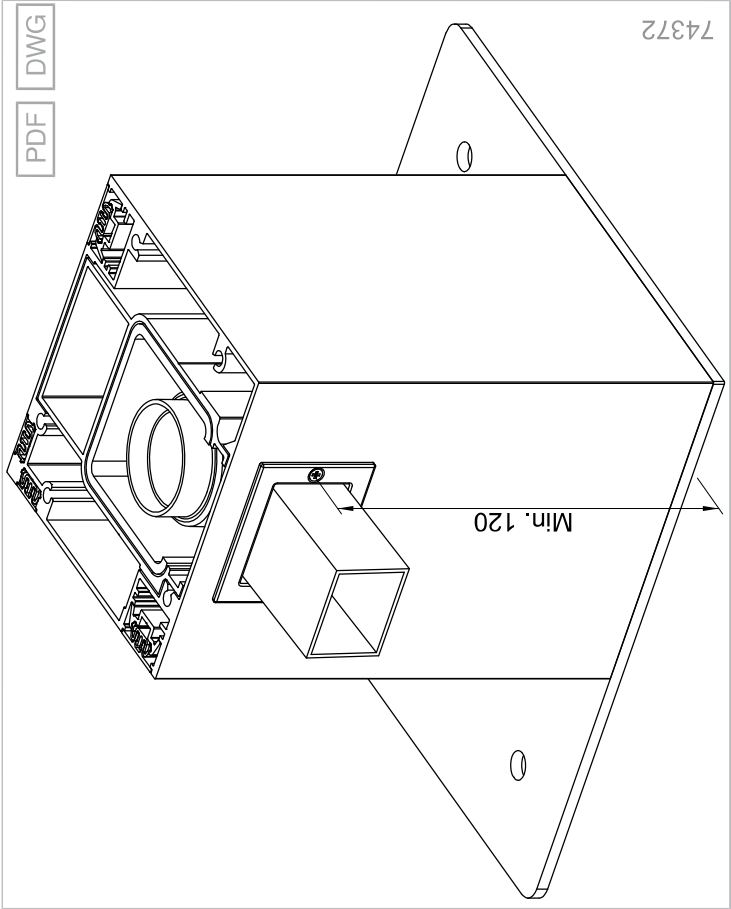
L60/L70, base plate corner installation



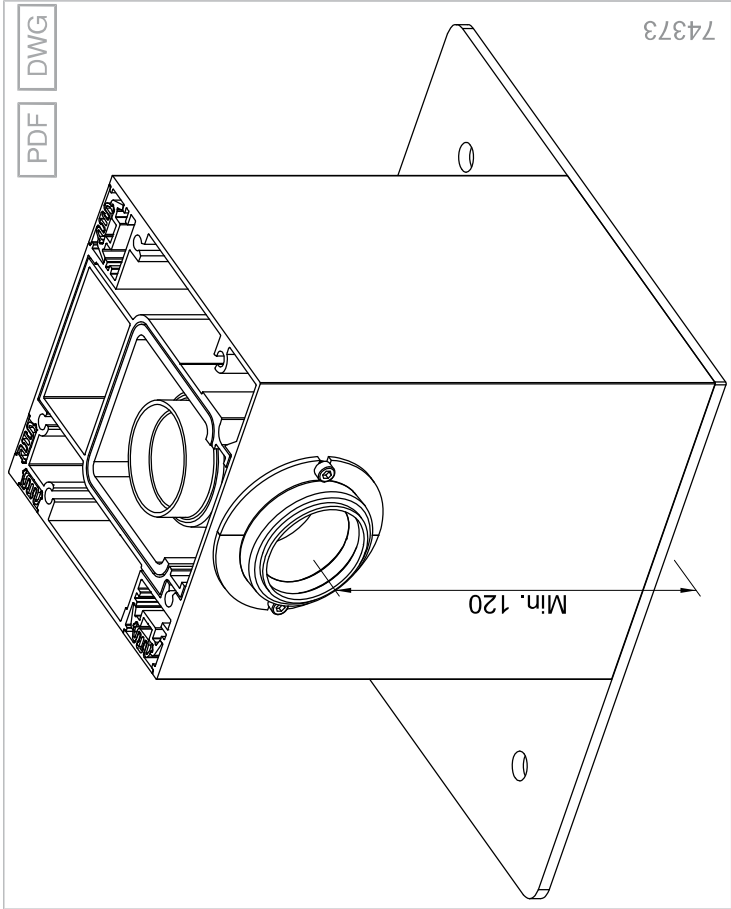
L60/L70, position of drainage, rectangular



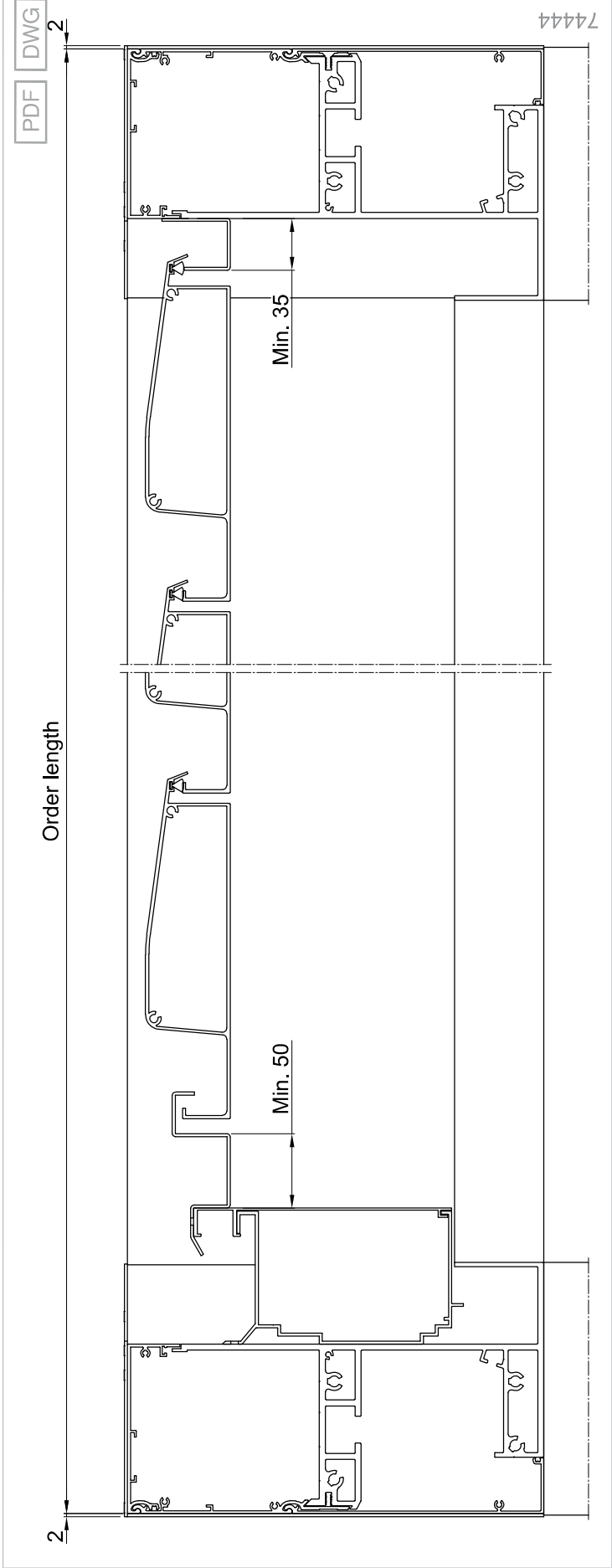
L60/L70, position of drainage, rectangular, optional waterspout



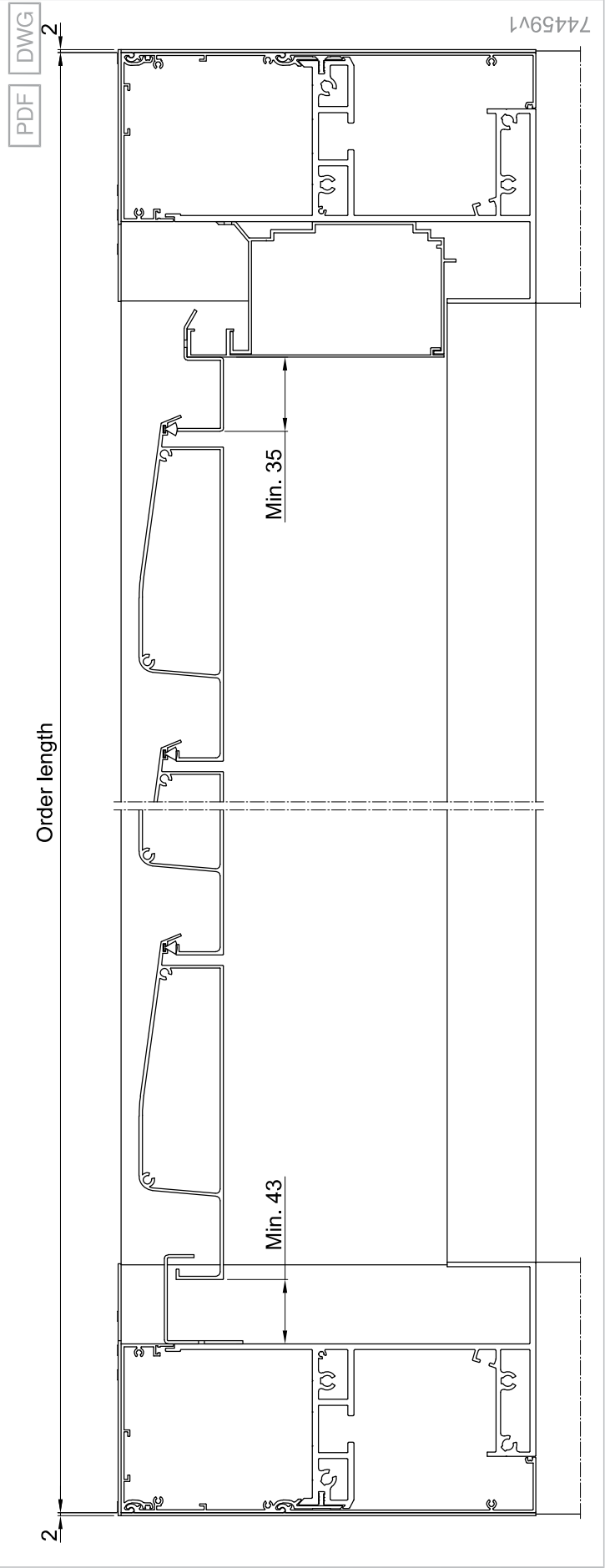
L60/L70, position of drainage, on-site



L60, length compensation plates, electrical distribution on crossbeam a



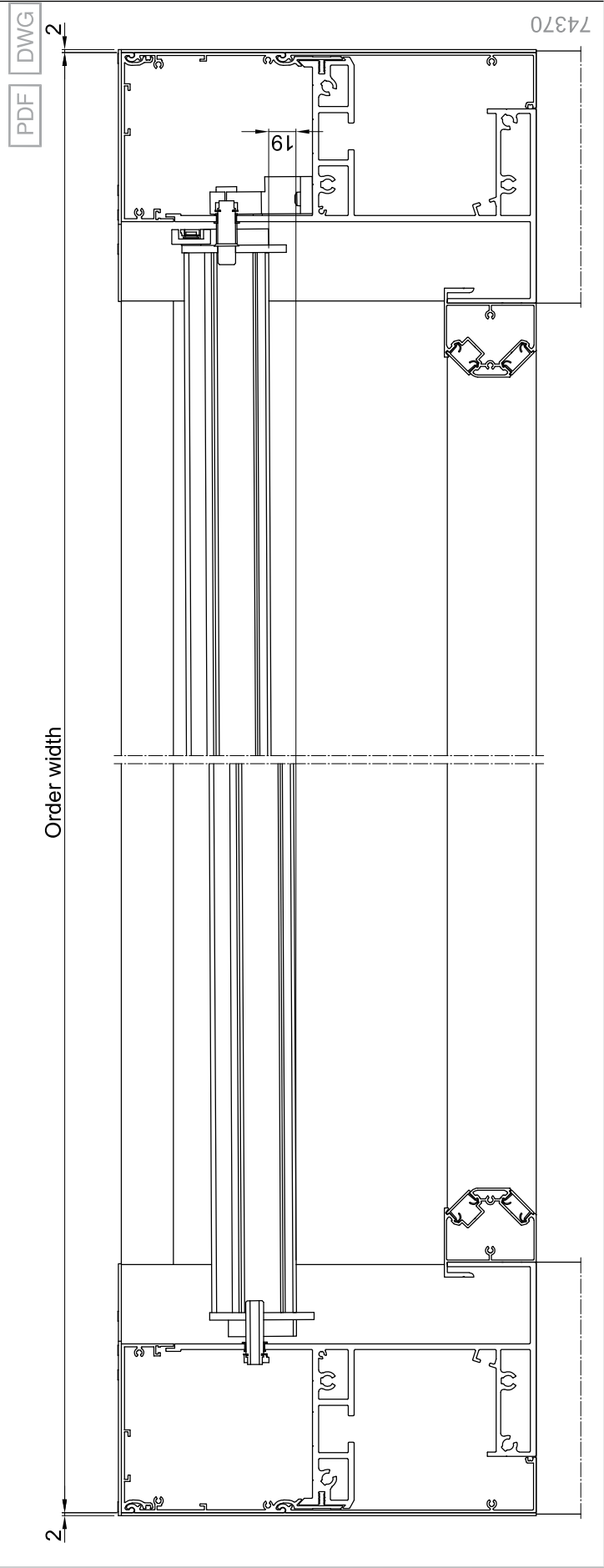
L60, length compensation plates, electrical distribution on crossbeam c



Planning

Slat roofs
Lamaxa

L60, slat inclination



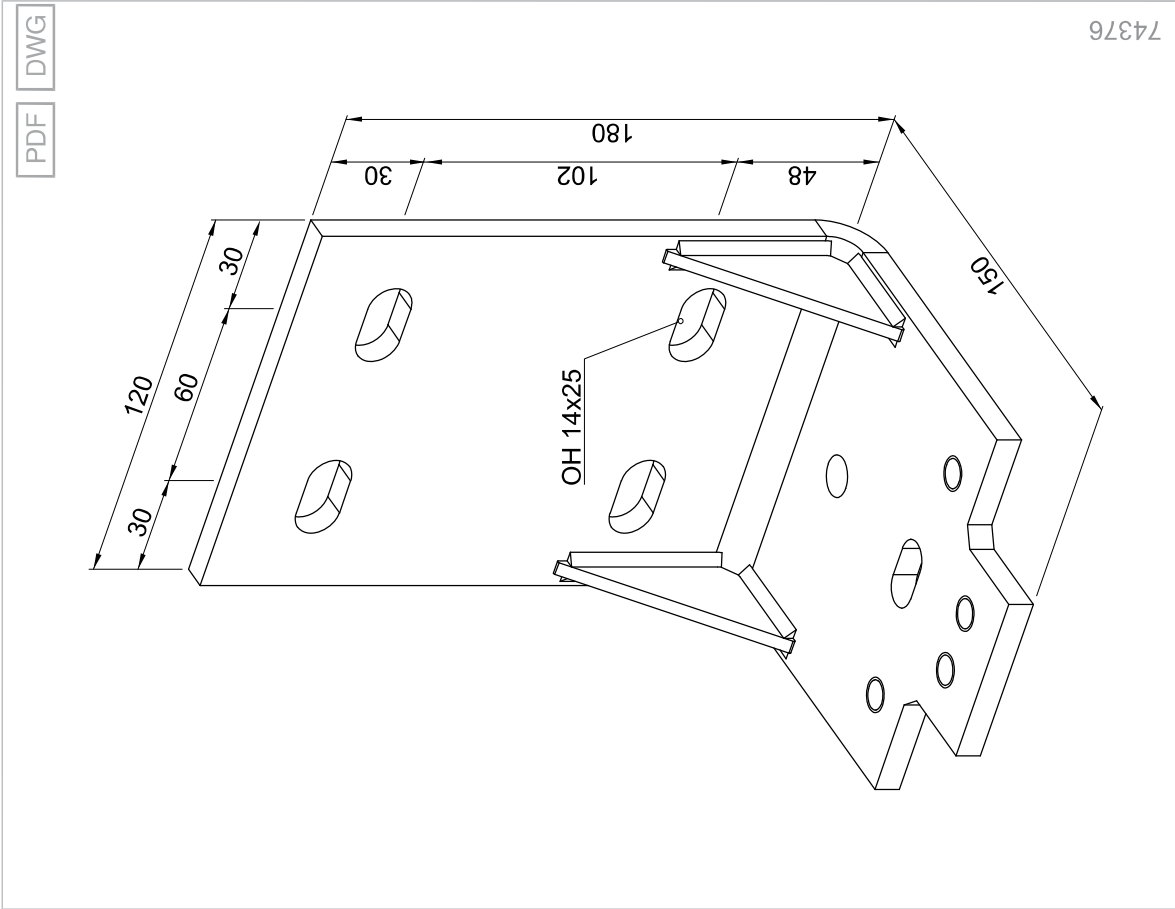
Glass roofs
Lamaxa

Fabric roofs
Lamaxa

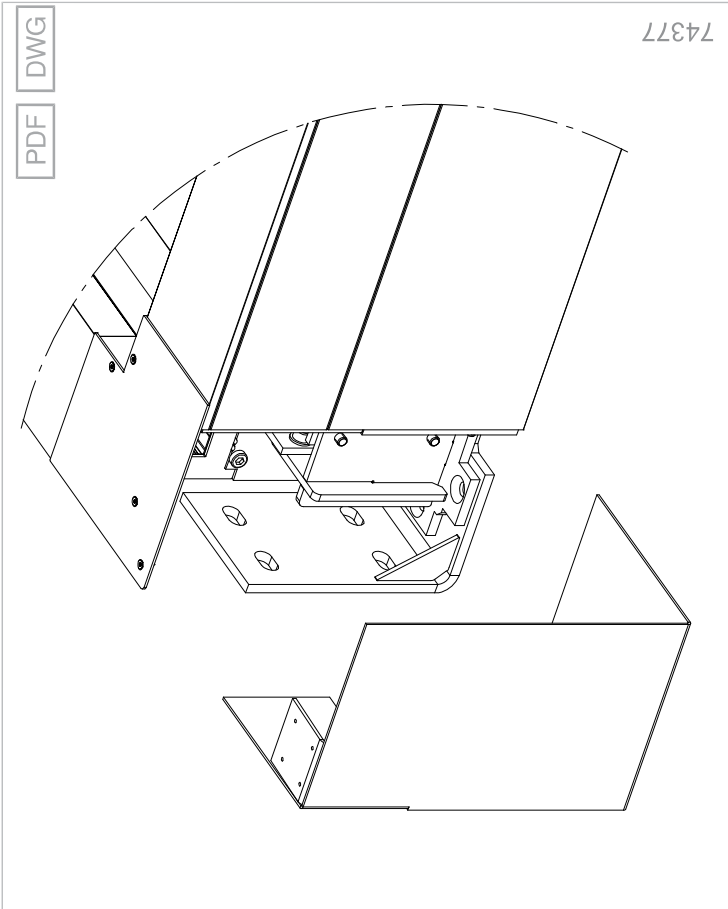
Supplementary
accessories

Drive
variants

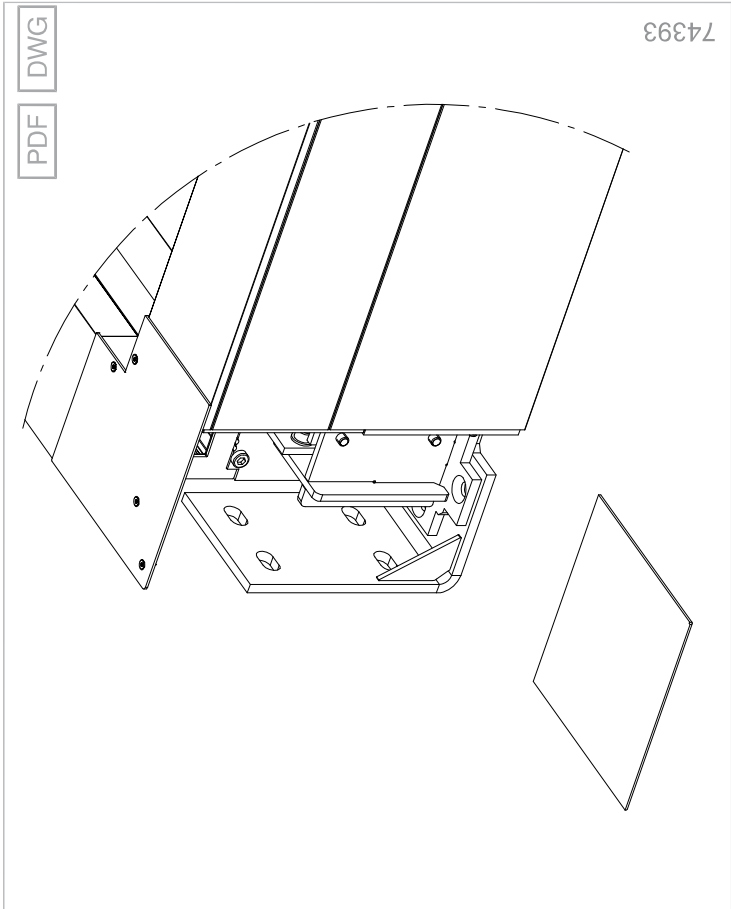
L60/L70, wall console



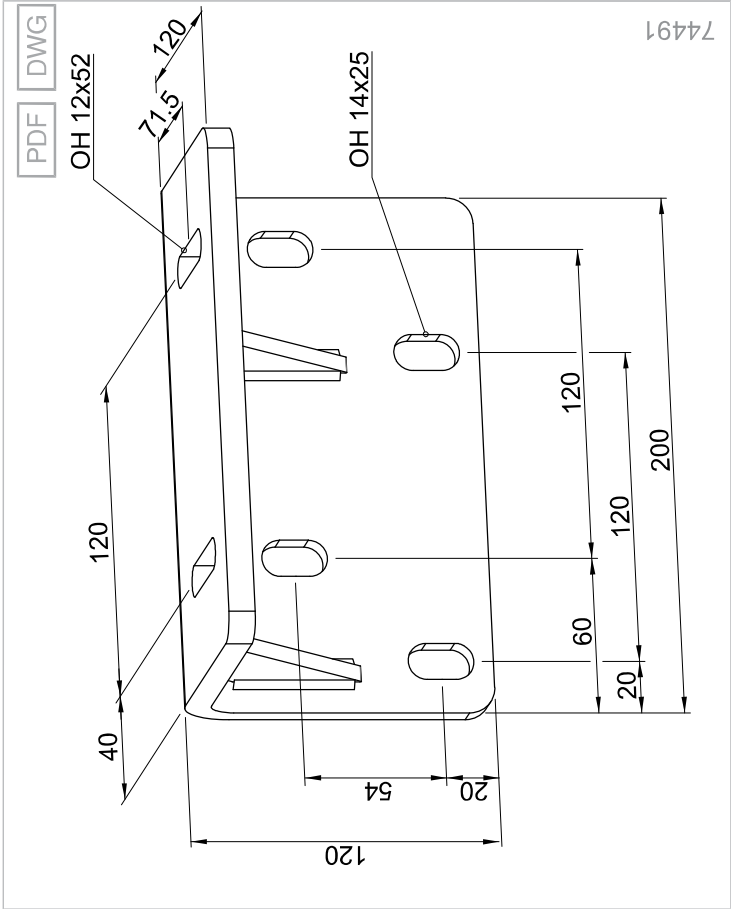
L60/L70, wall console, lateral trim panel



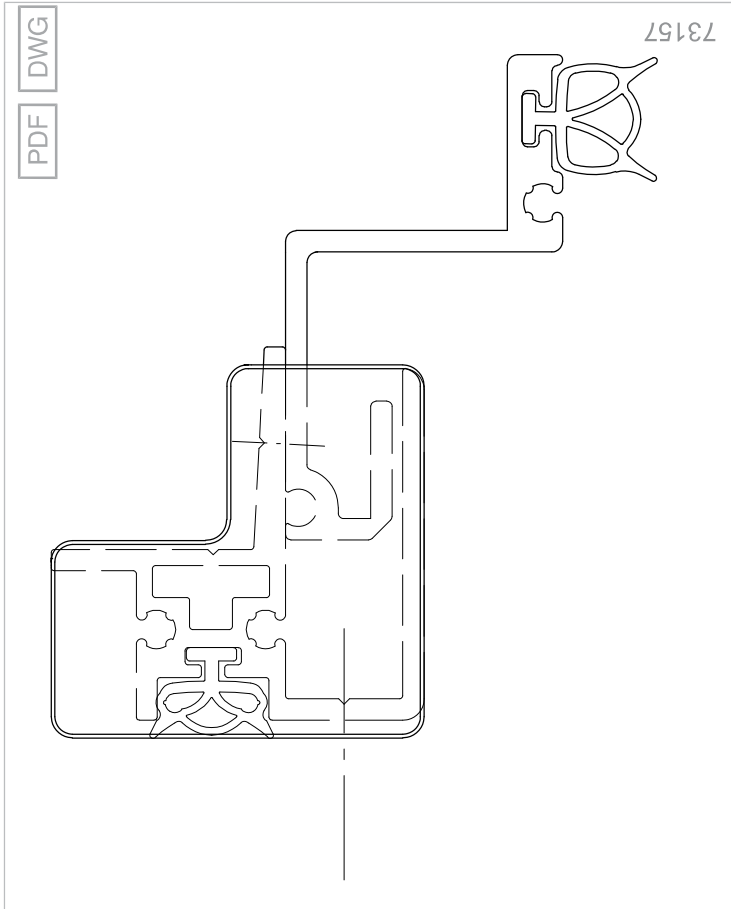
L60/L70, wall console, lateral facing, inner angle



L60/L70, offset wall console



Wall connection profile with small rain hood - L50/L60/L70



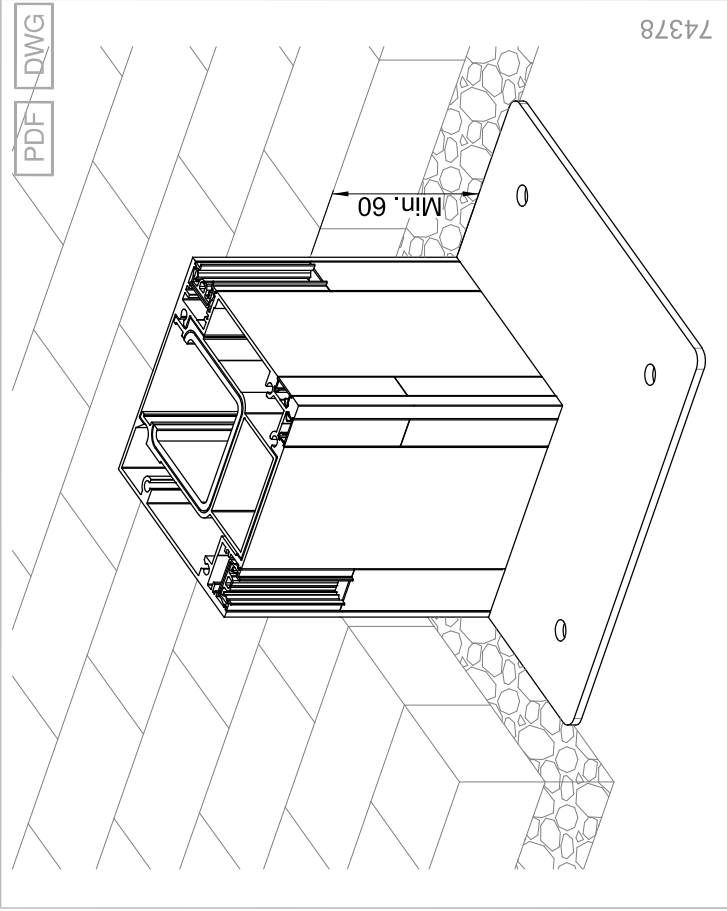
Additional product information

Pole installation options

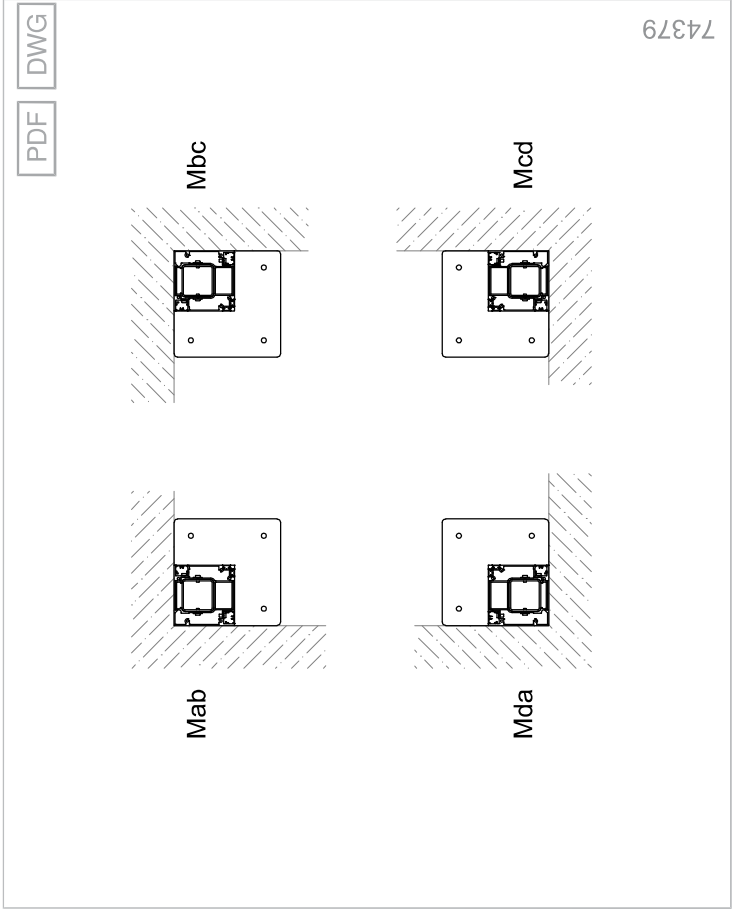
Ground installation with frost-proof on-site foundation, see slat roof guidelines (IVRSA).

Mounting examples

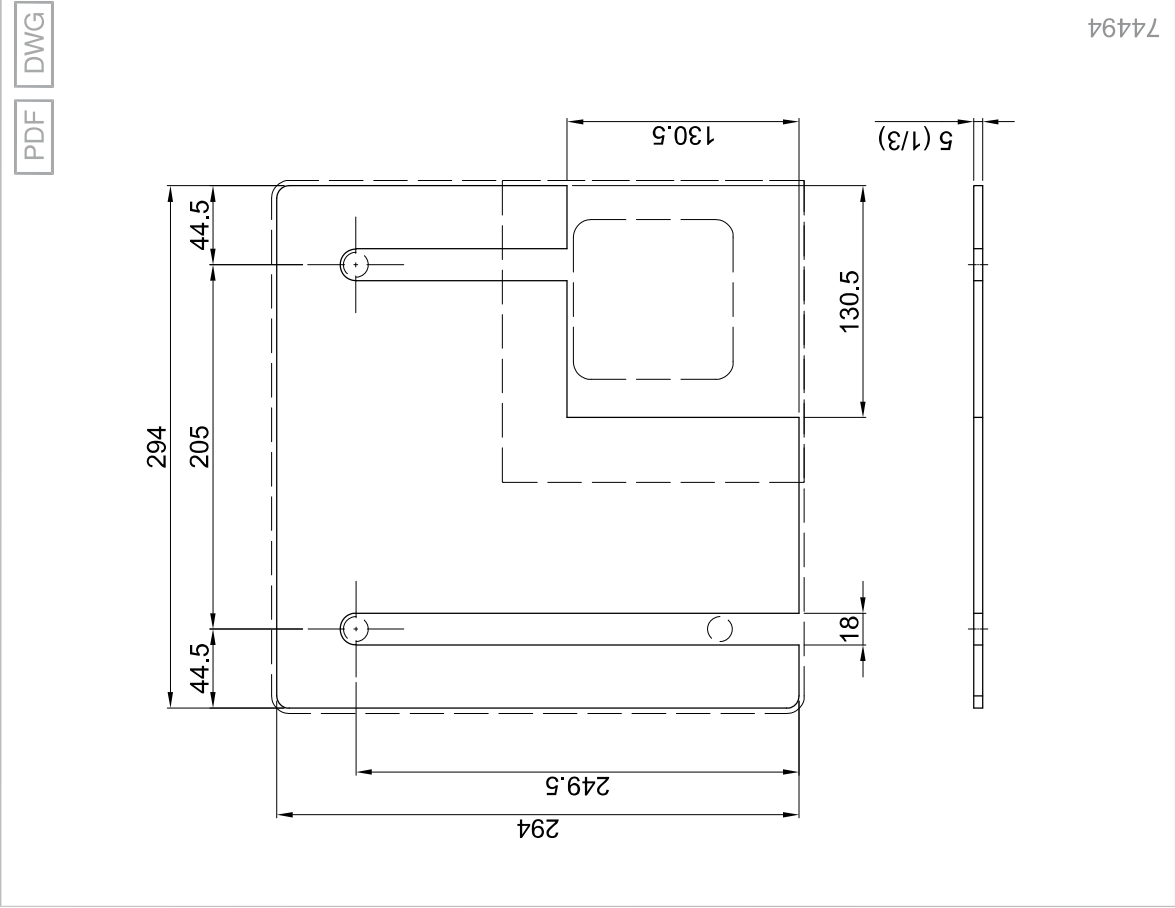
L60/L70, floor recess, separation cut



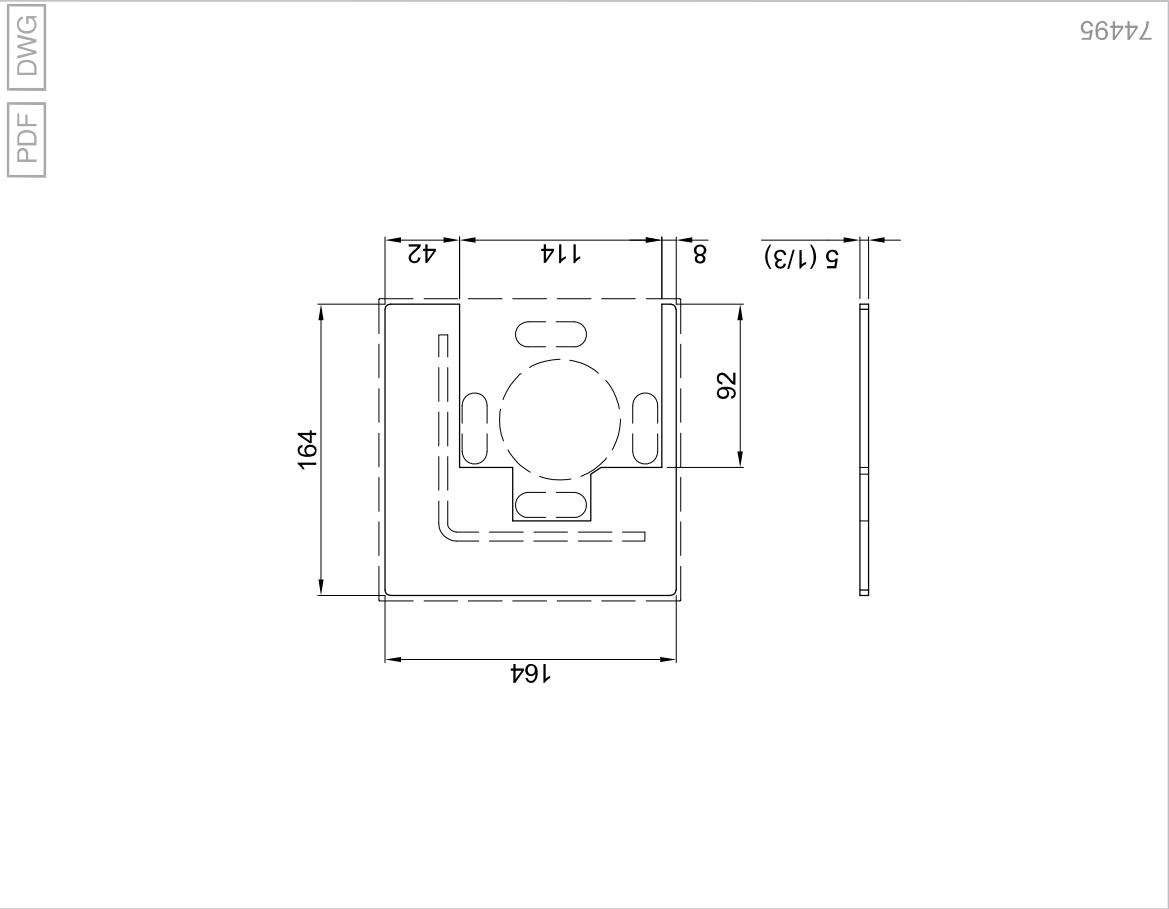
L60/L70, base plate corner installation



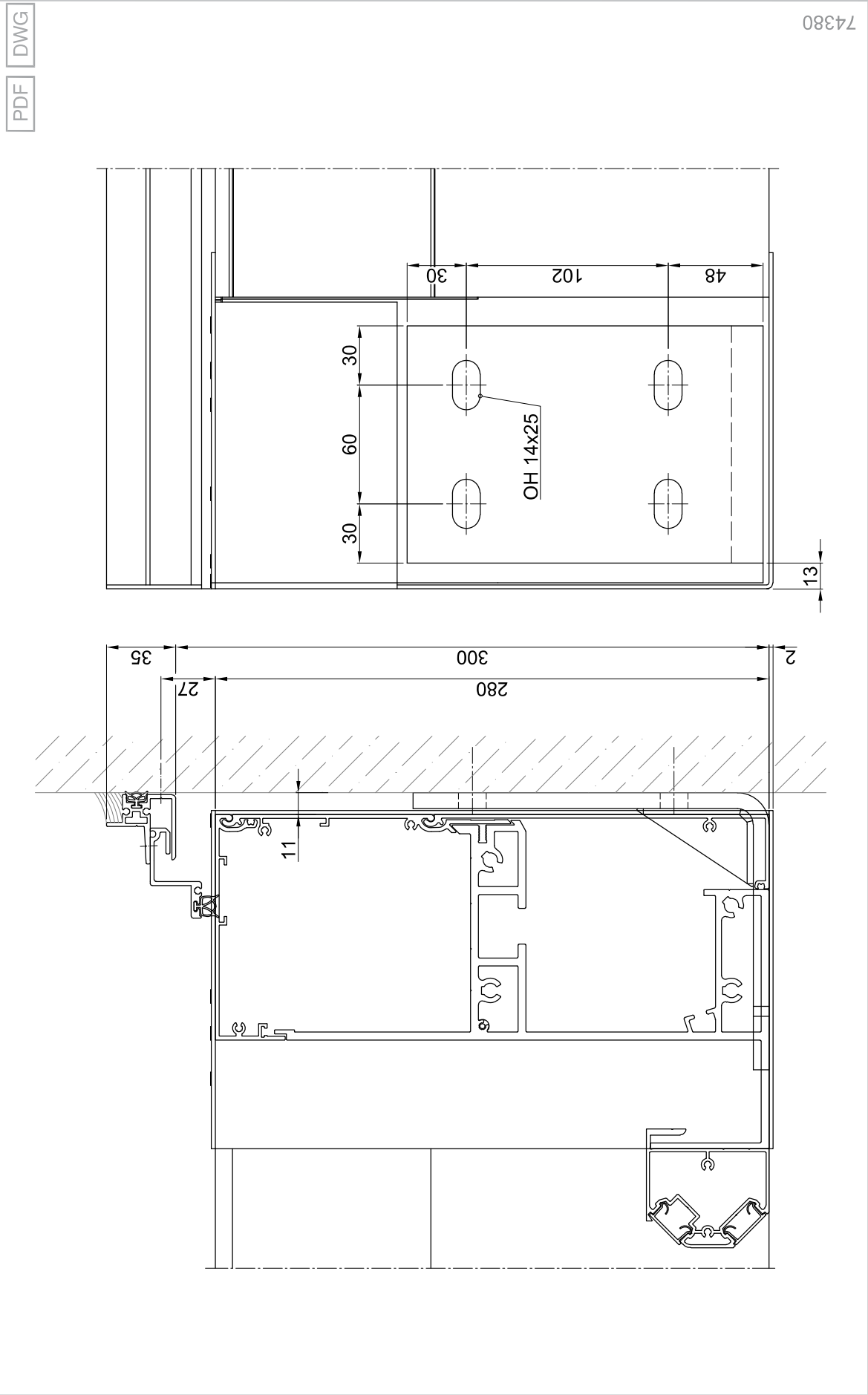
L60/L70, shim plate



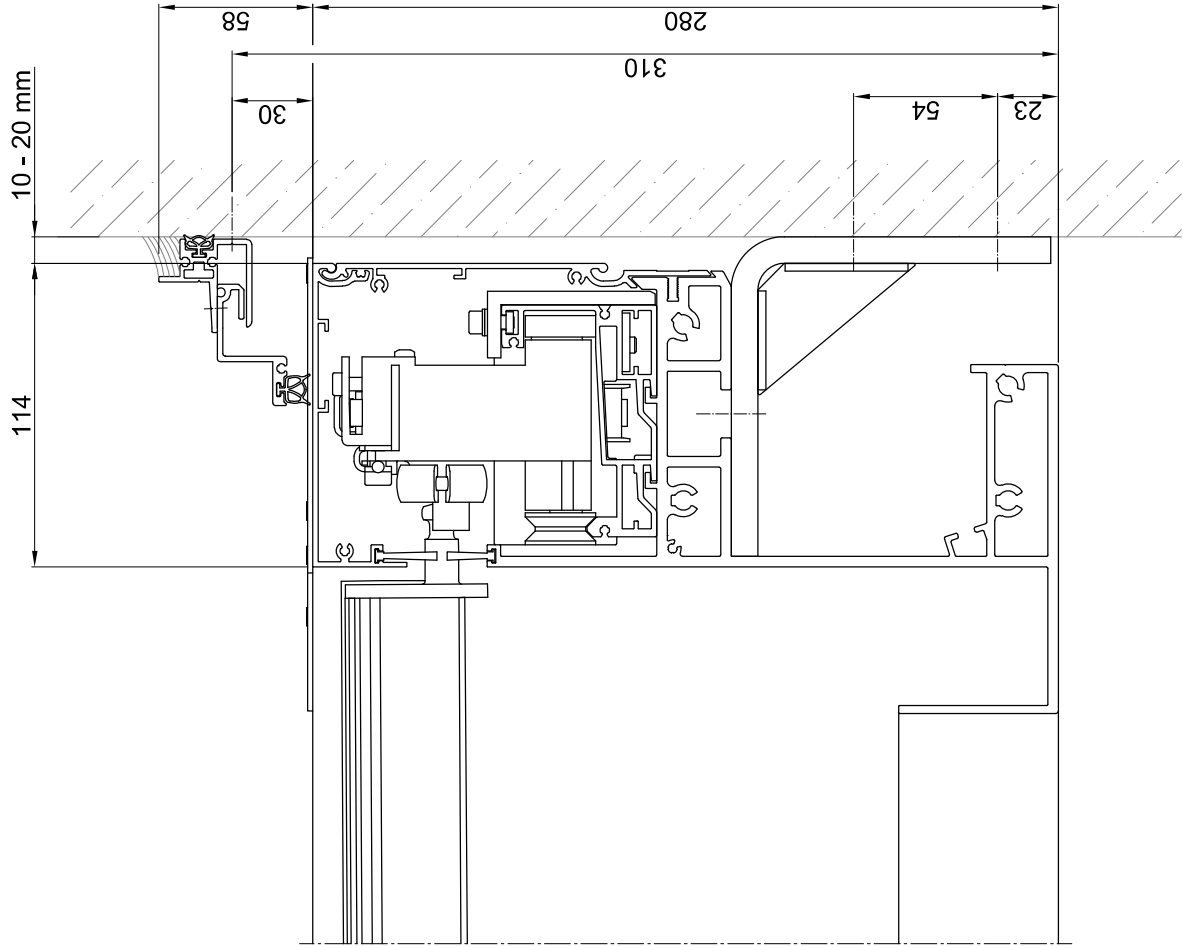
L60/L70, quarter shim plate



L60/L70, wall connection



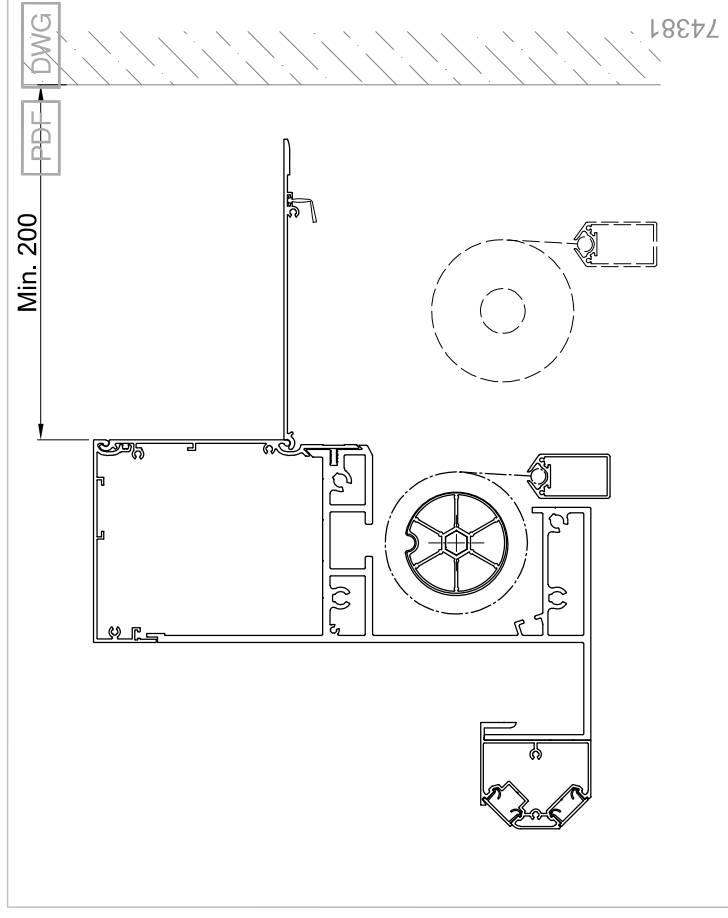
PDF DWG



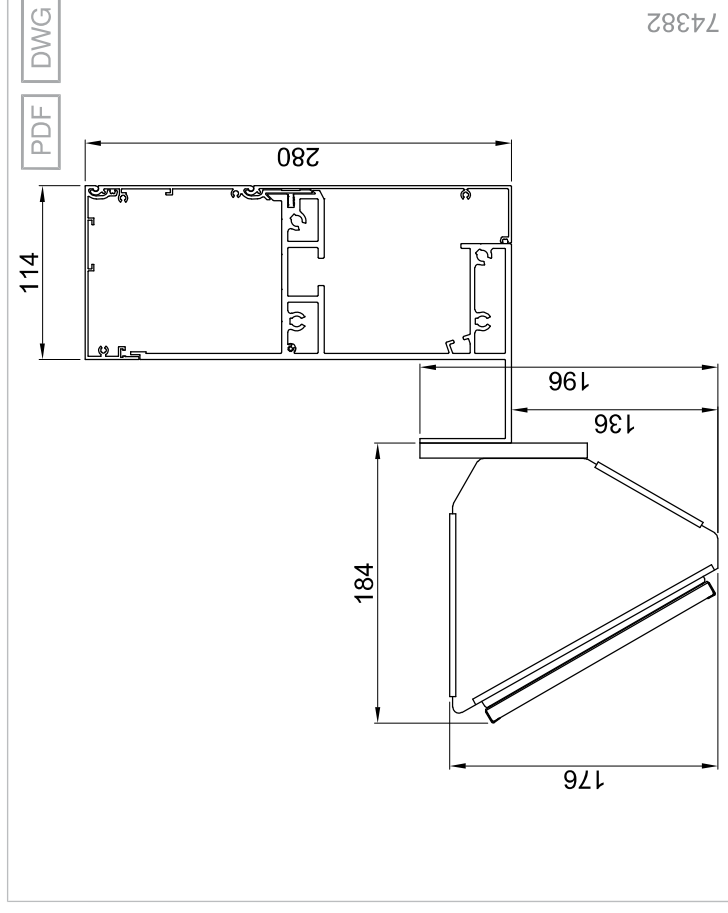
74490

In the case of the Free installation version with offset wall console, the beam cover is omitted, creating a gap between the beam and the installation point. Angle bracket or cover on request.

L60/L70, awning with easyZIP guidance, refurbishment



L60/L70, Design radiant heater





Planning

Slat roofs
Lamaxa

Glass roofs
Lamaxa

Fabric roofs
Lamaxa

Supplementary
accessories

Drive
variants

Standards



Roof systems

Slat roofs Lamaxa L60 Line

Elegantly connected

Shading of very large areas: With a central pole, several units can be elegantly lined up along the long as well as the short side.

Combinable

Double the flexibility: Combinations of the L60 (tiltable slats) and L70 (tiltable and movable slats) make individual solutions a possibility.

Year-round use

Protection in all weather: Depending on the type, the incidence of light can be adjusted to various levels with the pivotable slats – all the way to a complete closure of the slat roof.

Construction limit values

Maximum order width	9000 mm
Maximum order length	12000 mm
Maximum order area	54 m ²

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WAREMA tools

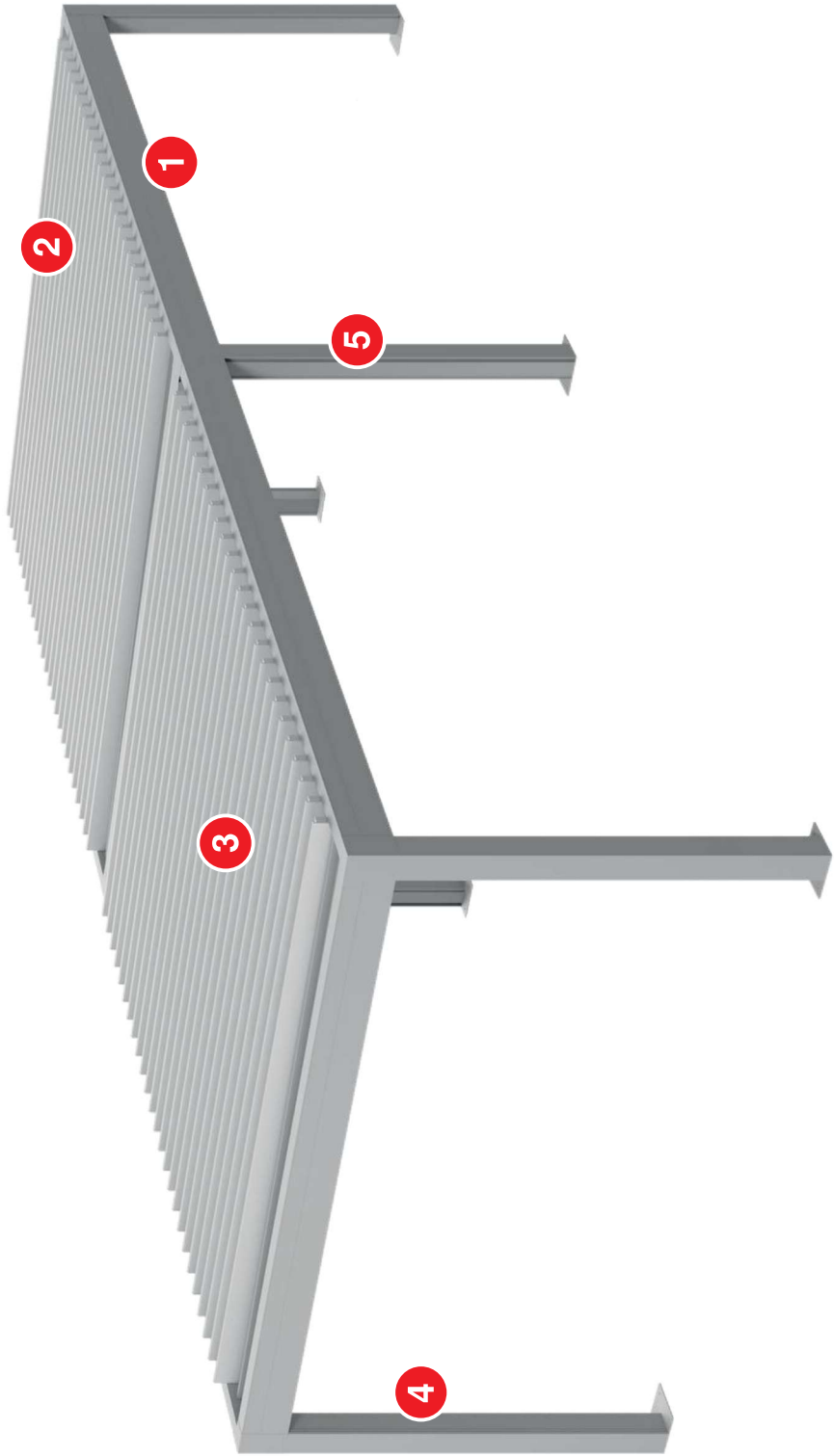
[Sun Shading Planner](#)

[see "Navigating the document", Page 5](#)



Components

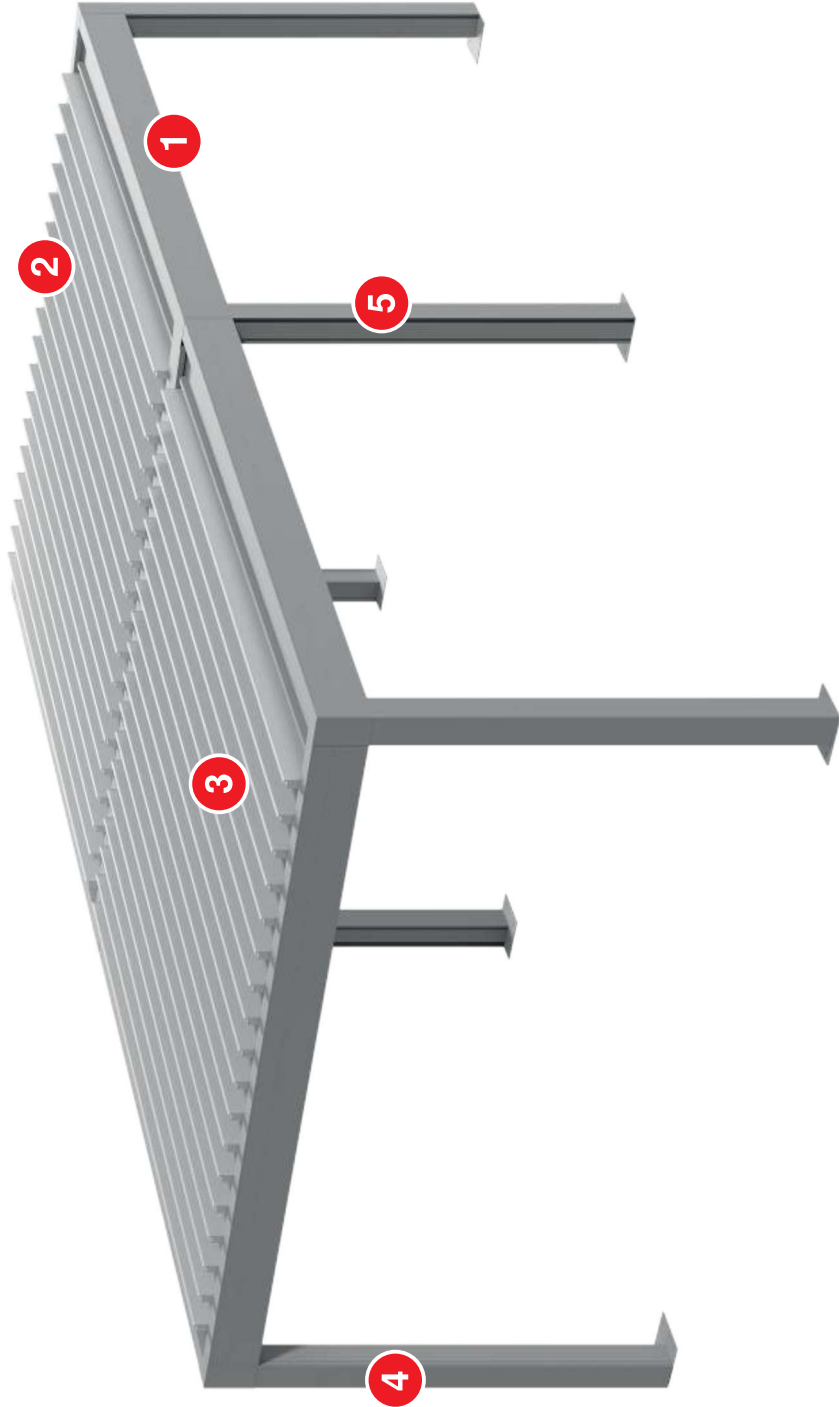
Lamaxa Line - L60/L70



- 1 Crossbeam with tilting mechanics
- 2 Crossbeam with motor
- 3 Slats

- 4 Pole
- 5 Middle pole

Lamaxa Line - L60/L70



- 1 Crossbeam with motor
- 2 Crossbeam with tilting mechanics
- 3 Slats

- 4 Pole
- 5 Middle pole

Planning

Slat roofs
Lamaxa

Glass roofs
Lamaxa

Fabric roofs
Lamaxa

Supplementary
accessories

Drive
variants

Standards

Slat

Slat - L60

Material	Aluminium, extruded
Surface	Powder-coated
Width	233 mm
Height	57 mm
Swivelling range	0 - 135 °

Pole

Pole - L60/L70

Material	Aluminium, extruded
Surface	Powder-coated
Width	170 mm
Height	170 mm

Installation options:

- Ground installation with frost-proof, on-site foundation.
- The grout for filling the clearance is not included in the scope of delivery when threaded rods are used.

Floor recess and separation cut:

- For a floor recess, we recommend the use of a separation cut in the inspection parts to allow for inspection without dismantling the floor.
- If the floor recess does not have a separation cut, the easyZIP guidance inlays and the integrated LED strips reach the bottom edge of the pole profile.
- Floor recesses with a separation cut must be at least 60 mm.

Centre pole - L60/L70 Line

Material	Aluminium, extruded
Surface	Powder-coated
Width	170 mm
Height	170 mm

Installation options:

- Ground installation with frost-proof, on-site foundation.
- The grout for filling the clearance is not included in the scope of delivery when threaded rods are used.

Floor recess and separation cut:

For a floor recess, we recommend the use of a separation cut in the inspection parts to allow for inspection without dismantling the floor. If the floor recess does not have a separation cut, the easyZIP guidance inlays and the integrated LED strips reach the bottom edge of the pole profile.

Pole, optional

Pole guide rails - L60/L70

Material	Aluminium, extruded
Surface	Powder-coated
Width	170 mm
Height	170 mm

If an easyZIP awning is installed in a field in which a wall console is installed, a separate pole is required below the wall console. Inward or outward drainage through guide rail poles possible. Only corner base plate possible.

Base plate

Base plate - corner installation L60/L70

Material	Galvanised steel
Surface	Plain
Optional surface	Powder-coated
Width	300 mm
Height	300 mm

Base plate - internal L60/L70

Material	Galvanised steel
Surface	Plain
Optional surface	Powder-coated
Width	170 mm
Height	170 mm

Since the material thickness is generally visible, the internal base plate should be coated if there is no floor recess.

Crossbeam

Crossbeam - L60/L70

Material	Aluminium, extruded
Surface	Powder-coated
Width	169 mm
Height	280 mm

Middle crossbeam - L60 Line

Material	Aluminium, extruded
Surface	Powder-coated
Width	170 mm
Height	280 mm

Electrical distribution on the crossbeam

Material	Aluminium, extruded
Surface	Powder-coated
Width	91,5 mm
Height	174 mm

Drainage

Drainage in pole - L60/L70 Line

- Drainage through drainpipe in pole
 - If each roof crown is smaller than 16 m², one drainage point per roof is sufficient to comply with an average rainfall event $r5/2 = 350\text{ l/(s ha)}$. If a roof crown is $\geq 16\text{ m}^2$, it must be equipped with a second drainage point.
 - To withstand average rainfall, three drainage points are sufficient for a total area of up to 54 m^2 if each roof is equipped with a separate drainage point plus a third common drainage point at the centre pole.
- Position of drainage outlet:**
- Possible on every pole
 - Drainage and electronics/connecting lines must always be installed in separate poles.
 - On the outsides of the poles or downward
 - Min. height: 150 mm/height: 40 mm (for internal base plates)
 - Max. height: 250 mm below the headroom

Note: Downward drainage through base plate:

When planning and measuring, please note that the concrete foundation must be very precisely manufactured if downward drainage through the base plate is required!

Wall connection profile, optional

Wall connection profile with small rain hood

Material	Aluminium, extruded
Surface	Powder-coated
Width	54 - 65 mm
Height	48 mm

Dimensions, notes	The adjustment range in the depth between rain hood and wall connection profile is up to 11 mm.
-------------------	---

The on-site sealing is the responsibility of the specialist partner; if necessary, the commissioning of a plumbing company is recommended.

Field of application:

- Terrea K50
- Terrea K70
- Perea P20 (up to an angle of 10°)
- Lamaxa L50/L60/L70

Console, optional

Wall console - Lamaxa L60/L70

Material	Galvanised steel
Surface	Powder-coated
Width	120 mm
Height	180 mm
Depth	140 mm

- Use in corner as pole replacement.
- A maximum of two poles can be replaced by wall consoles.
- For a concrete mounting substructure; adapter plates are required for other substructures.
- The wall console protrudes 11 mm beyond the order width and order length. This results in a gap of 11 mm between the crossbeam and the wall.
- For inner angle wall consoles, the lateral corner area is not covered by profiles.

Offset wall console - Lamaxa L60/L70

Material	Aluminium, extruded
Width	200 mm
Height	120 mm
Depth	120 mm

- For attachment to Tb and/or Td.
- Use in corner as pole replacement or as Free installation.
- A maximum of 4 poles can be replaced by offset wall consoles.
- For a concrete mounting substructure; adapter plates are required for other substructures.
- In the case of the Free installation version with offset wall console, the beam cover is omitted, creating a gap between the beam and the installation point. Angle bracket or cover on request.

Drive variants

- Motor

Motor

- WMS-LP (WMS)

+ see "Drive variants", Page 201

Colours

- WAREMA Colour World, Highlight category, fine texture surface quality
- WAREMA Colour World, Variation category, fine texture surface quality

Colours, optional:

- WAREMA Colour World

+ see "Colours and finishes", Page 10

Planning

Slat roofs
Lamaxa

Glass roofs
Lamaxa

Fabric roofs
Lamaxa

Supplementary
accessories

Drive
variants

Notes

Notes on product configuration

Series-mounted units:

- If the distance between the facade and the centre pole is ≥ 300 mm, integrated awnings with easyZIP guidance can be installed in the fields adjacent to the centre pole. If the distance is < 300 mm (minimum distance 10 mm), no easyZIP awnings can be installed in the adjacent fields (retrofitting is also not possible).
- Generally, unit coupling (drive coupling) is not possible.
- Flush closures allow two slat roofs to be centrally mounted in-series on one common pole.
- The two slat roofs can overlap either at the order width or order length and have the same closing and extension direction (no counter-rotation).
- The order length or order width is dimensioned to the centre axis of the centre pole.
- The electrical distribution of the respective units is located on the crossbeam. The corresponding connecting line is required in a pole adjacent to the electrical distribution.
- If both electrical distributions are positioned on the overlapping crossbeams, the on-site power supply is possible via a centre pole.
- A combination of L60 and L70 is possible in both joint directions.
- It is possible to integrate easyZIP or LEDs into any side of the pole (but not below the double crossbeam in the joint area).

Construction limit values

Configuration variants	Minimum order width		Maximum order width		Minimum order length		Maximum order length		Maximum order area		Minimum headroom		Maximum headroom	
Slat														
Slat - L60	2500 mm		9000 mm		2000 mm		12000 mm		54 m ²		2350 mm		2700 mm	

- RGB lighting of both units can be learned in to an RGB hand-held transmitter.
- One drainage point per 16 m² of roof area is sufficient per unit. Three drainage points are sufficient for a total area of up to 54 m² if each roof is equipped with a separate drainage point plus a third common drainage point at the centre pole.

Notes on installation

Limit position learning:

The WAREMA Smart programming cable is required to set the motor limit positions.

Notes on operation

To ensure convenient and fast operation of the slat roof, we recommend WMS WebControl pro (control via smartphone, tablet, etc.) and WMS Weather station plus in order to use the control modes (e.g. sun control).

Supplementary accessories

- Design radiant heater
- Lamaxa lighting
- Integrated awnings with easyZIP guidance
- Additional pole - L60/L70
- Glass sliding system SL20e
- Sliding shutters - L50/L60/L70
- Power socket
- Protection profile

➕ see "Supplementary accessories", Page 143

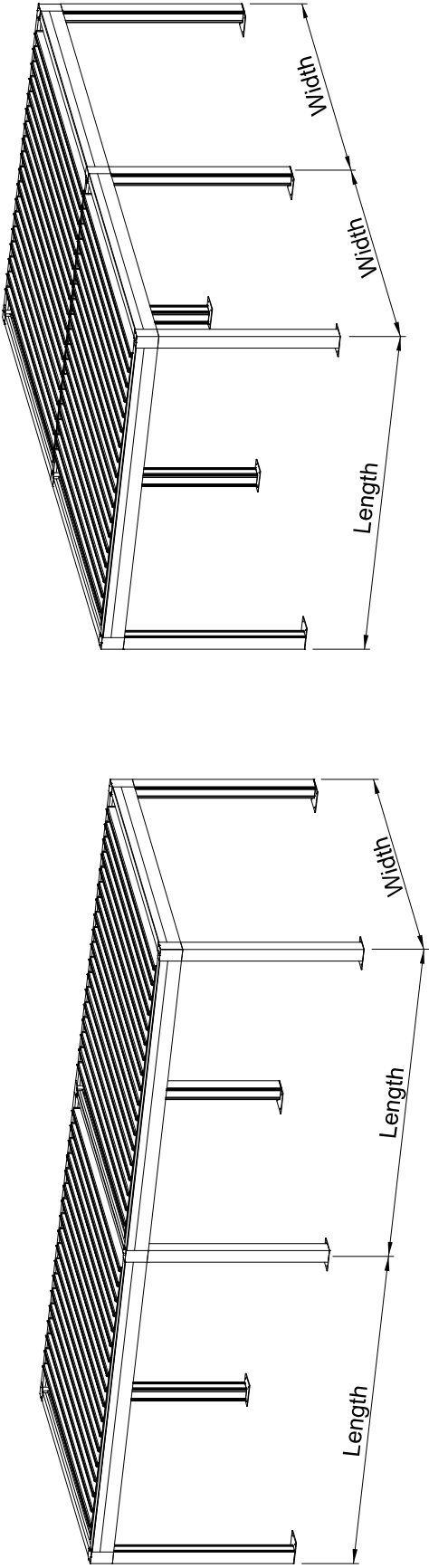
Dimension determination

The headroom of each pole can be ordered individually (e.g. in case of a sloping finished floor).

L60, Lamaxa Line

PDF

DWG



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Lamaxa

Glass roofs

Planning

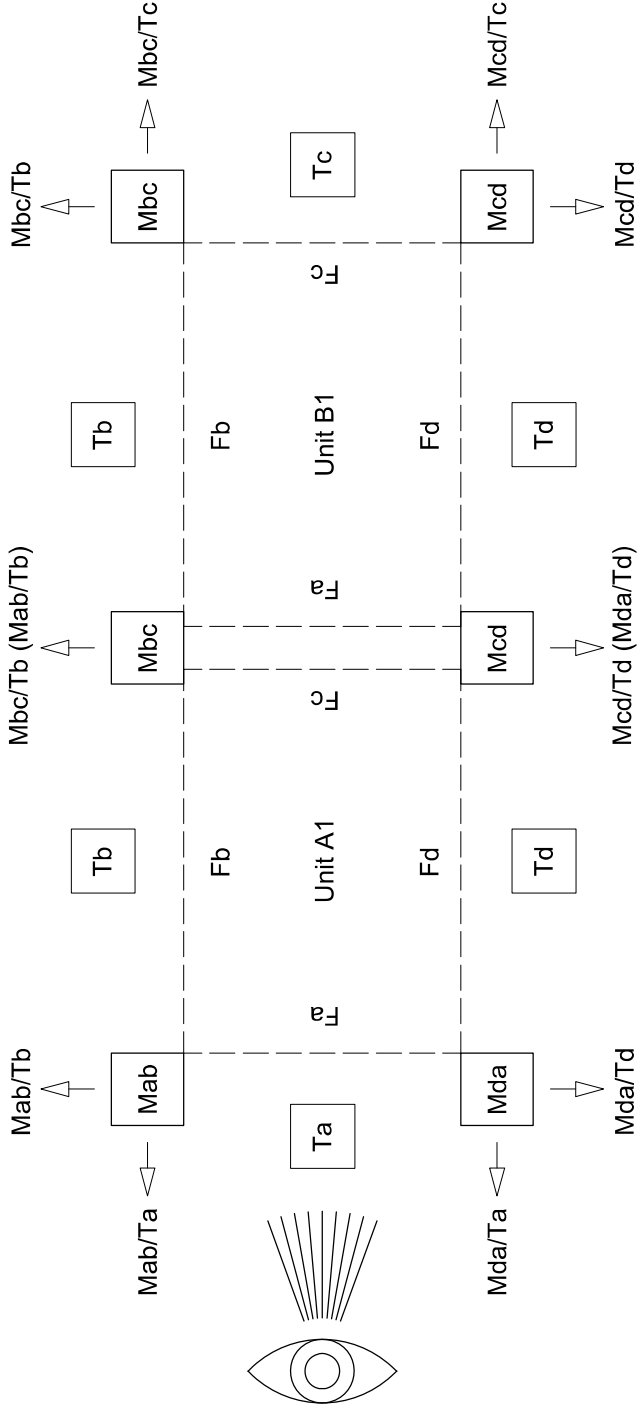
Slat roofs
Lamaxa

Glass roofs
Lamaxa

Top view of the position/connection points - Lamaxa Line L50/L60/L70

PDF

DWG



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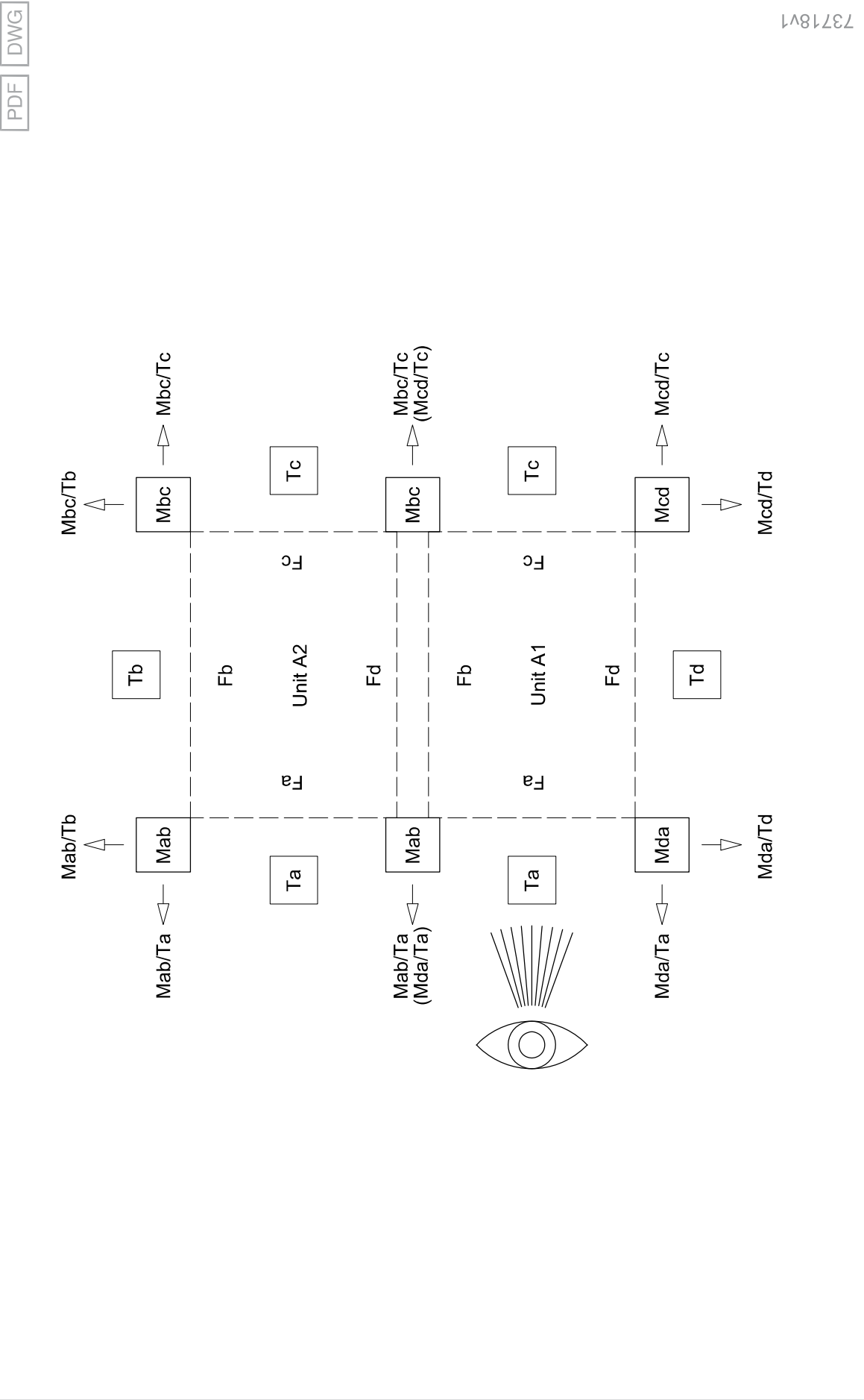
Lamaxa

Supplementary accessories

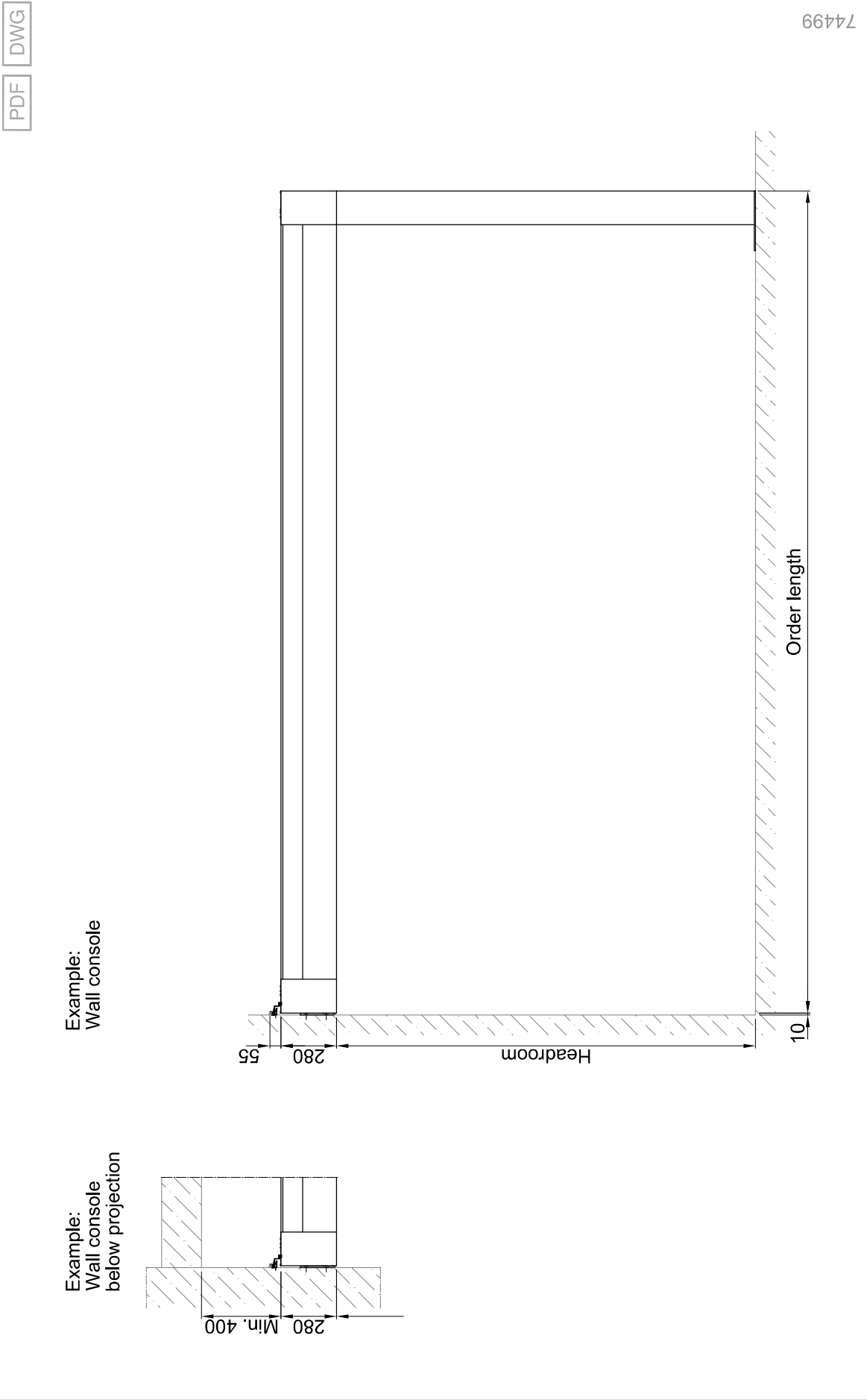
- F Field
- M Point of installation (pole or wall connection)

T Crossbeam

Drive
Variants



L60/L70 Line, wall connection, wall console



Optimum order length - L60 Line

Order length (joint order length)	Order length (joint order width)	Number of slats
2000	2000	7
2178	2094	8
2398	2314	9
2618	2534	10
2838	2754	11
3058	2974	12
3278	3194	13
3498	3414	14
3718	3634	15
3938	3854	16
4158	4074	17
4378	4294	18
4598	4514	19
4818	4734	20
5038	4954	21
5258	5174	22
5478	5394	23
5698	5614	24
5918	5834	25

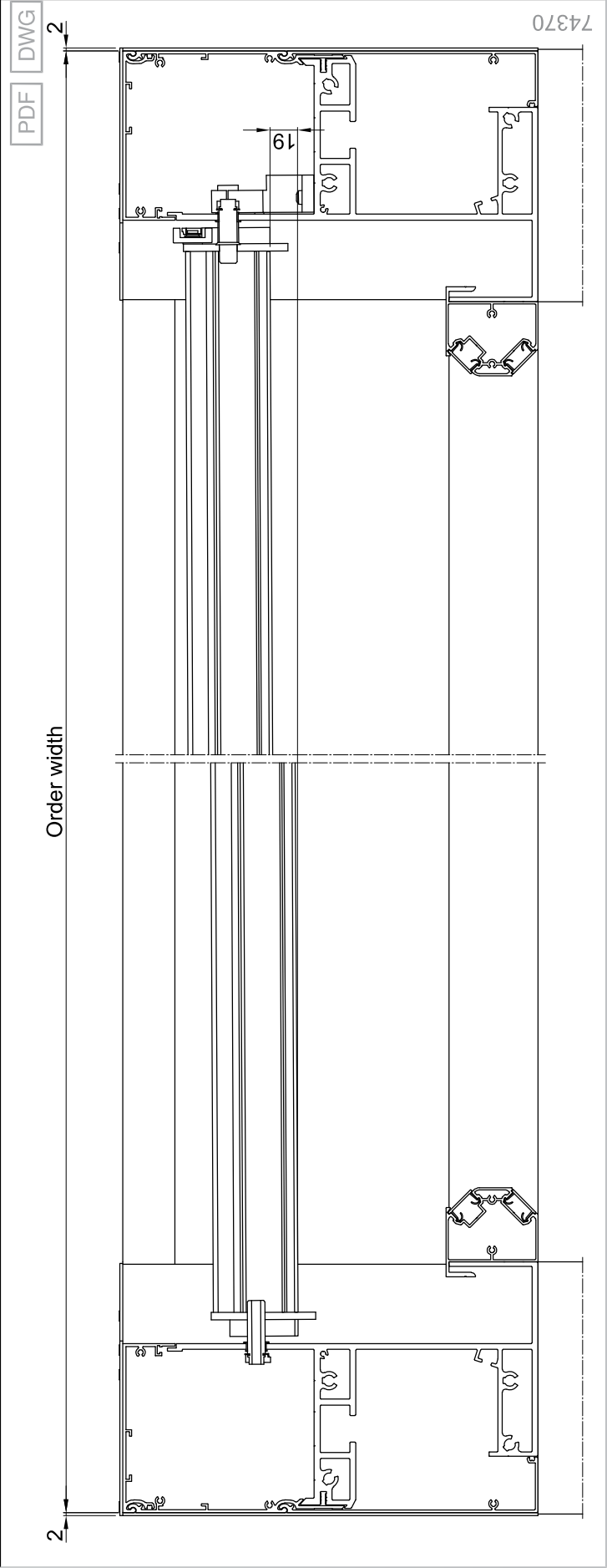
Order length:

The order length in the table is the dimension with the smallest possible length equalization plates and hence corresponds to the optimum order dimension (except order length 2000 mm).

Optimum order length for Lamaxa L60/L70 Line = roof crown

Details

L60, slat inclination



Planning

Slat roofs
Lamaxa

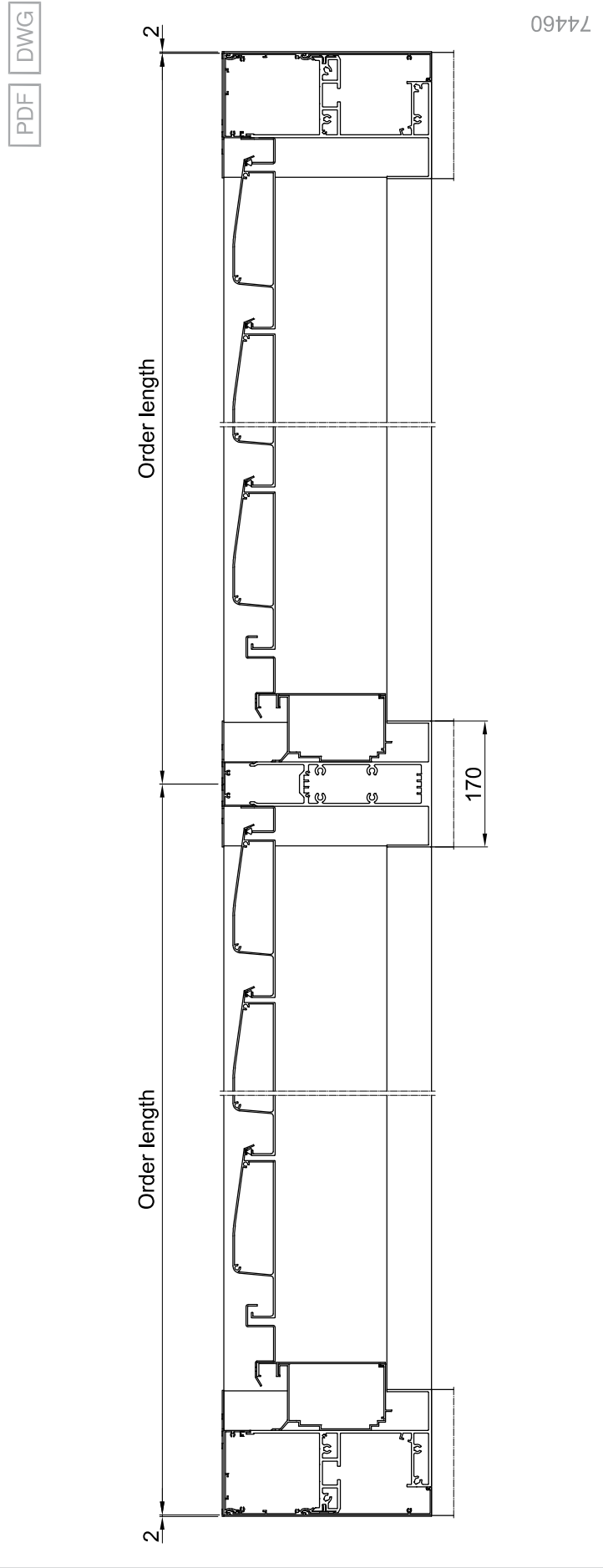
Glass roofs
Lamaxa

Fabric roofs
Lamaxa

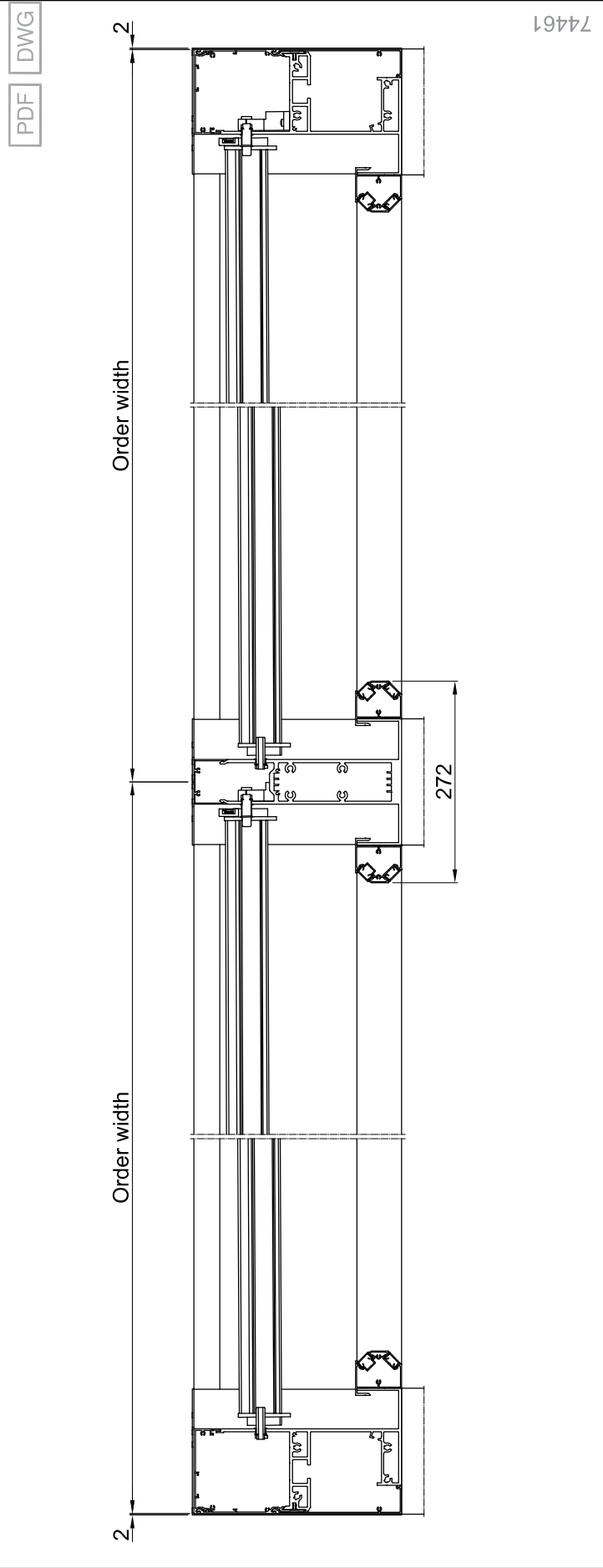
Supplementary
accessories

Drive
variants

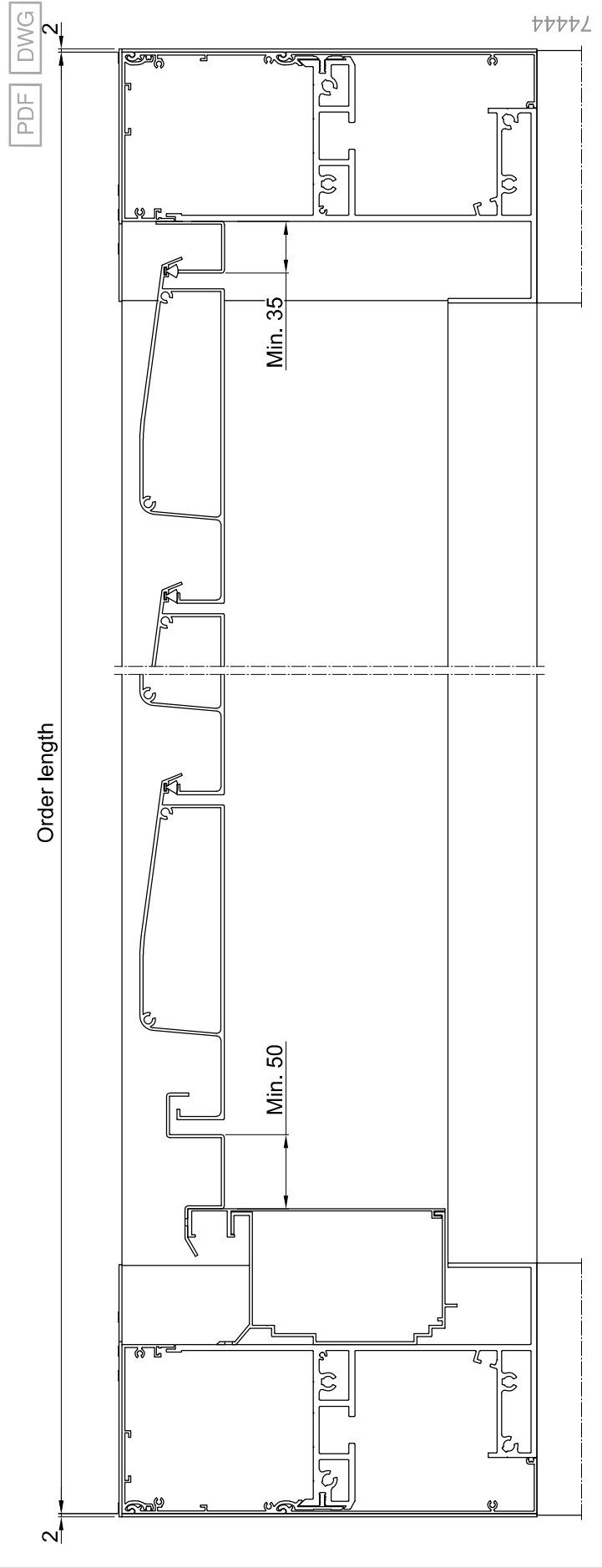
L60 Line, joint order width

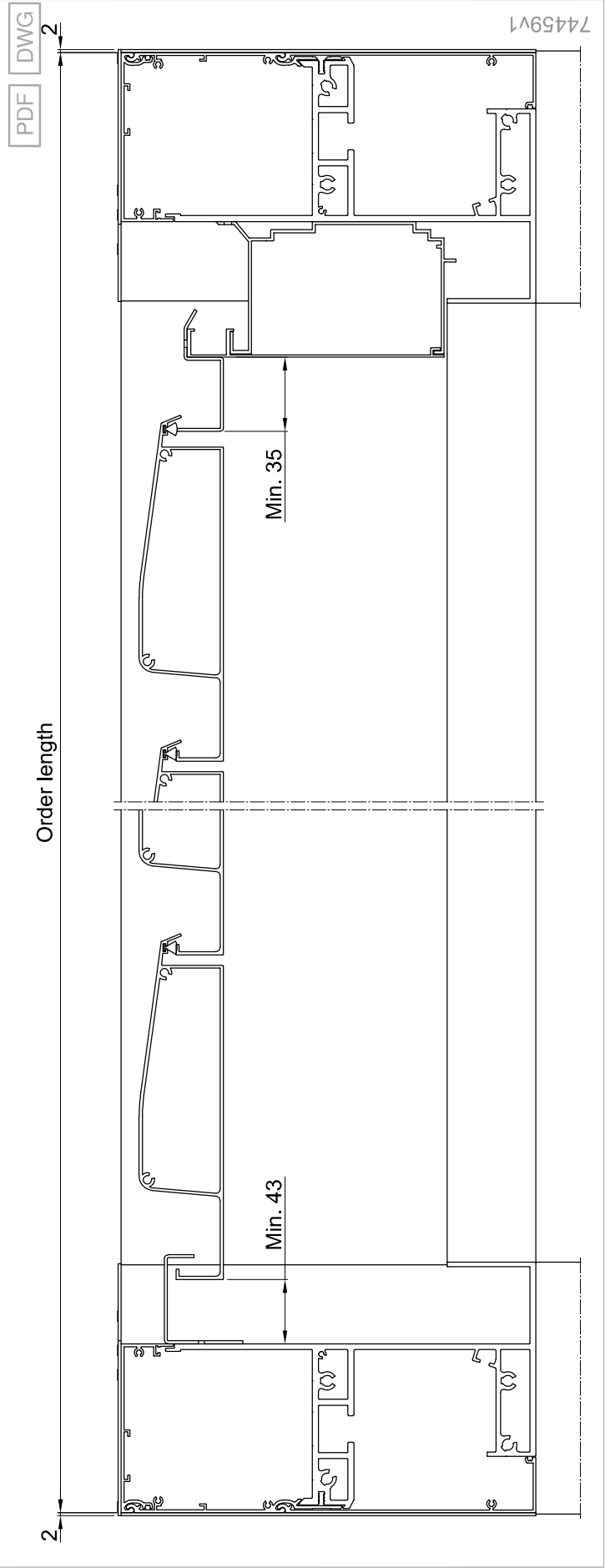


L60 Line, joint order length



L60, length compensation plates, electrical distribution on crossbeam a





Planning

Slat roofs
Lamaxa

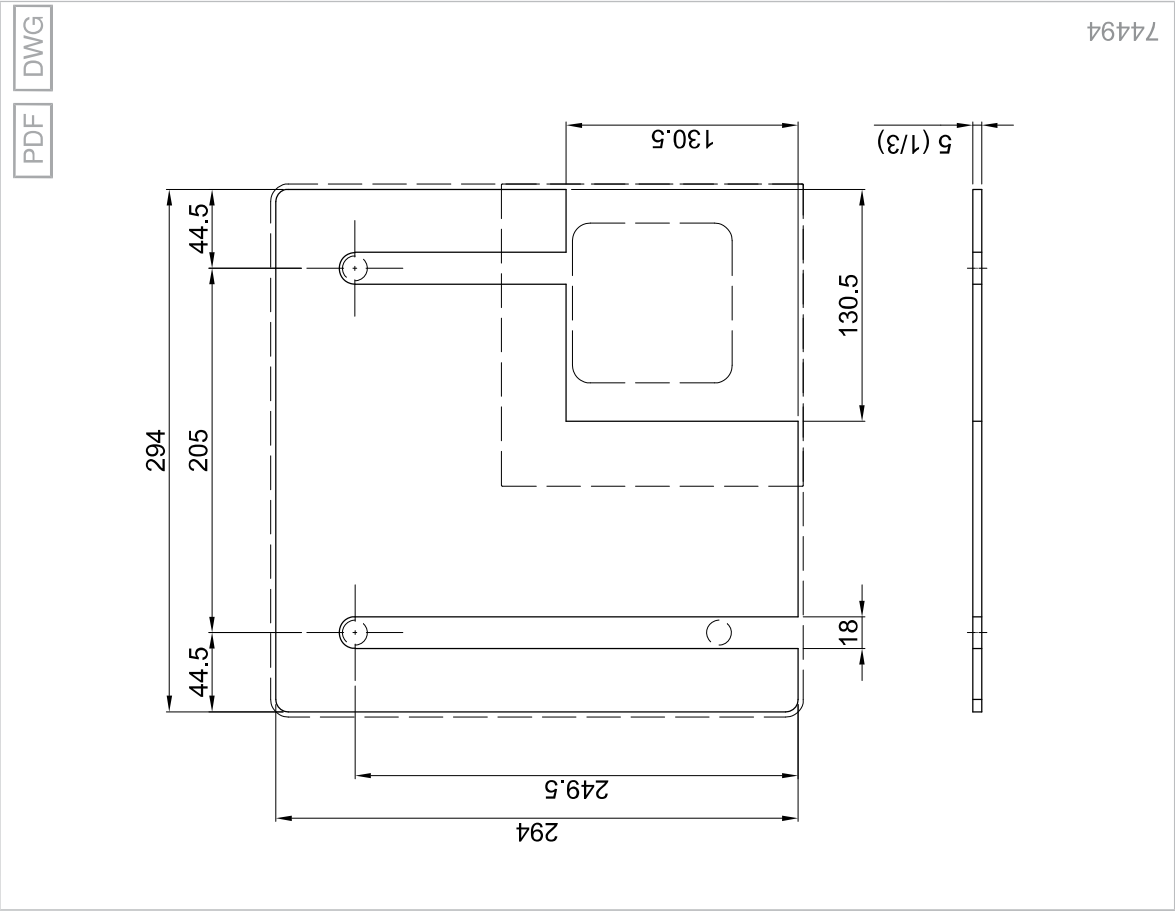
Glass roofs
Lamaxa

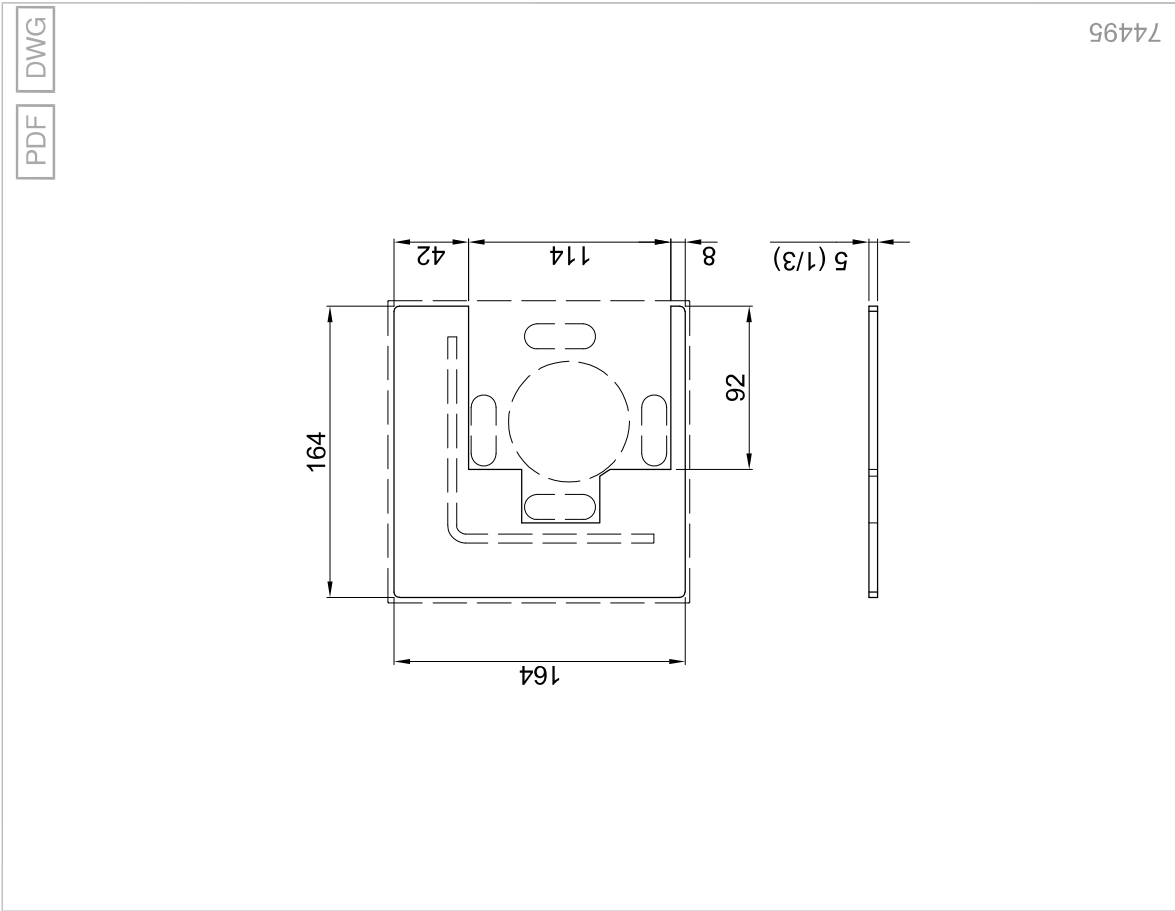
Fabric roofs
Lamaxa

Supplementary
accessories

Drive
variants

L60/L70, shim plate





Additional product information

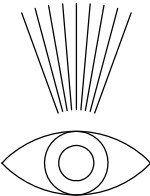
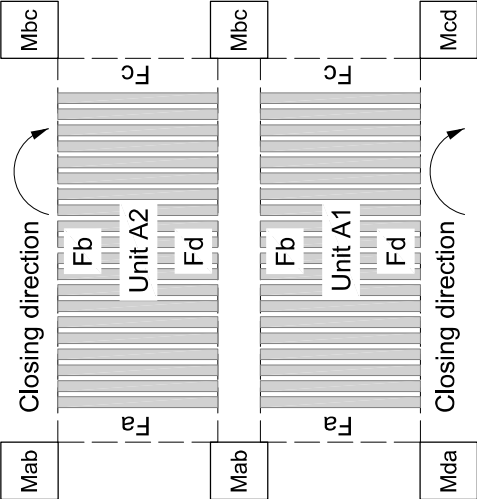
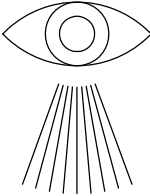
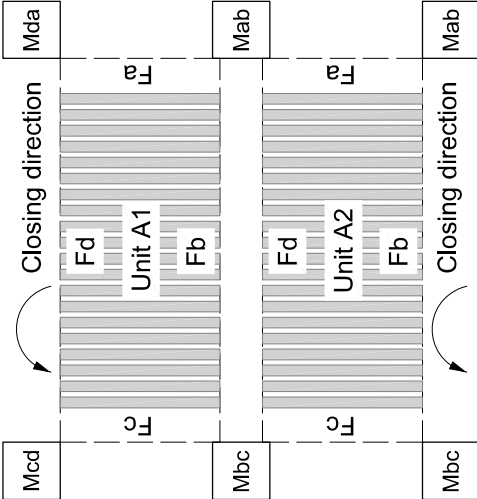
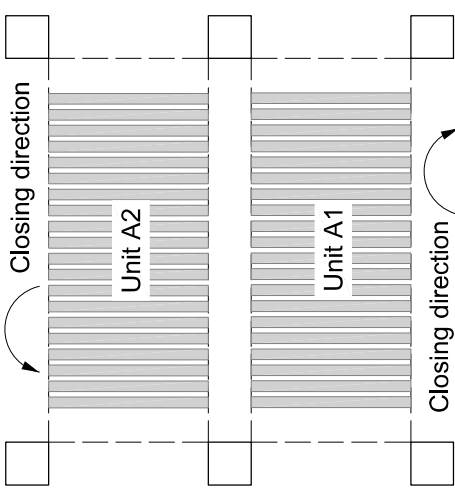
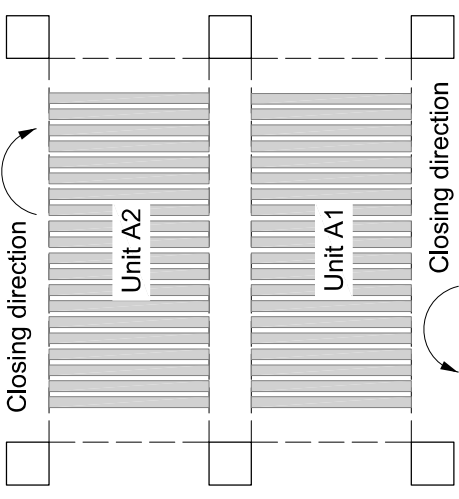
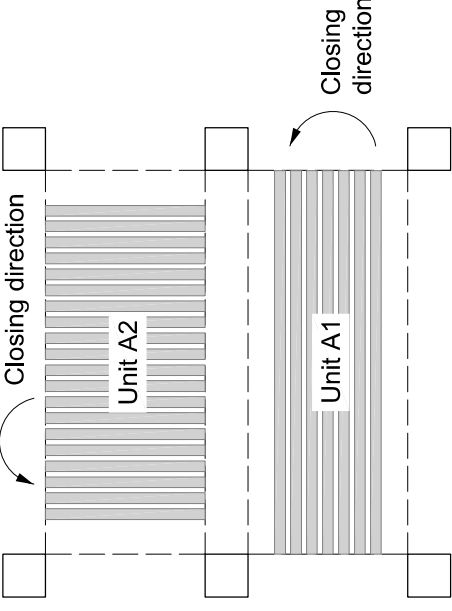
Pole installation options

Ground installation with frost-proof on-site foundation, see slat roof guidelines (IVRSA).

Mounting examples

Joint order width - Lamaxa Line L50/L60

Standards		Drive variants		Supplementary accessories		Fabric roofs Lamaxa		Glass roofs Lamaxa		Slat roofs Lamaxa		Planning	
</													

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