

METAFORM SHADING SYSTEMS



TECHNICAL MANUAL

TOP STAR

WWW.METAFORM.GR



metaform shading systems

TOP STAR



Pergola **Top Star**

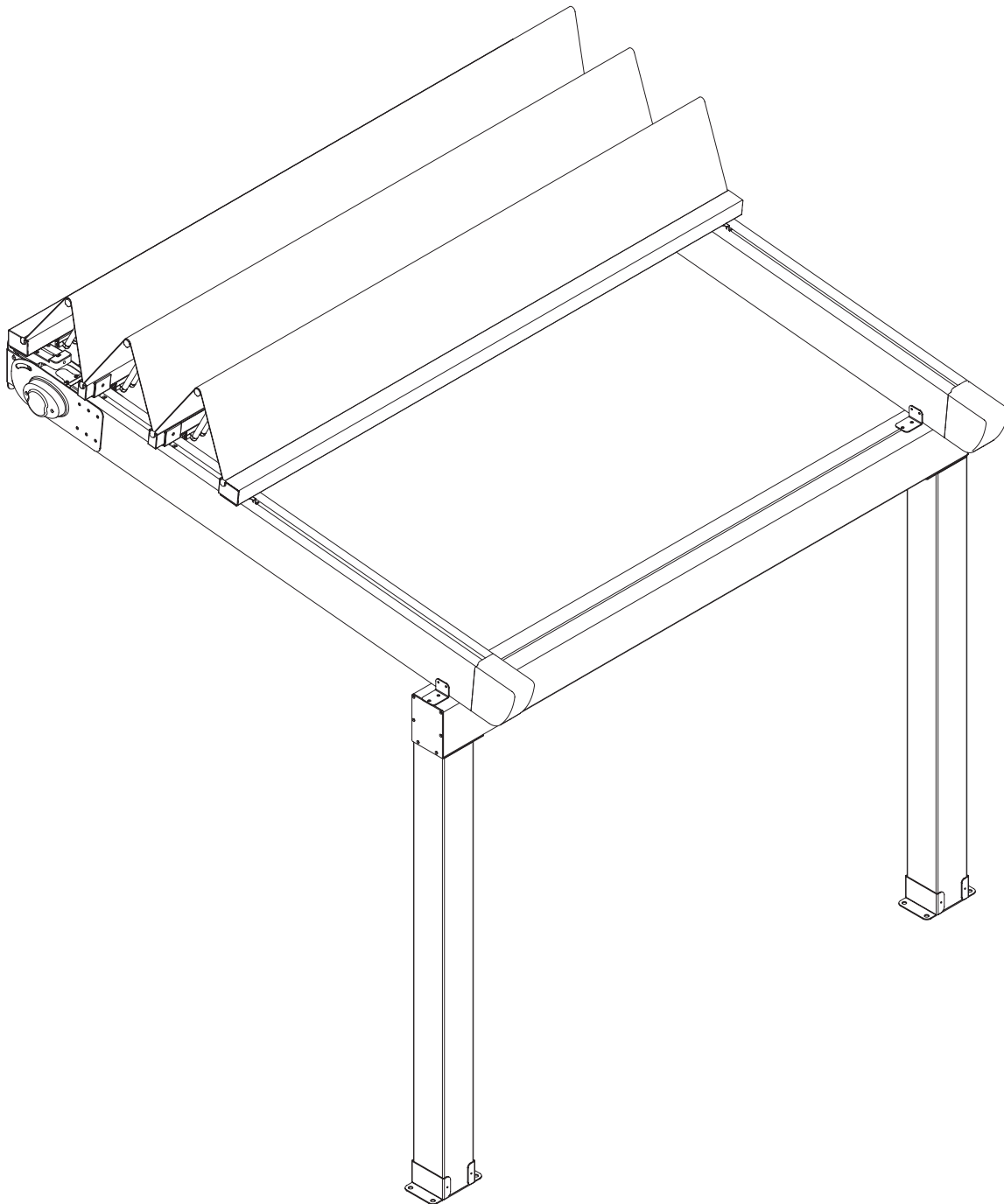
| | |
|---|----|
| General image of TOP STAR pergola | 6 |
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Pergola **Top Star**

General view of the pergola.

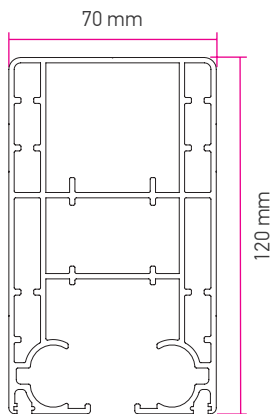
Exclusively designed by Metaform SA, this is an innovation in professional shading, as the pioneering lift system allows you to install the product on any pre-existing construction.

Retractable, manufactured from a special alloy of highly durable aluminium.

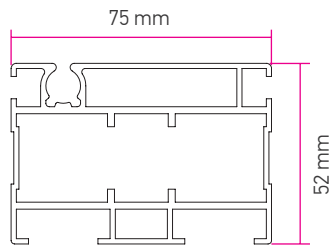


Pergola **Top Star**

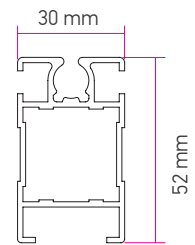
Profile cross-sections.



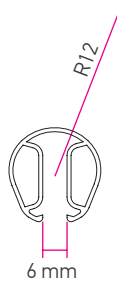
① rafter 70X120



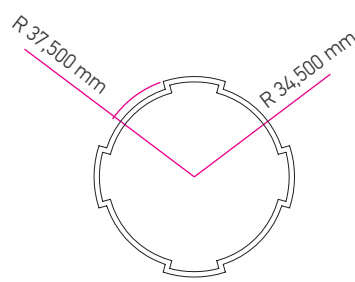
② wide counterweight 75x52



③ narrow counterweight 30x52



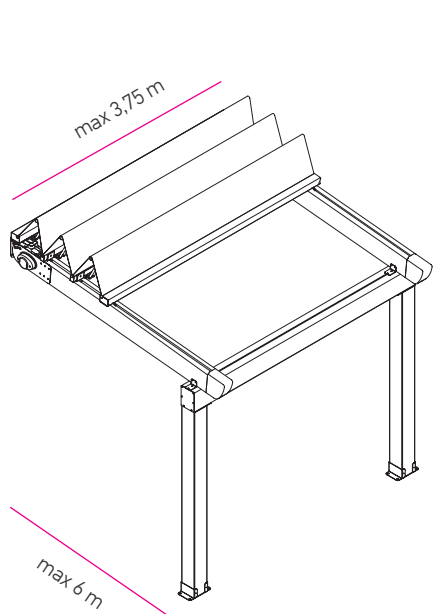
④ lifting tube



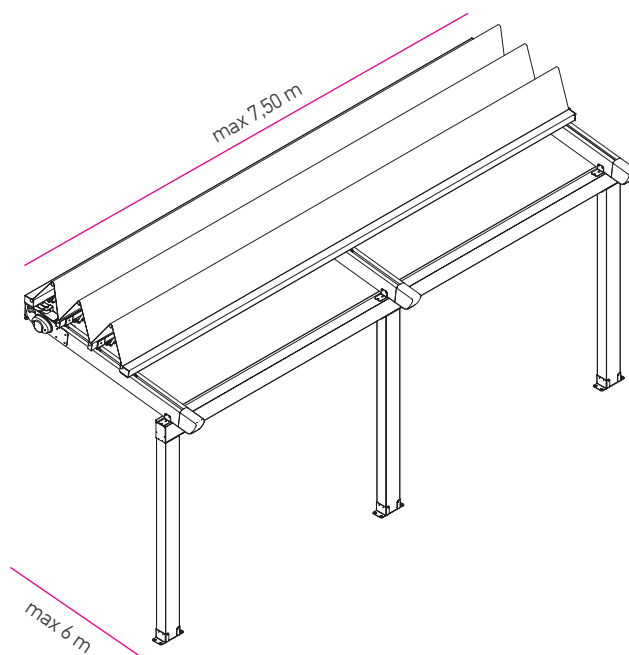
⑤ tube
(not shown in diagram)

Pergola **Top Star**

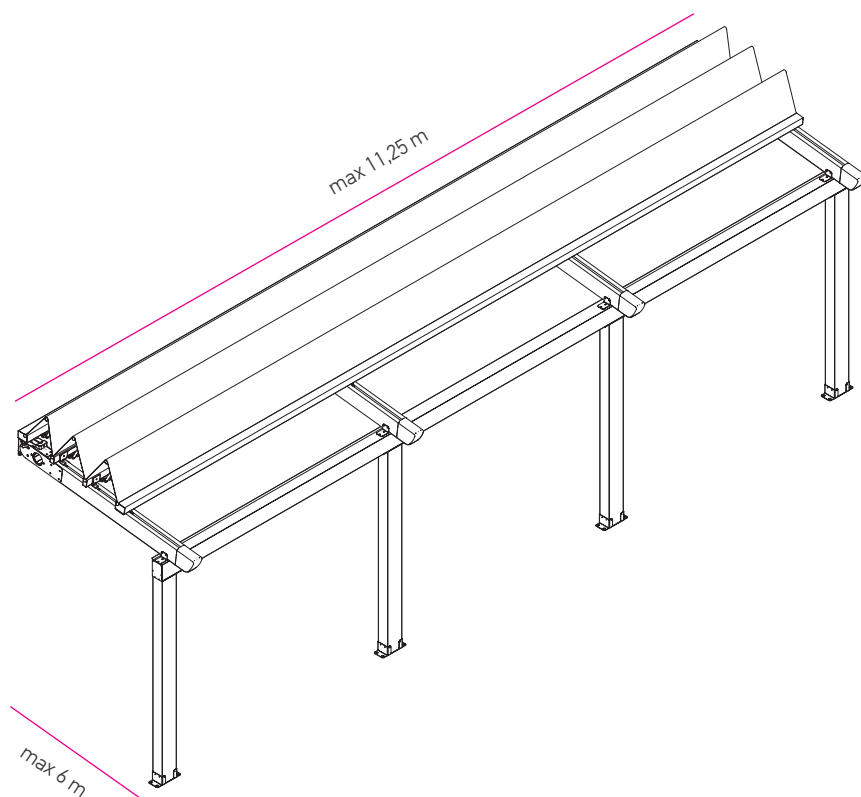
Maximum pergola projection & maximum rafter distance.



2 rafters



3 rafters

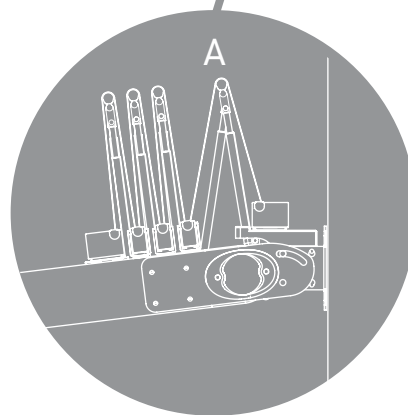
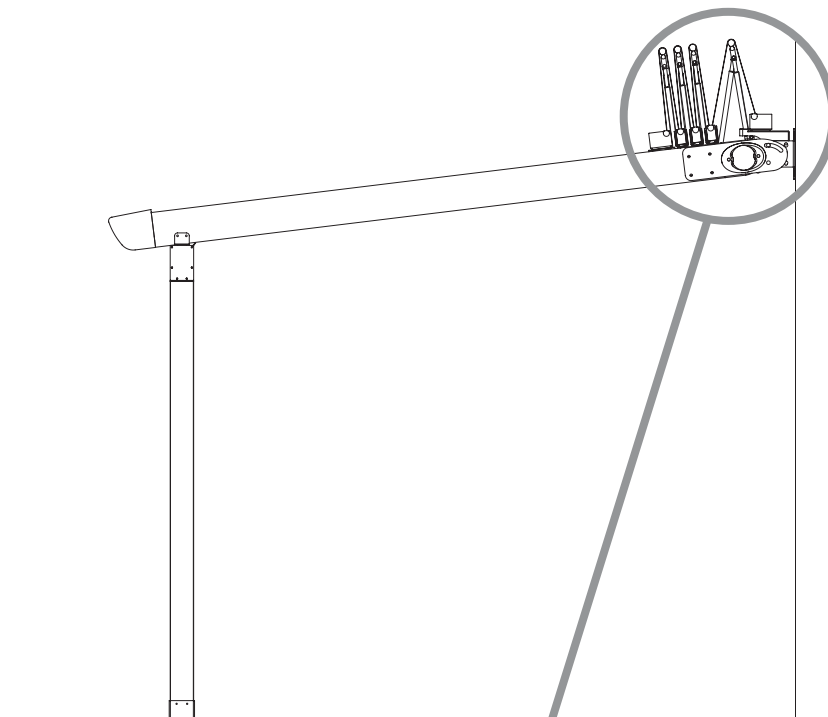


4 rafters

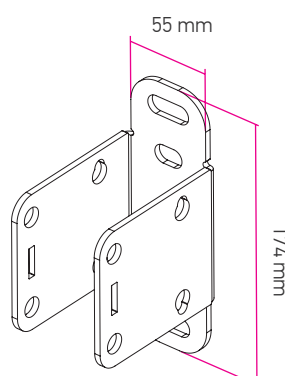
| Length | 3,75 m | 7,5 m | 11,25 m | 15 m | 18,75 m |
|----------------|--------|-------|---------|-------|---------|
| Rafters (pc) | 2 pcs | 3 pcs | 4 pcs | 5 pcs | 6 pcs |
| Max Projection | 6 m | 6 m | 6 m | 6 m | 6 m |

Pergola **Top Star**

Pergola support options.



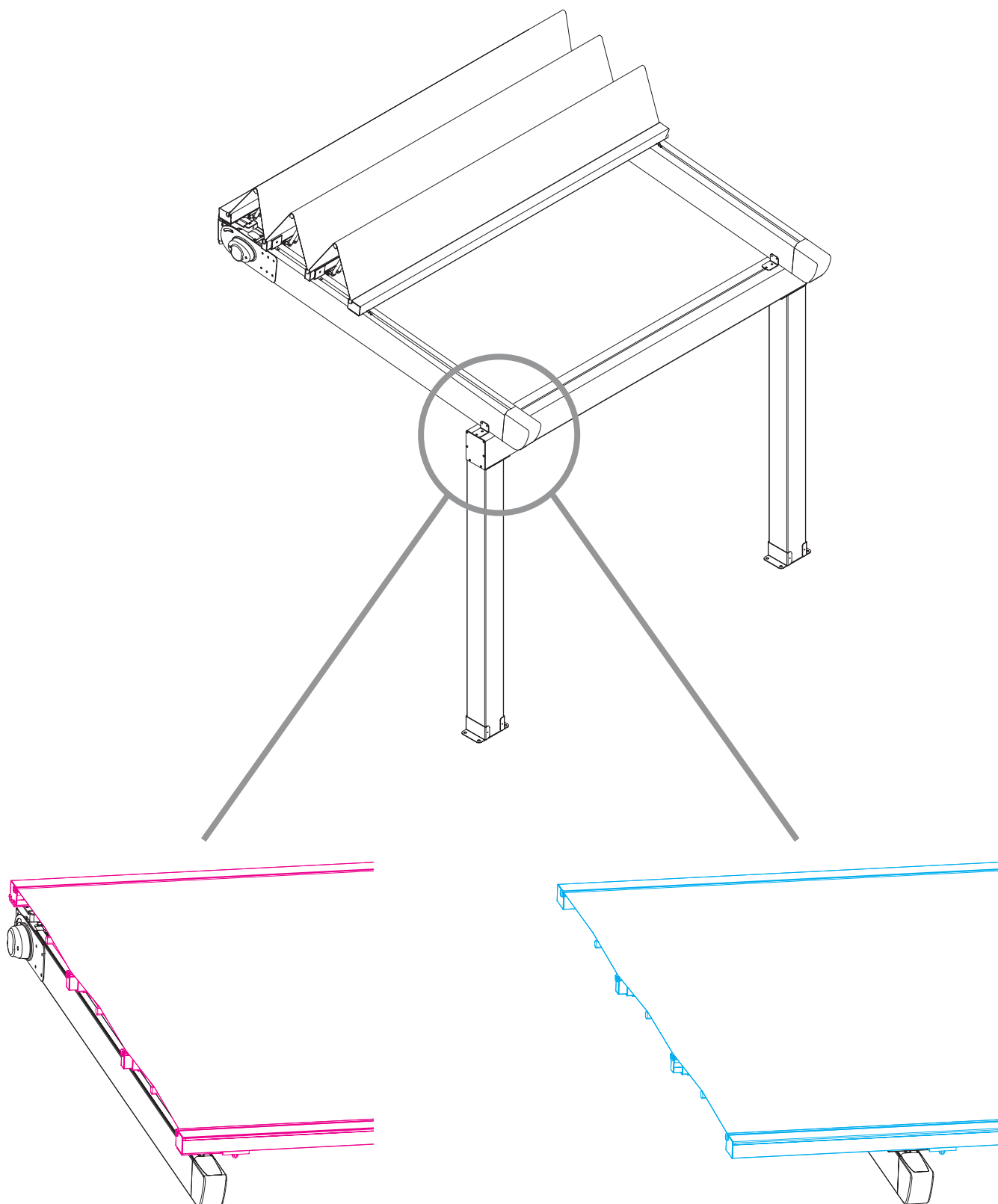
wall base



Pergola **Top Star**

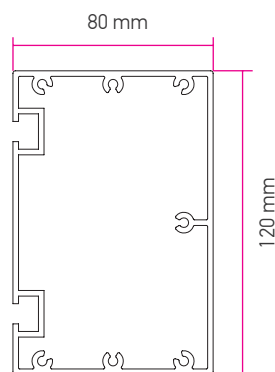
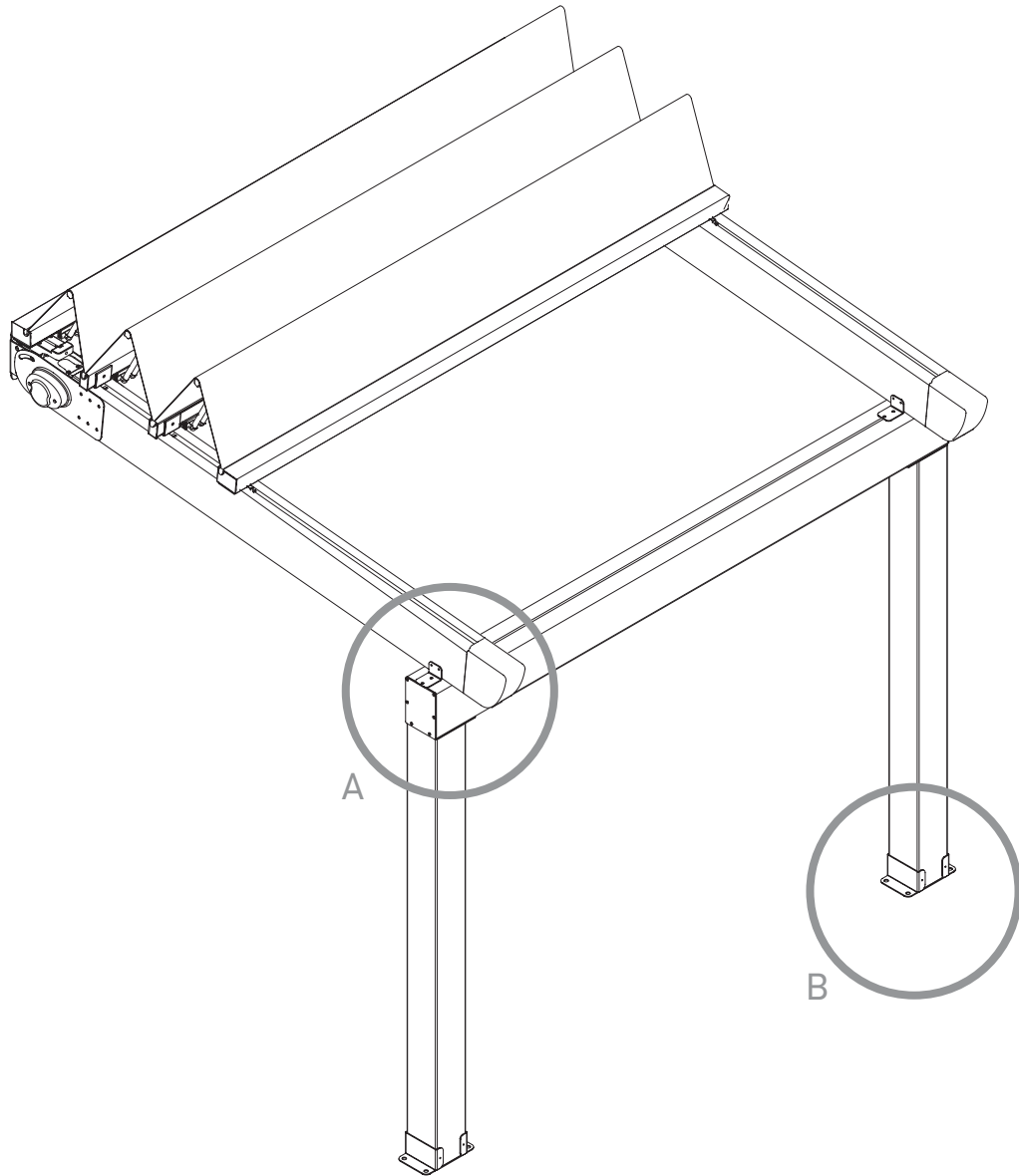
Counterweight overhang choice.

Counterweights can extend a minimum of 4.5 cm from the rafter and a maximum of 80cm.

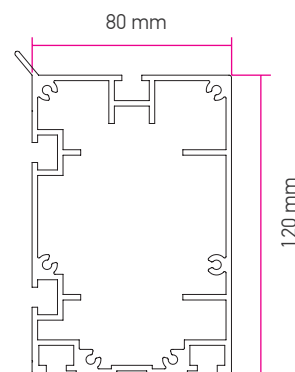


Choices for support of a Top Star pergola with a 120x80 parapet.

Aluminium 120x80 parapet with an extra gutter and 120x80 columns. Maximum column-to-column distance: 4 metres.



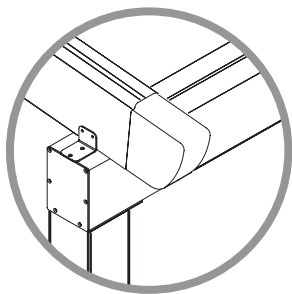
120x80 Column



120x80 Parapet

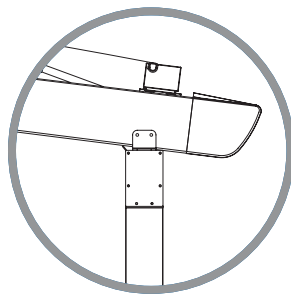
Choices for support of a Top Star pergola with a 120x80 parapet.

A Details of the rafter-parapet connection.



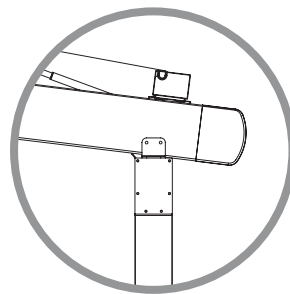
1

External detail of Rafter-to-Parapet connection. The total parapet length is always 2 cm longer than the total pergola length.



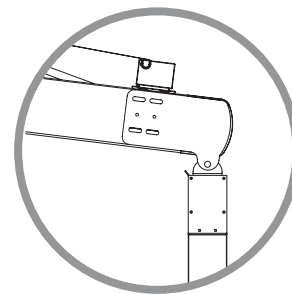
2

Top Star pergola with a protruding rafter and 15 cm Aluminium Cover (Corbel) on a 120x80 parapet.



3

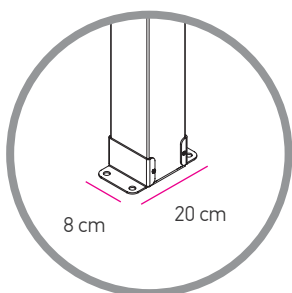
Top Star pergola with a protruding rafter and 10 cm Aluminium Cover (Corbel) on a 120x80 parapet.



4

Top Star pergola with a face rafter on the 120x80 parapet, 10 cm Aluminium Cover (Corbel).

B Details of the parapet column and rainwater extraction.

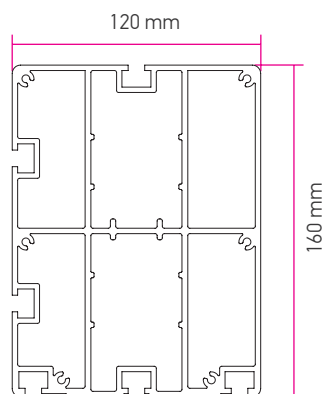
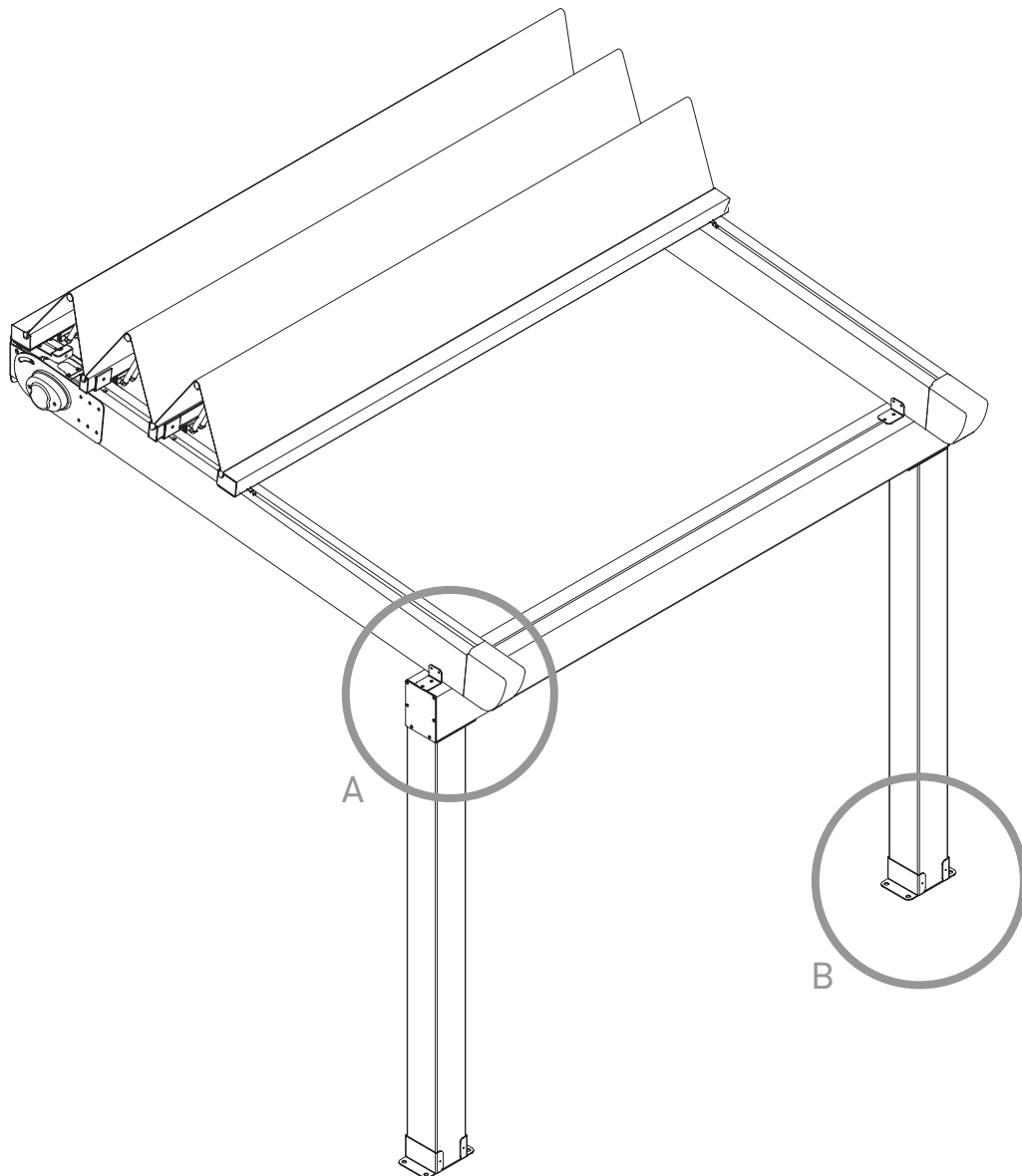


1

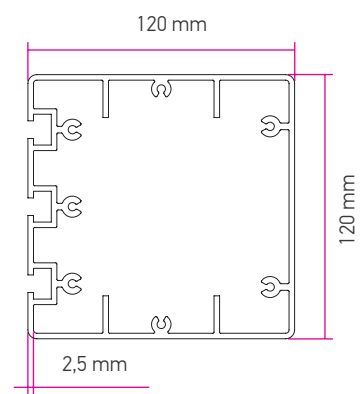
Parapet column without rainwater extraction.

Details of the connection of a pergola with a 160x120 parapet.

Aluminium 160x120 parapet with 120x120 columns. Maximum column-to-column distance: 6 metres.



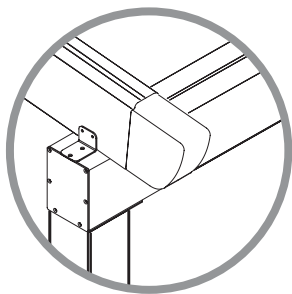
160X120 Parapet



120X120 Column

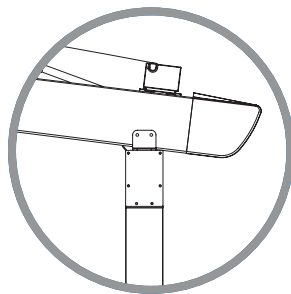
Details of the connection of a pergola with a 160x120 parapet.

A Details of the rafter-parapet connection.



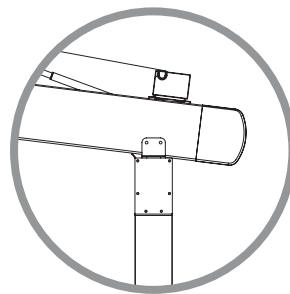
1

External detail of the Rafter -to-Parapet connection.
The total parapet length is always 2 cm longer than the total pergola length.



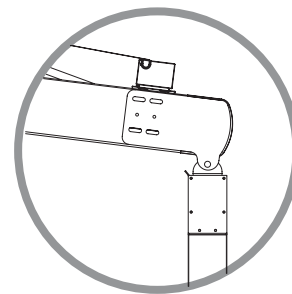
2

Top Star pergola with a protruding rafter and 15 cm Aluminium Cover (Corbel) on a 160x120 parapet.



3

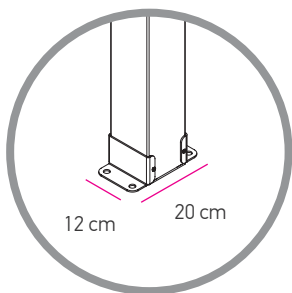
Top Star pergola with a protruding rafter and 10 cm Aluminium Cover (Corbel) on a 160x120 parapet.



4

Top Star pergola with a face rafter on the 160x120 parapet, 10 cm Aluminium Cover (Corbel).

B Details of the parapet column and rainwater extraction.

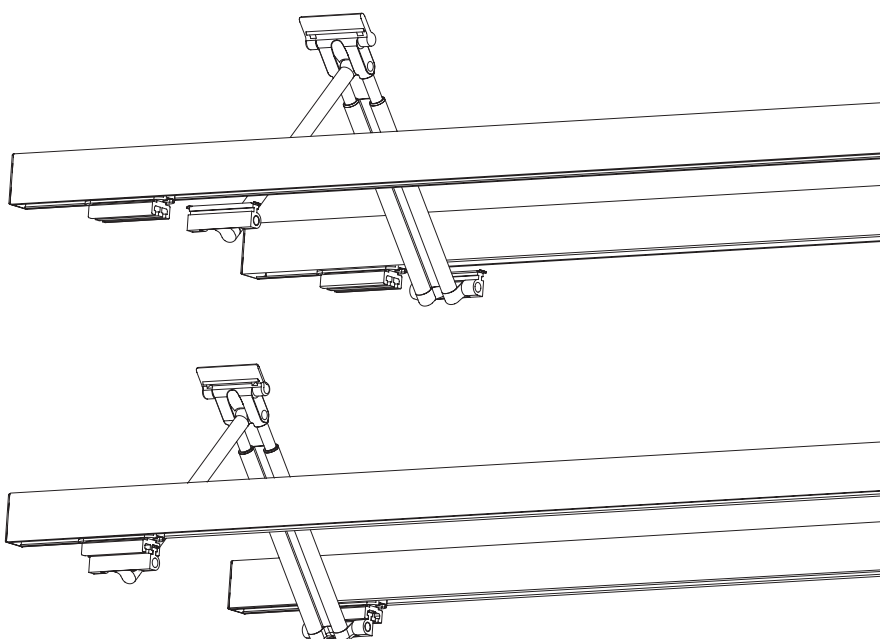
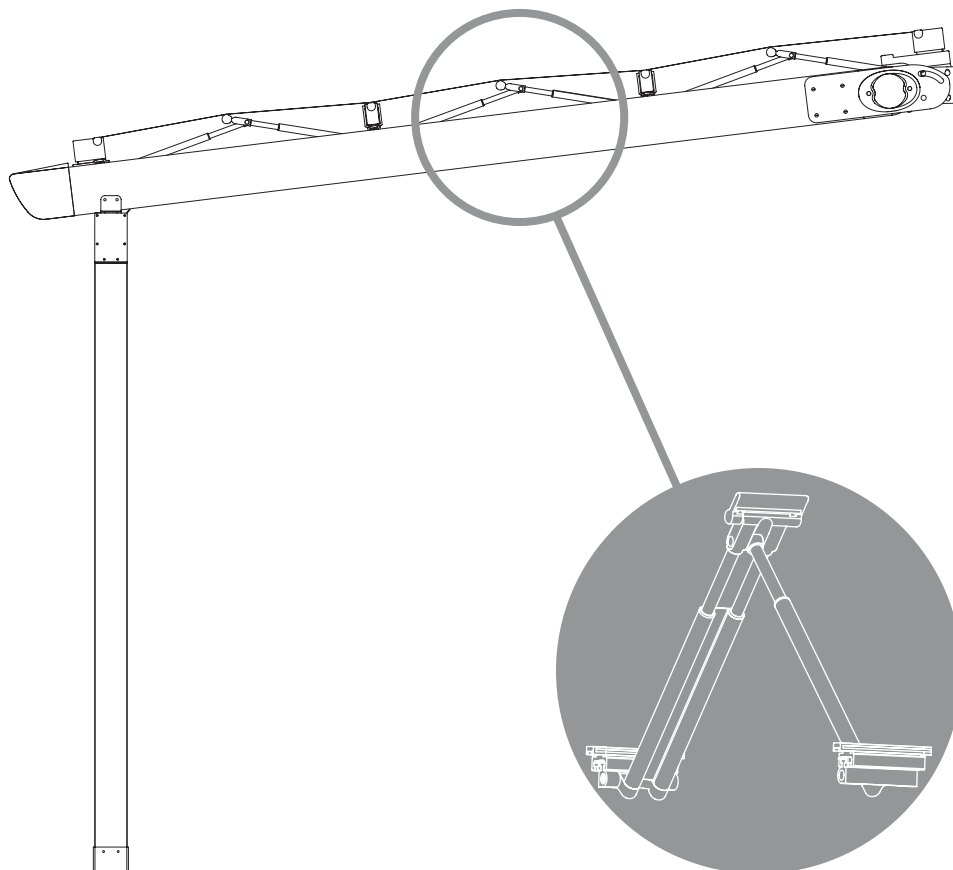


1

Parapet column without rainwater extraction.

Pergola **Top Star**

Details of Lifting system.

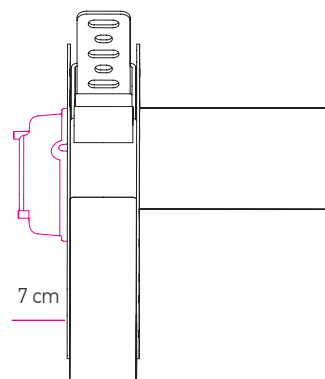
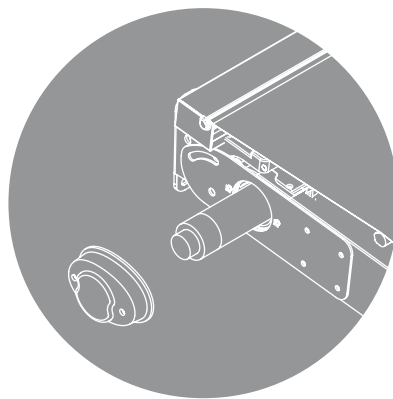
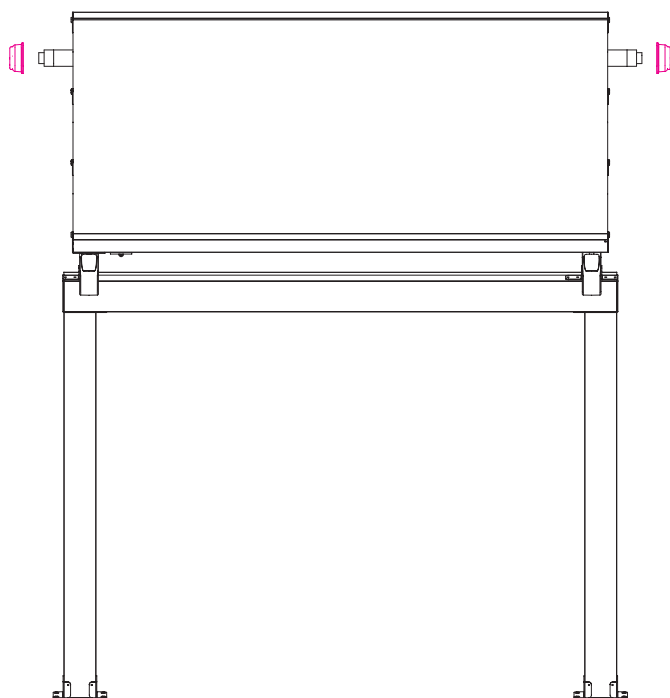
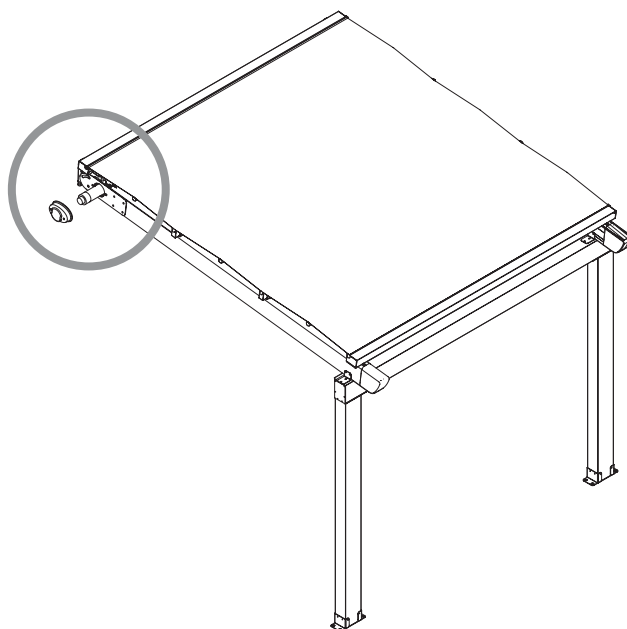
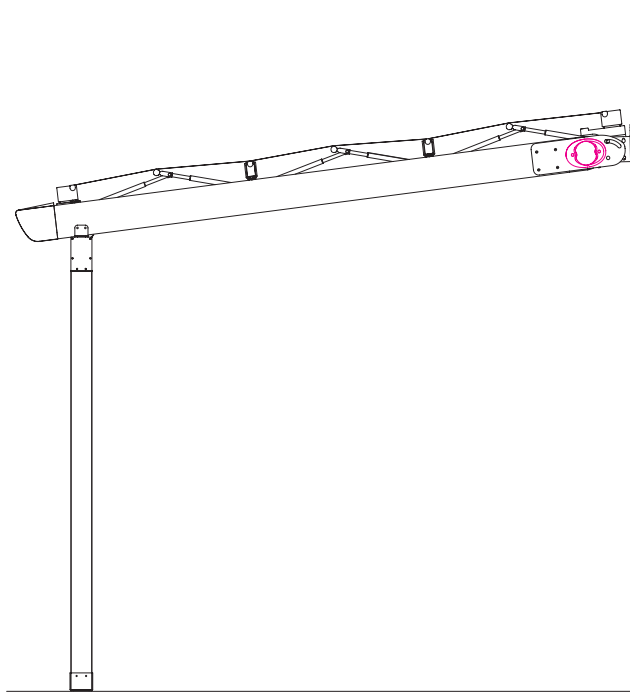


Pergola **Top Star**

Motion transmission motor.

Motion is transmitted in the Top Star pergola by a tubular motor.

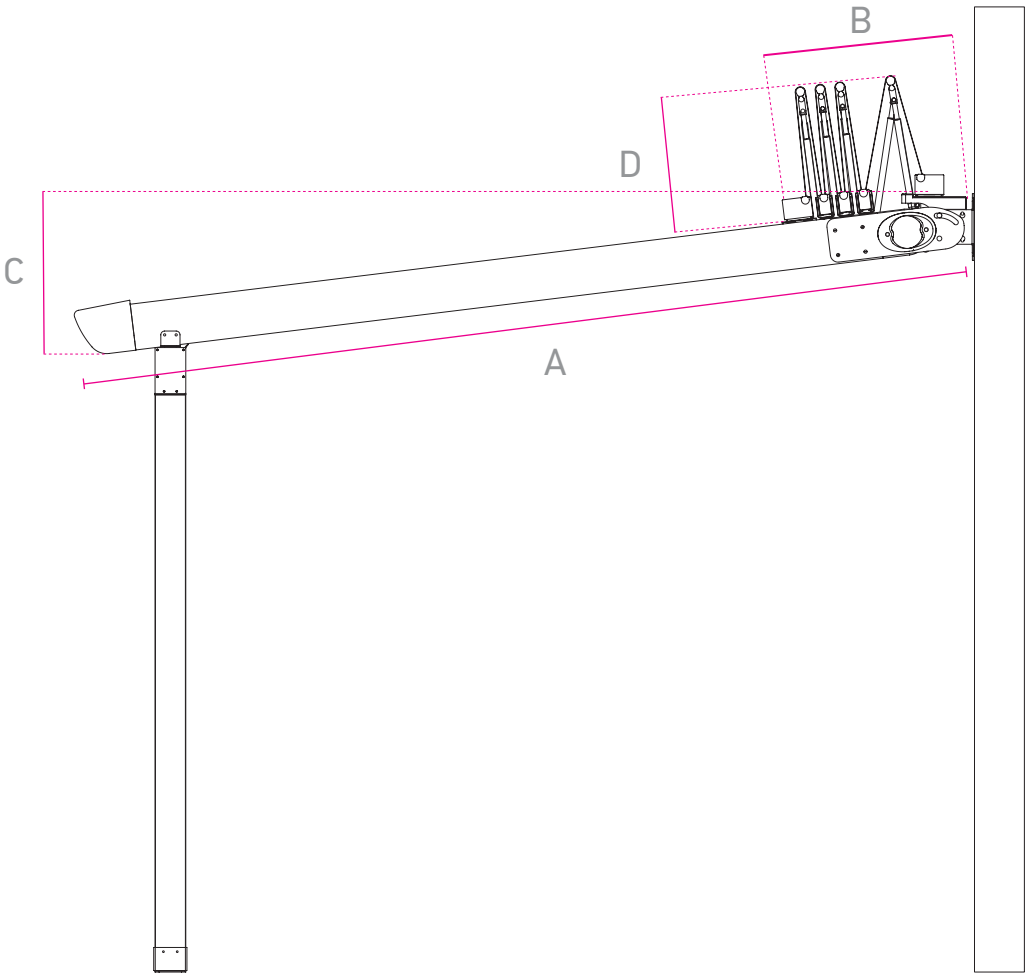
For pergolas with large areas and special requirements, two tubular motors can be installed.



Motor cover detail

Pergola **Top Star**

General information on pergola installation.




| A | B | C | D |
|------------|--------------------------------------|----------|-------|
| Projection | Distance of Retracted Counterweights | Gradient | Depth |
| 250 | 43,5 | 32,5 | 48,45 |
| 300 | 43,5 | 39 | 54,70 |
| 350 | 47,5 | 45,5 | 52,20 |
| 400 | 51,5 | 52 | 50,53 |
| 450 | 51,5 | 58,5 | 54,70 |
| 500 | 55,5 | 65 | 52,91 |
| 550 | 59,5 | 71,5 | 51,58 |
| 600 | 59,5 | 78 | 54,70 |
| 650 | 63,5 | 84 | 52 |

Measurements are in centimeters.



Δήλωση Επίδοσης | Declaration of Performance

PEP/CPR/13561/13

| | | | | |
|---|--|---|------------------|--|
| 1 | Προϊόν / Product type | ΤΕΝΤΑ ΠΕΡΓΚΟΛΑ Τύπου Top Star / CONSERVATORY AWNING Type Top Star | | |
| 2 | Κωδικός αναγνώρισης / Product type reference | PET | | |
| 3 | Προοριζόμενη χρήση / Intended use | Σύστημα σκίασης εξωτερικής χρήσης / Shading system for external use | | |
| 4 | Κατασκευαστής, διεύθυνση επικοινωνίας / Manufacturer, address | METAFORM Α.Ε 12ο χλμ. Θεσσαλονίκης - Λαγκαδά, 572 00, Θεσσαλονίκη / METAFORM S.A. 12th Km Thessaloniki - Lagadas, 572 00, Thessaloniki | | |
| 5 | Εξουσιοδοτημένος αντιπρόσωπος, διεύθυνση επικοινωνίας / Authorised representative, address | ΔΕΝ ΕΦΑΡΜΟΖΕΤΑΙ / N.A | | |
| 6 | Εναρμονισμένο Πρότυπο / Harmonized standard Ref | EN 13561:2004 + A1:2008 "Εξωτερικές περσίδες – Απαιτήσεις επιδόσεων και ασφάλειας" / EN 13561:2004 + A1:2008 "External Blinds – Performance requirements including safety" | | |
| 7 | Σύστημα αξιολόγησης της απόδοσης / System of assessment and verification of constancy of performance | 4 | | |
| 8 | Ουσιώδη χαρακτηριστικά / Essential Characteristic Αντοχή σε ανεμοπίεση / Wind resistance | Δηλωθείσα απόδοση / Declared Performance | | Τεχνική προδιαγραφή / Technical specification EN 1932:2001 "Αντοχή σε ανεμοπίεση - μέθοδοι δοκιμών" / EN 1932:2001 "Resistance to wild loads - Method of testing" |
| | | Μοντέλο / Model | Κλάση / Class | |
| | | PET1 | 3 | |
| | | PET2 | 3 | |
| | | PET3 | 3 | |
| | | PET4 | 3 | |
| PET5 | 3 | | | |
| 9 | Κοινοποιημένος Φορέας / Notified Body | Εξέδωσε το Πιστοποιητικό Συμμόρφωσης / Issued the Certificate of Conformity | | |
| | ΔΕΝ ΕΦΑΡΜΟΖΕΤΑΙ / N.A. | ΔΕΝ ΕΦΑΡΜΟΖΕΤΑΙ / N.A. | | |
| 10 | Η απόδοση του προϊόντος που ταυτοποιείται στα σημεία 1 και 2 ανταποκρίνεται προς την απόδοση που δηλώθηκε στο σημείο 8. Η παρούσα δήλωση απόδοσης εκδίδεται με αποκλειστική ευθύνη του κατασκευαστή που ταυτοποιείται στο σημείο 4. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Υπογραφή για λογαριασμό και εξ ονόματος του κατασκευαστή από / Signed for and on behalf of the manufacturer by: Φραγκόπουλος Στυλιανός - Υπεύθυνος Ποιότητας Fragopoulos Stelios – Quality Manager | | | |
| Τόπος και ημερομηνία έκδοσης / Place and date of issue | | Υπογραφή / Signature | | |
| Θεσσαλονίκη / Thessaloniki ____/____/20____ | |  | | |



