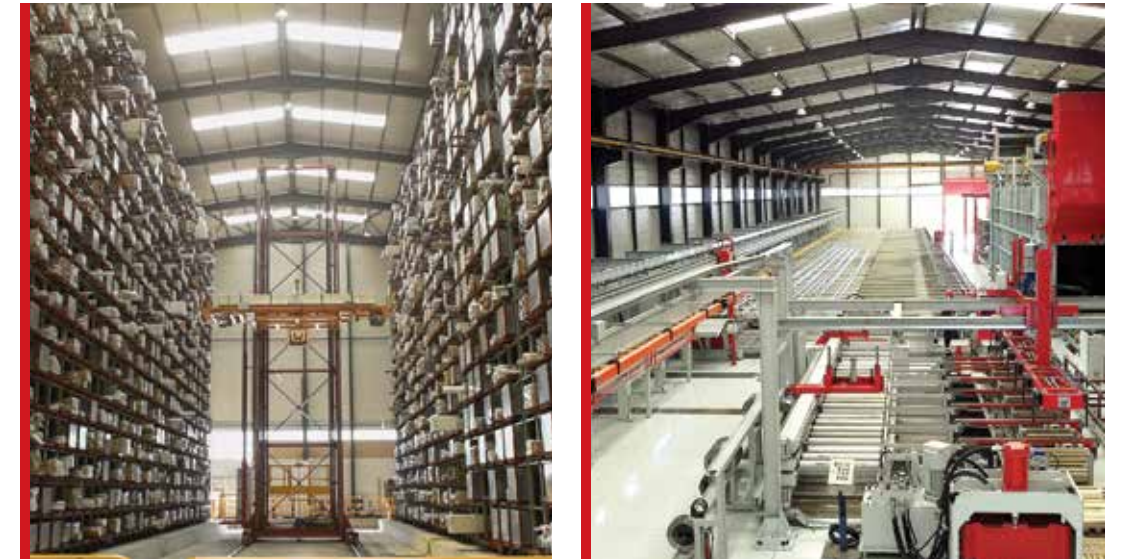




 **Freedom**  
Bioclimatic  
Pergola

[www.aluminco.com](http://www.aluminco.com)



**Aluminco is among the top suppliers of innovative architectural aluminium systems**

ALUMINCO S.A. was established in 1982, to meet the increasing demand for innovative products and bring life to the aluminium systems. Its vision was to become a premium, worldwide Aluminium supplier of systems that meet evolution.

By constantly investing in new technologies and placing great emphasis on research and development, ALUMINCO has developed and consolidated hundreds of aluminium products, many of which are unique in their kind, with many innovations and patents.

In ALUMINCO we implement Quality, Environmental, Occupational Health & Safety and Energy Management Systems certified according to international standards ISO 9001, ISO 14001, ISO 45001 and ISO 50001 respectively, as well as Factory Production Control System certified according to EN 15088, EN 1090 and Qualicoat Seaside Class. All product series are approved by internationally recognized certification institutes for their outstanding characteristics and performance.

**Στη κορυφή της βιομηχανίας αλουμινίου, προσφέροντας καινοτόμες λύσεις αρχιτεκτονικών συστημάτων αλουμινίου**

Η ALUMINCO Α.Ε. ξεκίνησε το 1982 πρωτοπόρος με όραμα και ισχυρή επιχειρηματική κουλτούρα.

Με συνεχείς επενδύσεις σε νέες τεχνολογίες και δίνοντας μεγάλη έμφαση στην έρευνα και ανάπτυξη η ALUMINCO έχει αναπτύξει και εδραιώσει εκατοντάδες προϊόντα αλουμινίου, πολλά από τα οποία είναι μοναδικά στο είδος τους, με πολλές καινοτομίες και ευρεσιτεχνίες.

Στην ALUMINCO εφαρμόζουμε Συστήματα Διαχείρισης Ποιότητας, Περιβάλλοντος, Υγείας και Ασφάλειας στην Εργασία και Διαχείρισης της Ενέργειας πιστοποιημένα κατά τα διεθνή πρότυπα ISO 9001, ISO 14001, ISO 45001 και ISO 50001 αντίστοιχα, καθώς και Σύστημα Ελέγχου Παραγωγής πιστοποιημένο κατά EN 15088, EN 1090 και Qualicoat Seaside Class, ενώ όλες οι σειρές προϊόντων ελέγχονται από διεθνώς αναγνωρισμένους φορείς και ινστιτούτα πιστοποιήσεων για τα εξαιρετικά χαρακτηριστικά και τις επιδόσεις τους.

WE ARE  
A PART OF  
TOMORROW

# Freedom Bioclimatic Pergola

**ALUMINCO**<sup>®</sup>  
ALUMINIUM BUILDING SYSTEMS





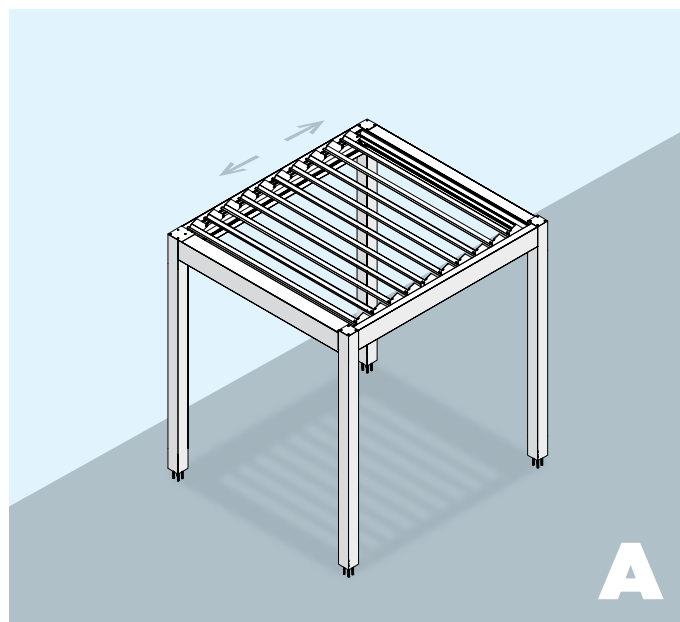
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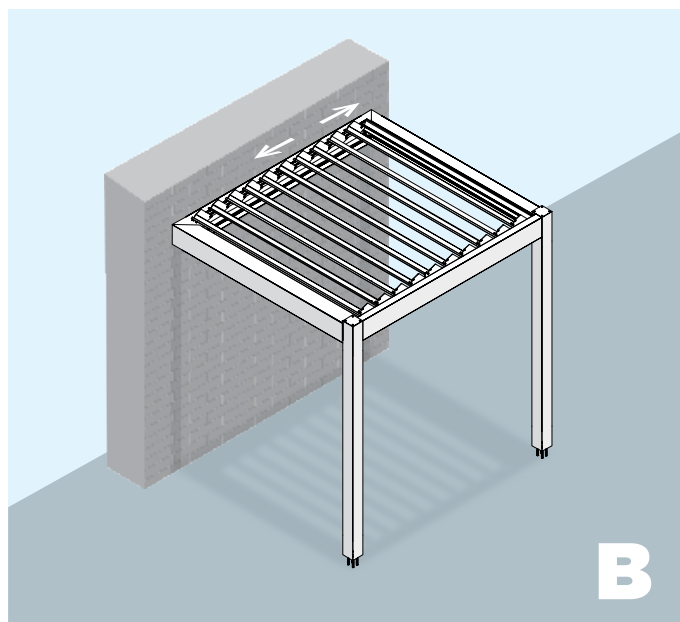
## ΤΥΠΟΛΟΓΙΕΣ / TYPOLOGIES



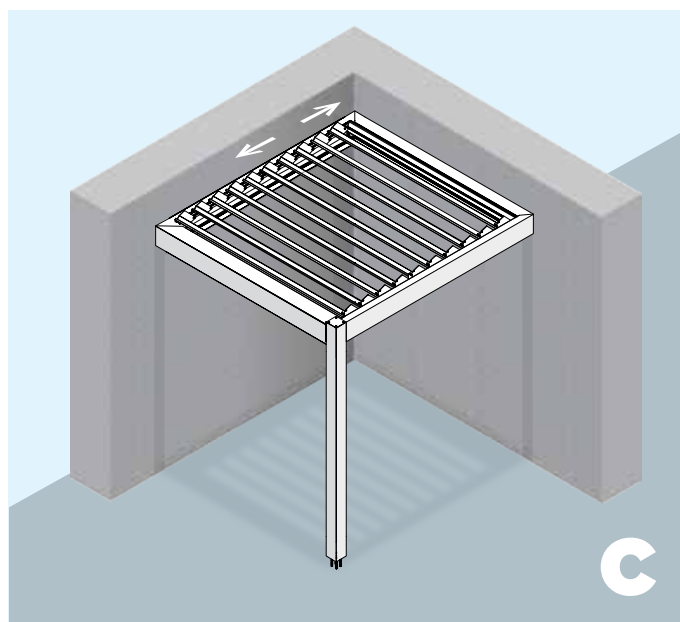
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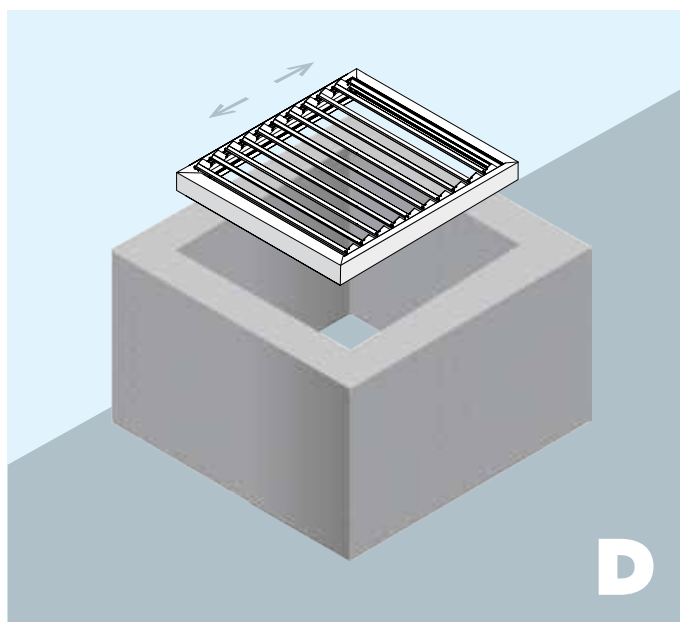
4 ΚΟΛΩΝΕΣ / 4 MULLIONS



2 ΚΟΛΩΝΕΣ / 2 MULLIONS  
ΠΕΡΣΙΔΕΣ ΚΑΘΕΤΑ ΣΤΟΝ ΤΟΙΧΟ /  
LOUVERS PERPENDICULAR TO WALL

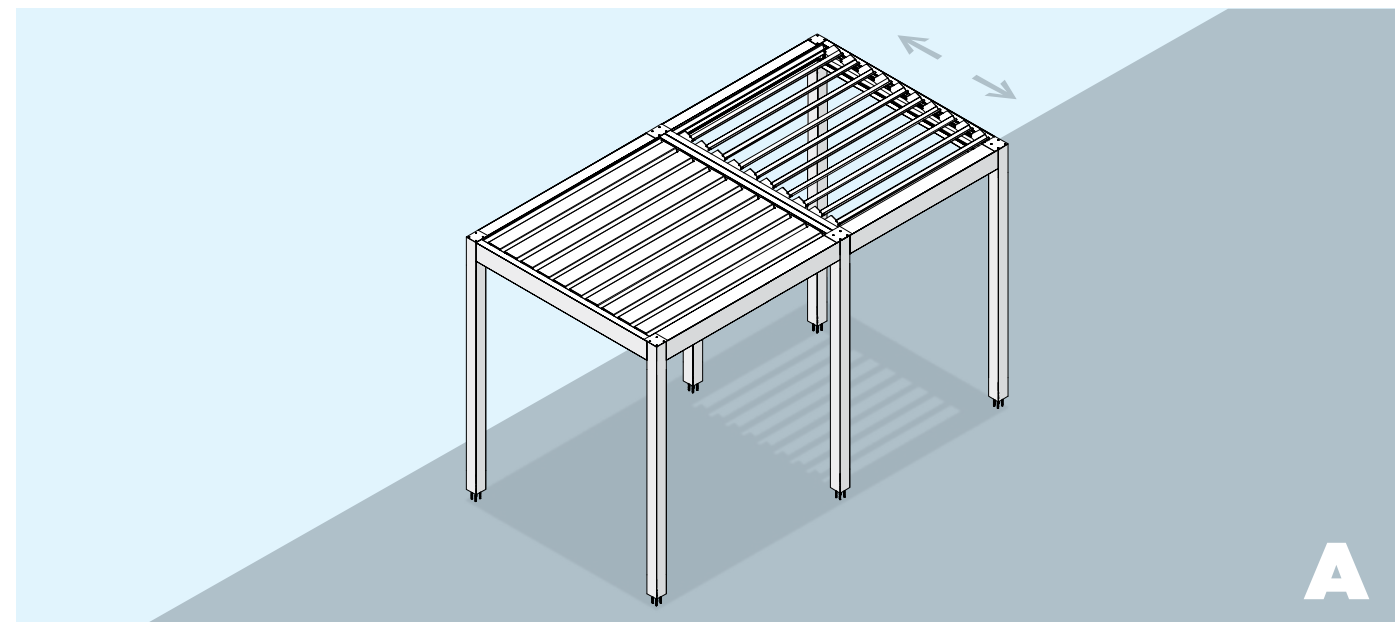


1 ΚΟΛΩΝΑ / 1 MULLION

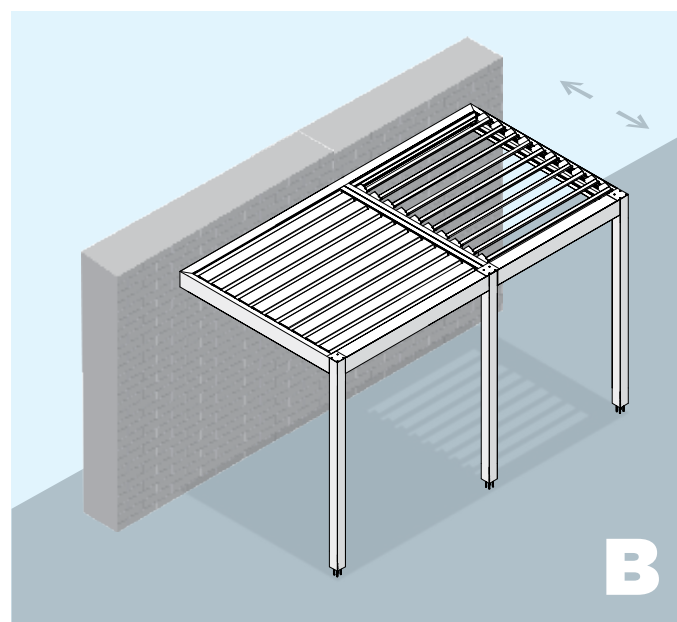


ΧΩΡΙΣ ΚΟΛΩΝΕΣ / WITHOUT MULLIONS

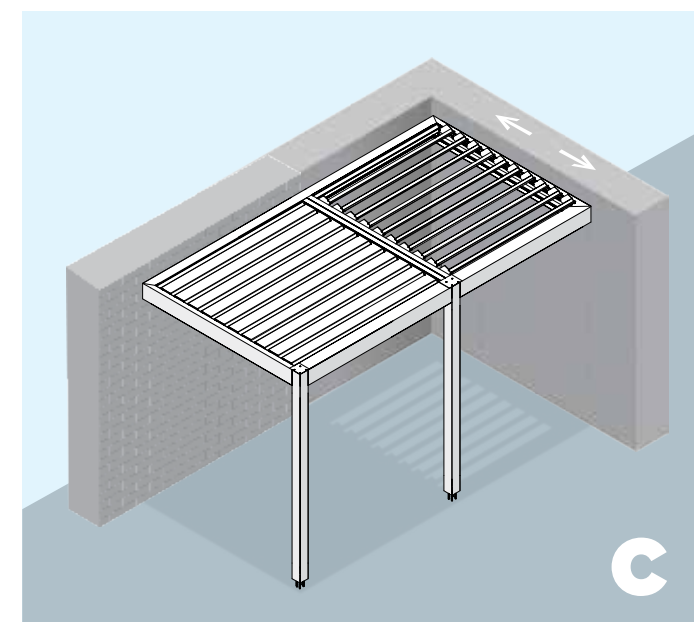
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ΔΙΠΛΗ 6 ΚΟΛΩΝΕΣ / DOUBLEX 6 MULLIONS

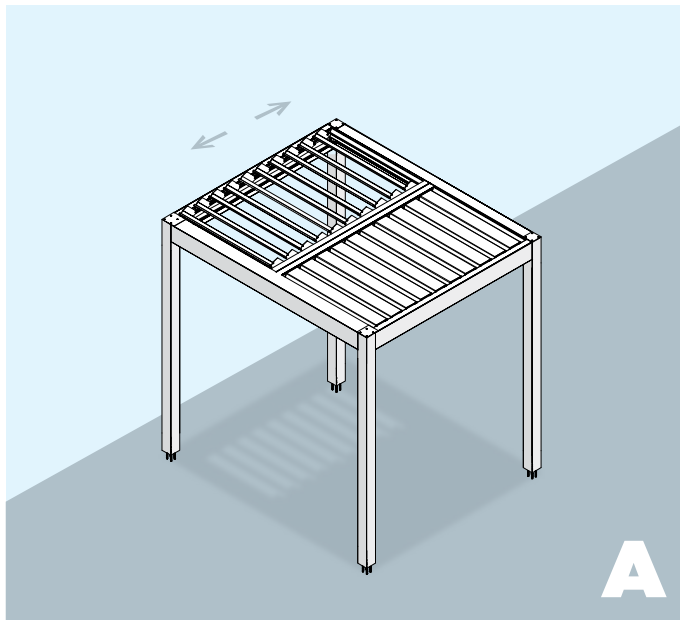


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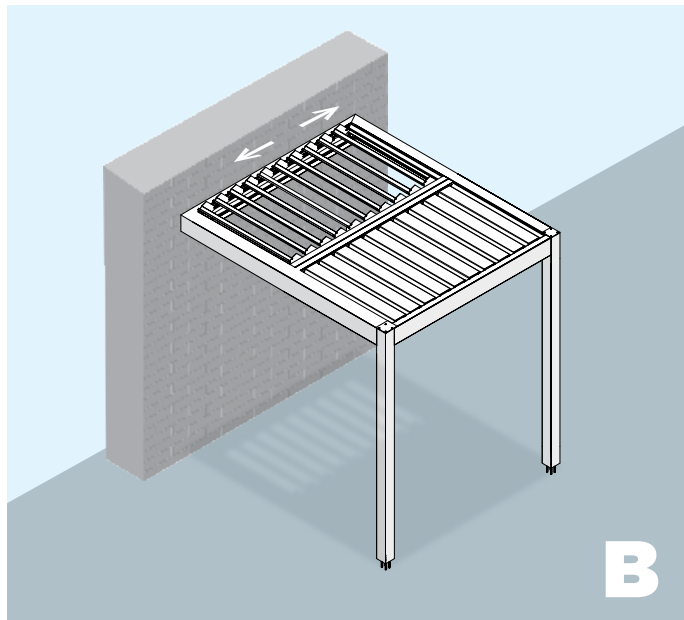


ΔΙΠΛΗ 2 ΚΟΛΩΝΕΣ / DOUBLEX 2 MULLIONS

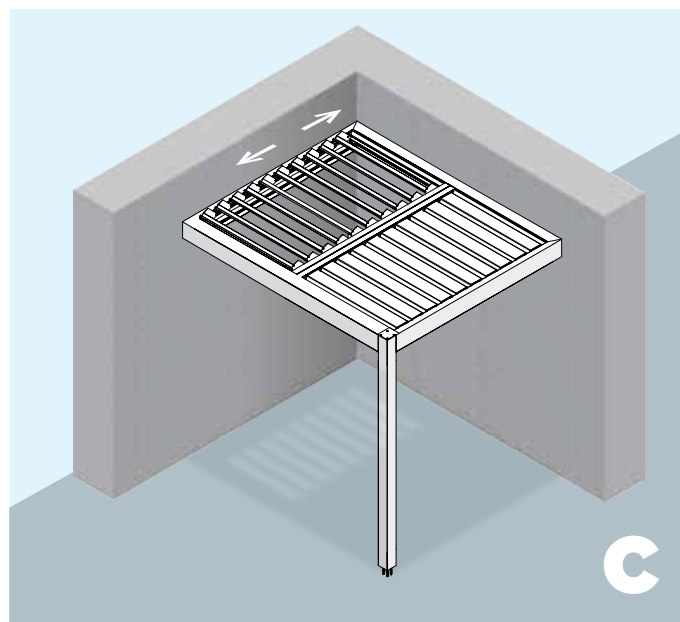
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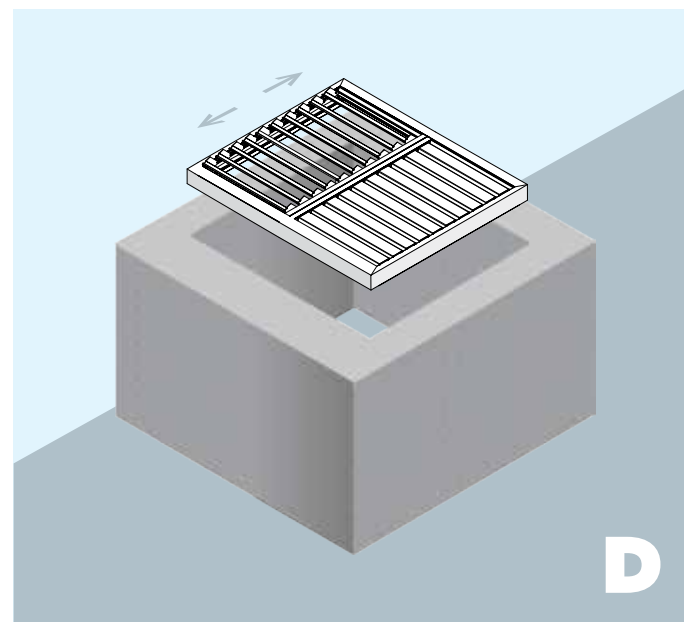
4 ΚΟΛΩΝΕΣ ΜΕ ΤΑΥ / 4 MULLIONS T-PROFILE



2 ΚΟΛΩΝΕΣ ΜΕ ΤΑΥ / 2 MULLIONS T-PROFILE  
ΠΕΡΣΙΔΕΣ ΚΑΘΕΤΑ ΣΤΟΝ ΤΟΙΧΟ /  
LOUVERS PERPENDICULAR TO WALL

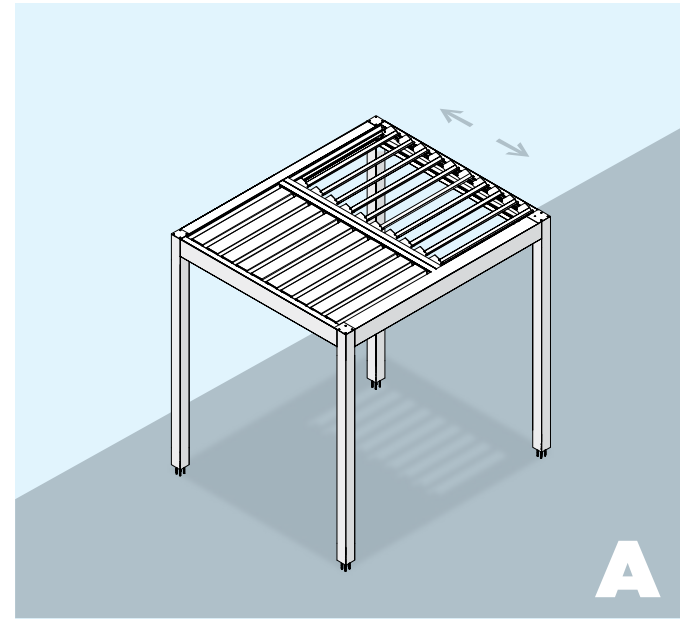


1 ΚΟΛΩΝΑ ΜΕ ΤΑΥ / 1 MULLION T-PROFILE

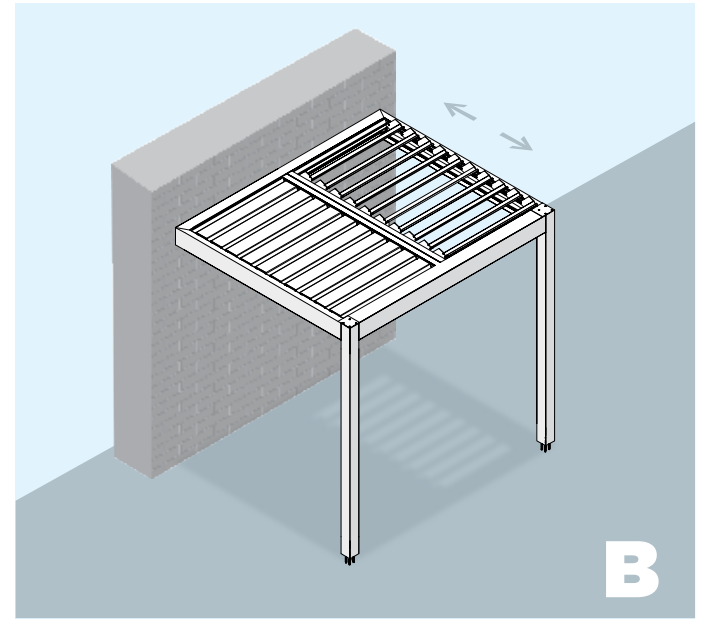


ΧΩΡΙΣ ΚΟΛΩΝΕΣ / WITHOUT MULLIONS

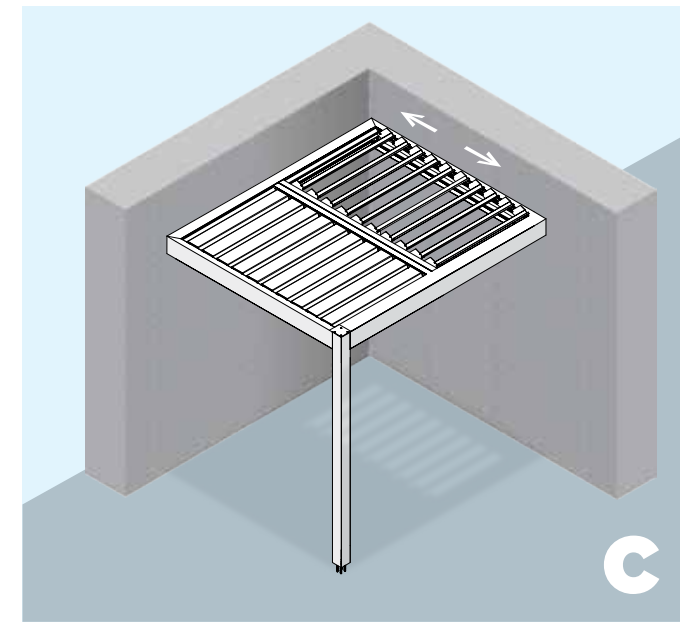
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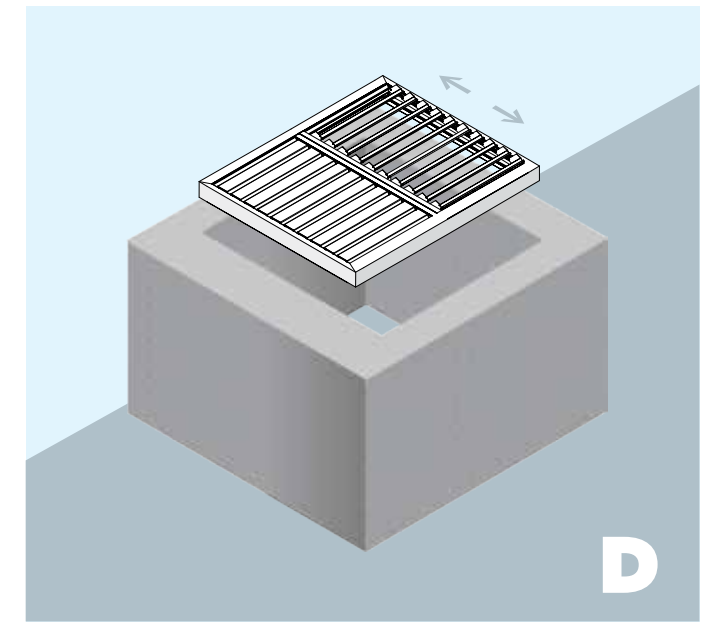
4 ΚΟΛΩΝΕΣ ΜΕ ΤΑΥ / 4 MULLIONS T-PROFILE



2 ΚΟΛΩΝΕΣ ΜΕ ΤΑΥ / 2 MULLIONS T-PROFILE  
ΠΕΡΣΙΔΕΣ ΠΑΡΑΛΛΗΛΑ ΣΤΟΝ ΤΟΙΧΟ /  
LOUVERS PARALLEL TO WALL

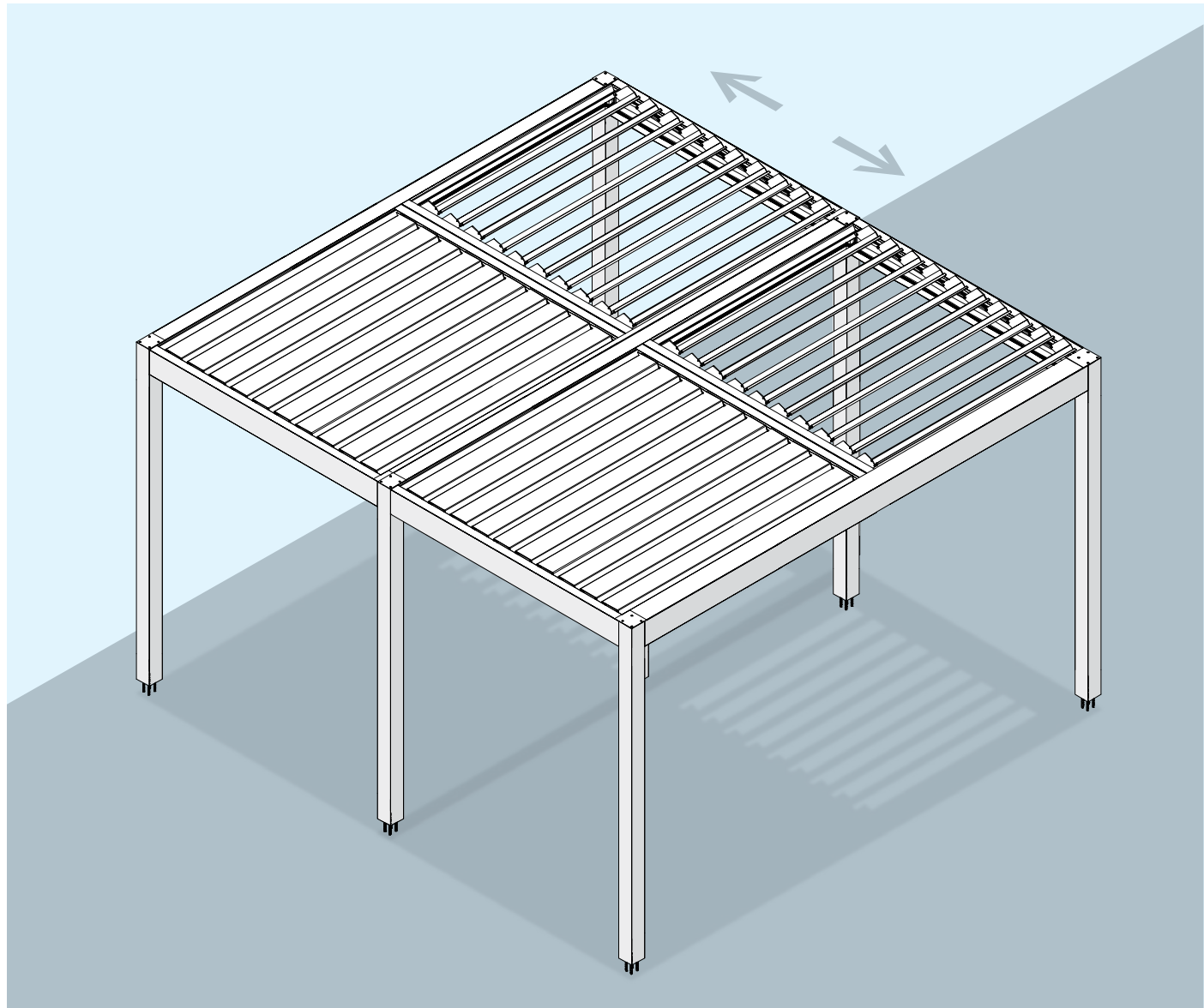


1 ΚΟΛΩΝΑ ΜΕ ΤΑΥ / 1 MULLION T-PROFILE



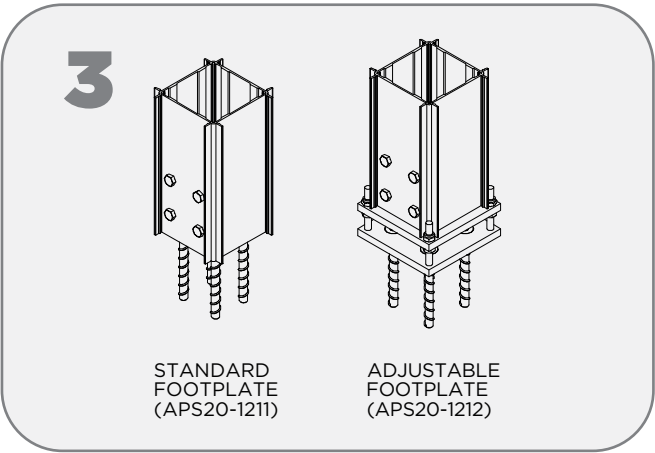
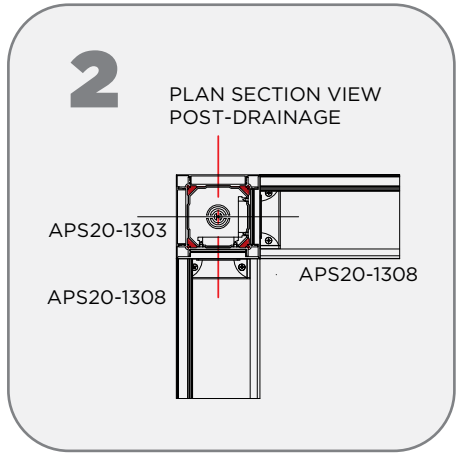
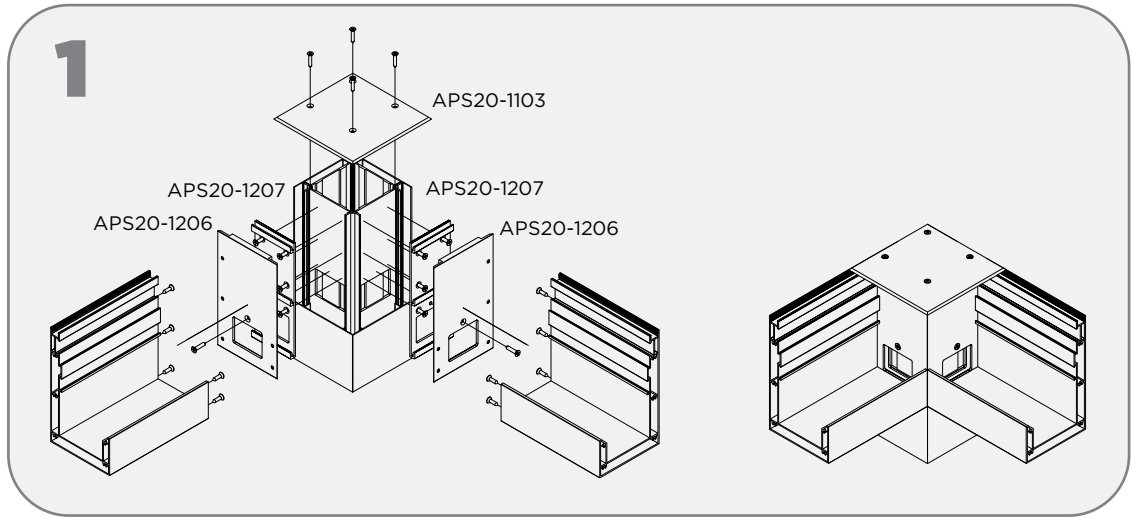
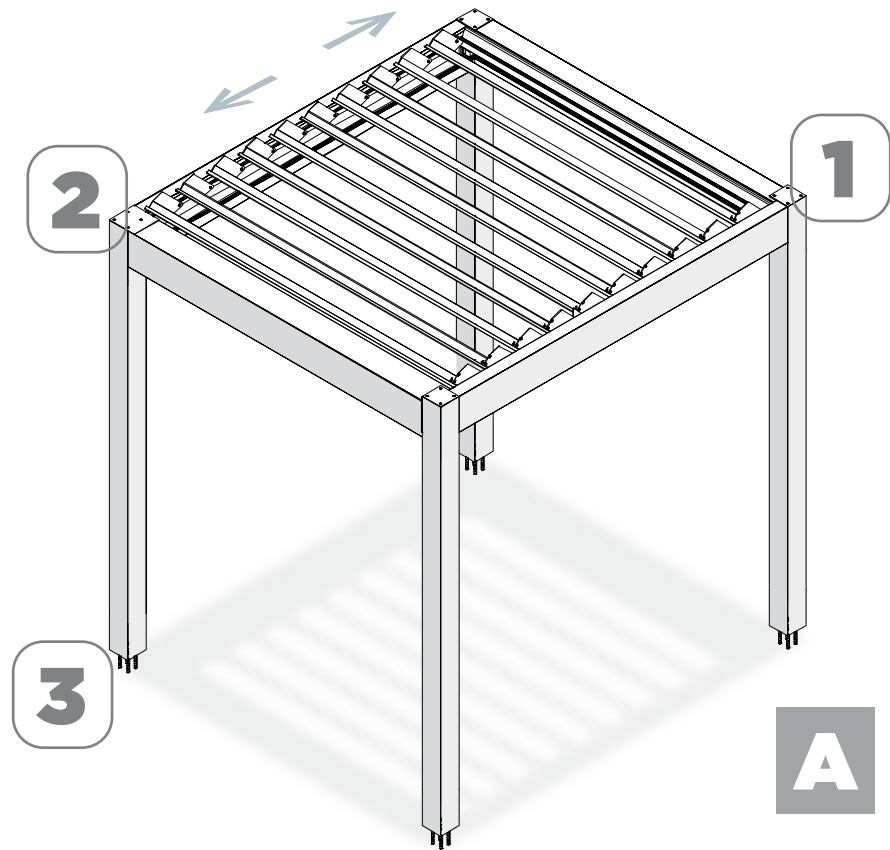
ΧΩΡΙΣ ΚΟΛΩΝΕΣ / WITHOUT MULLIONS

5

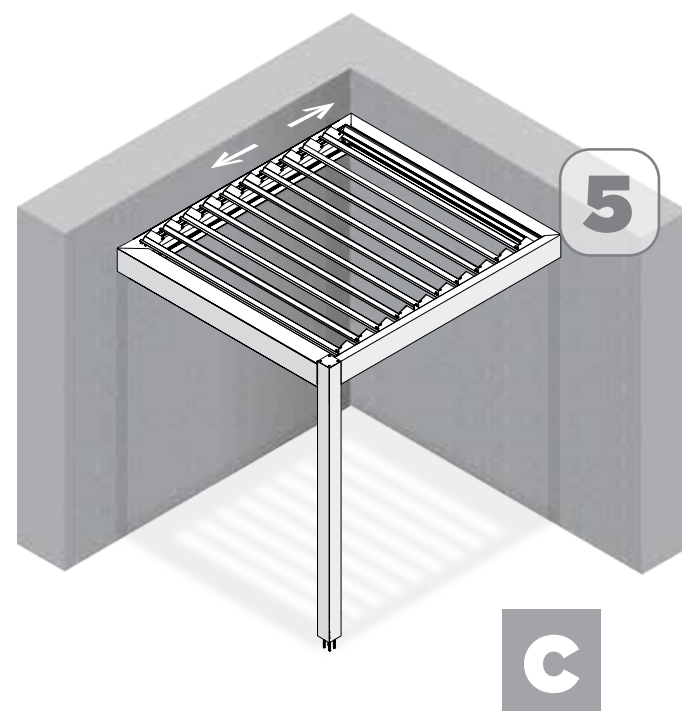
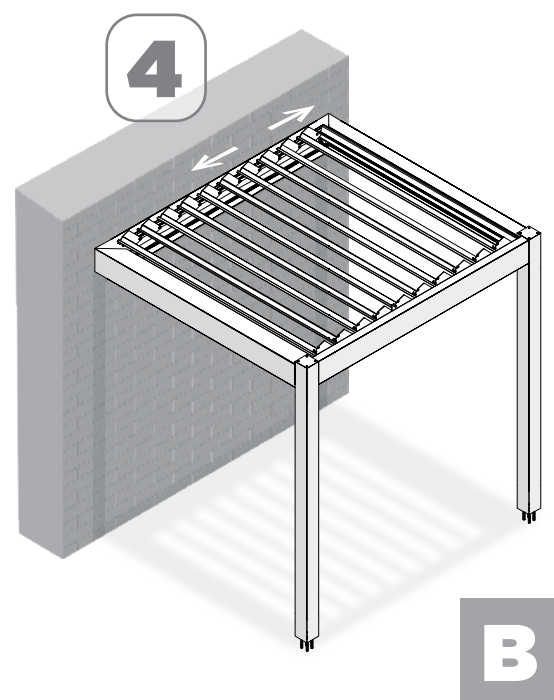


6 ΚΟΛΩΝΕΣ ΜΕ 2 ΤΑΥ ΣΕ ΣΧΗΜΑ ΣΤΑΥΡΟΥ / 6 MULLIONS WITH 2 T-PROFILES IN CROSS POSITION

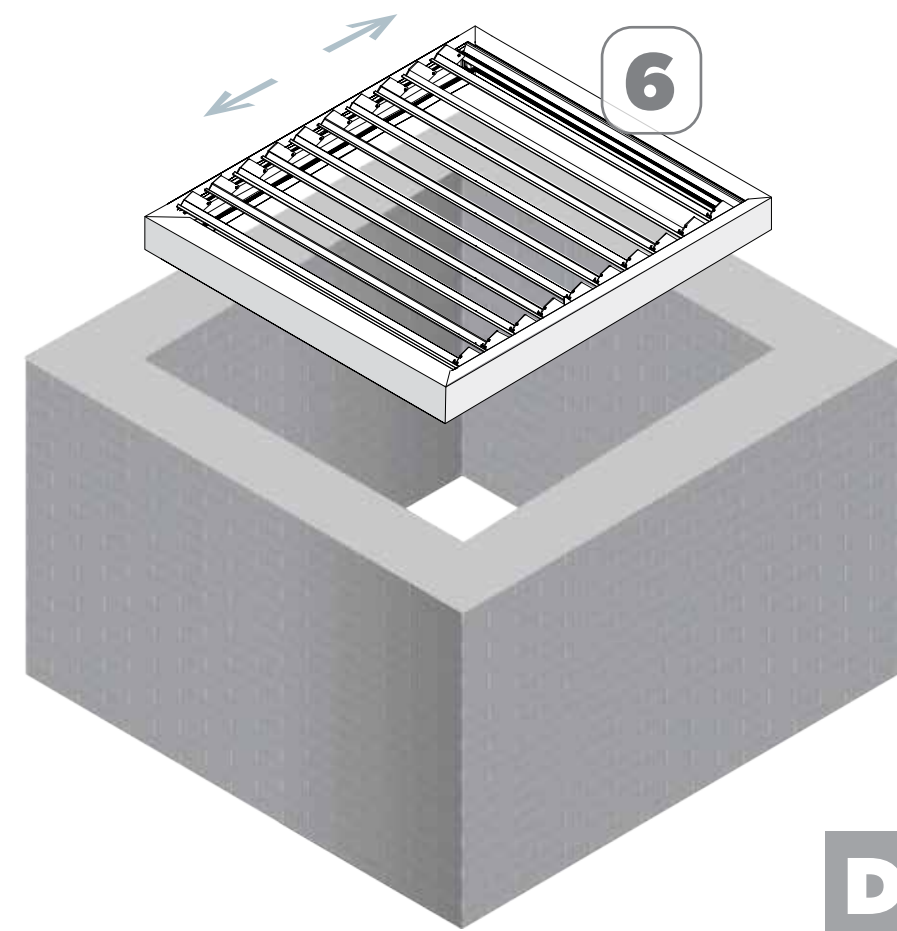
1



1

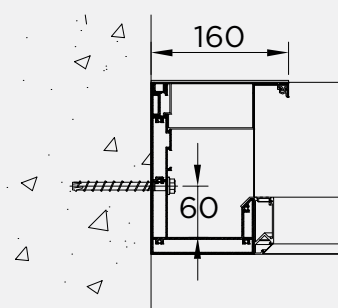


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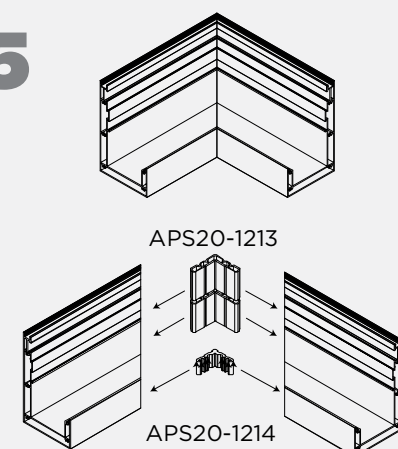
4

WALL MOUNTING



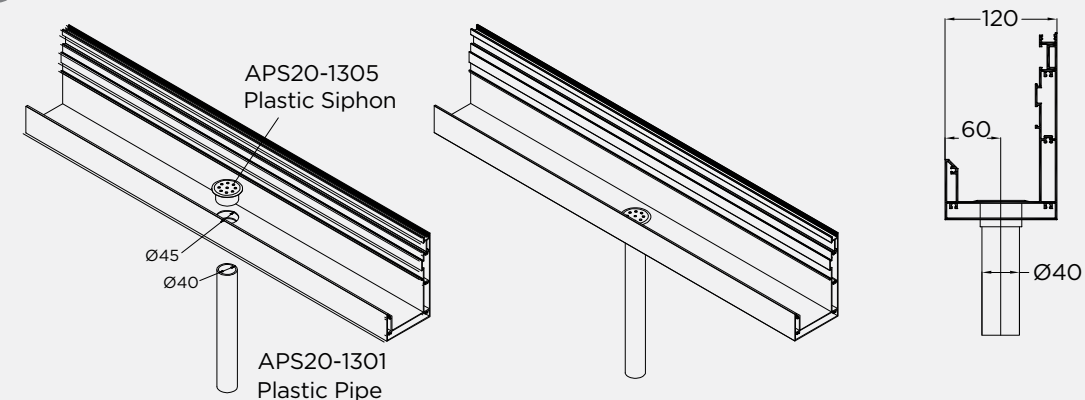
EBM12-110 (Fixed every 200mm)

5

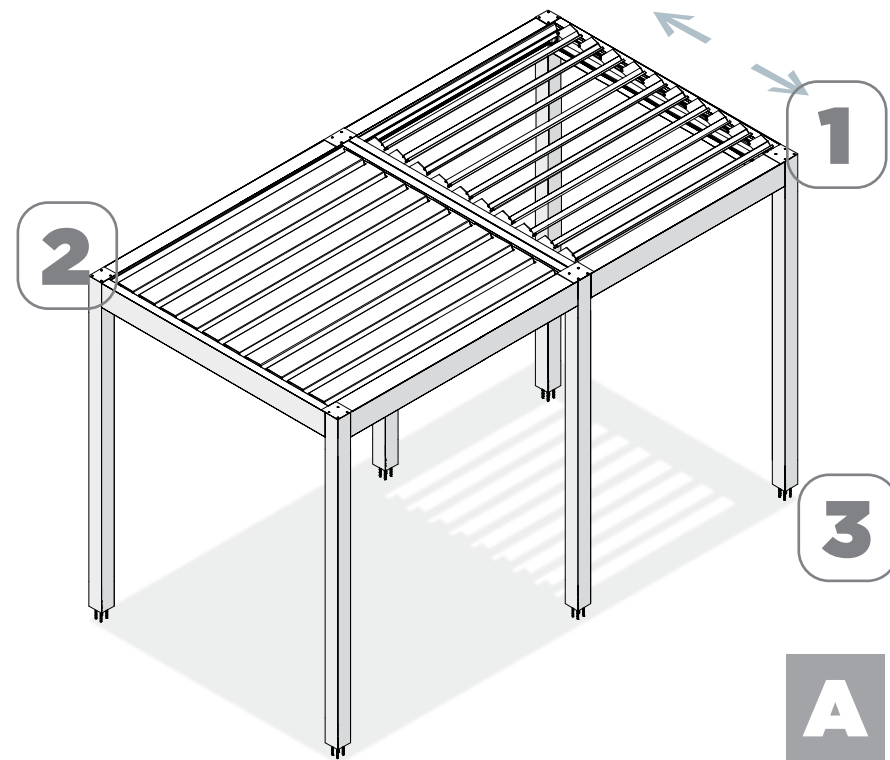


CORNER CRIMPING CONNECTION

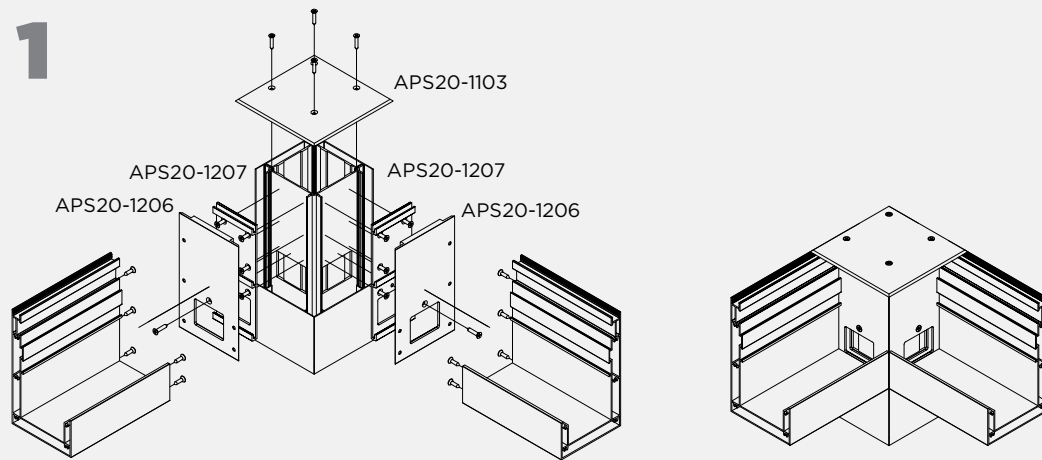
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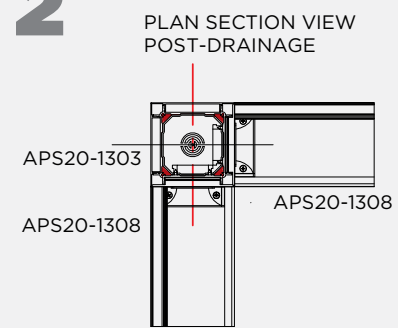
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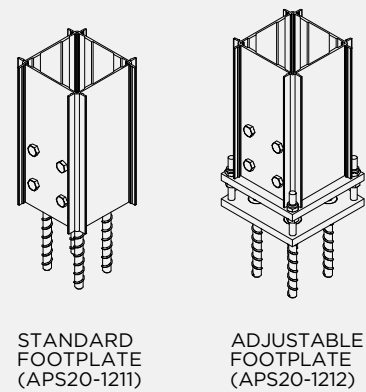
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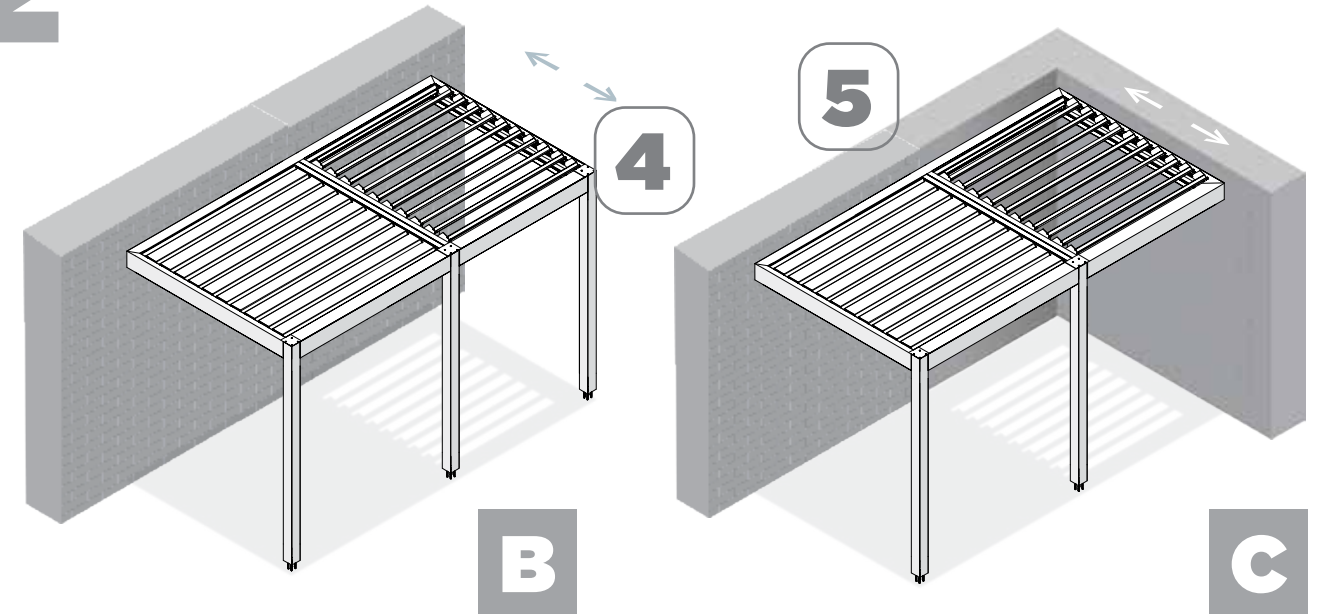
## 2



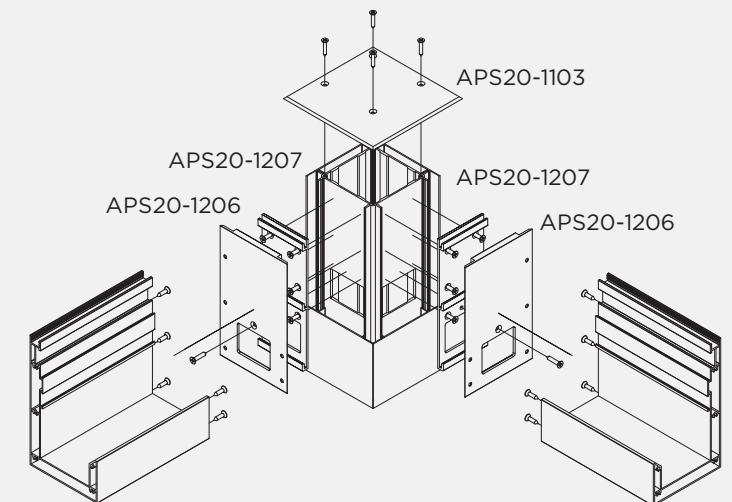
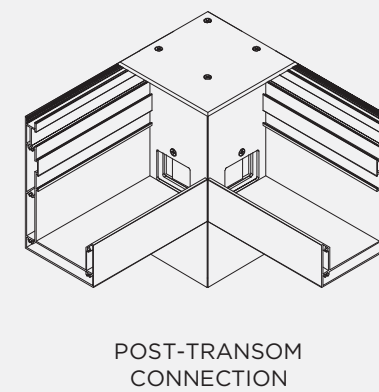
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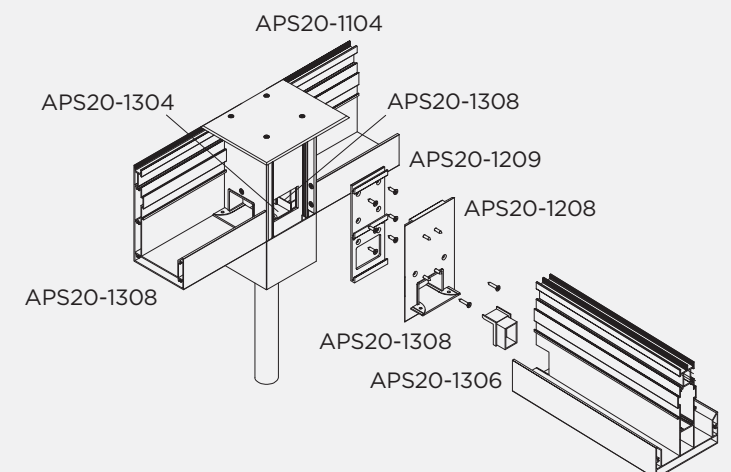
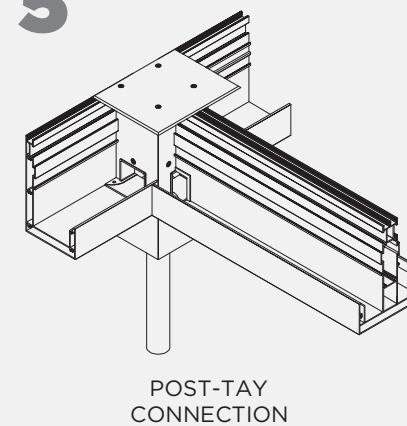
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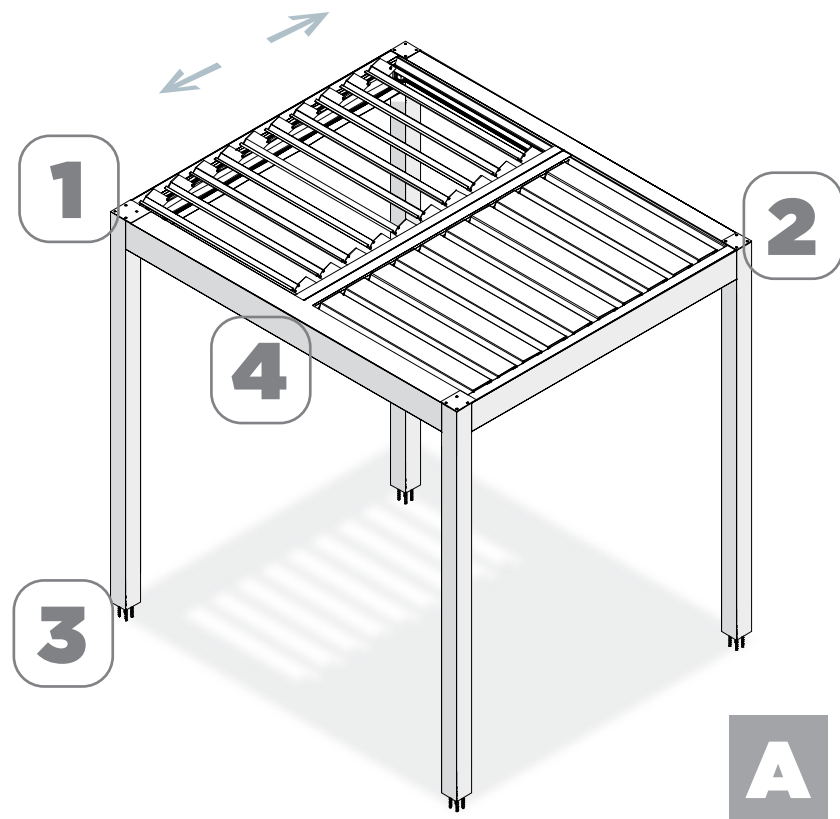
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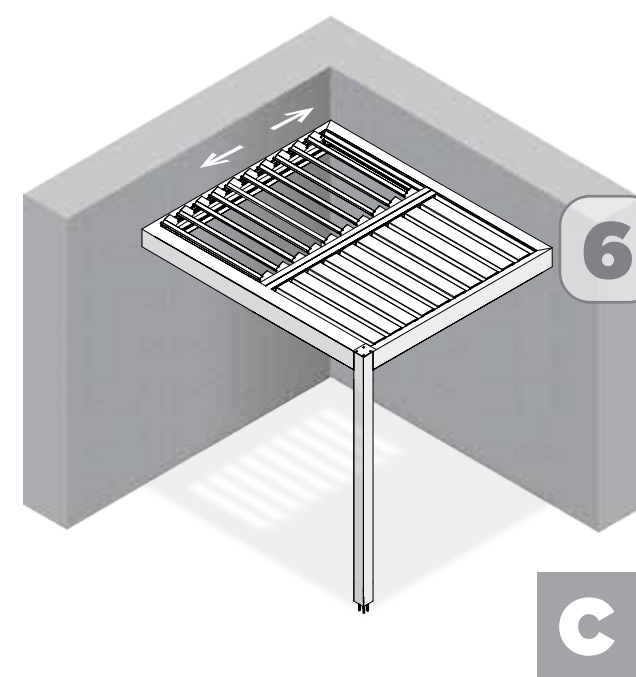
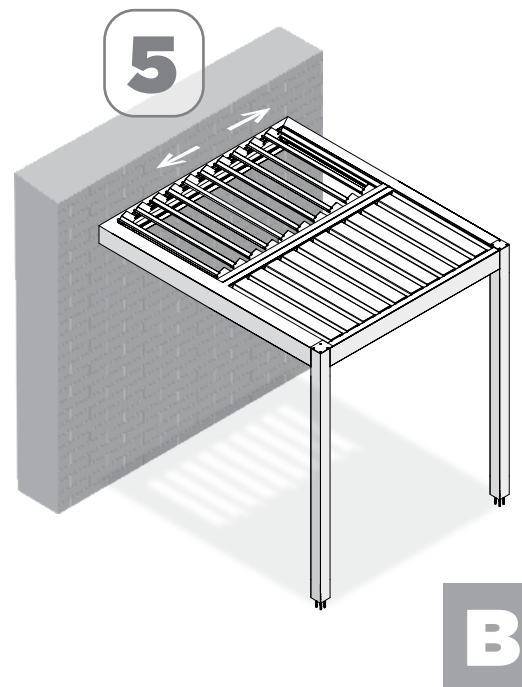
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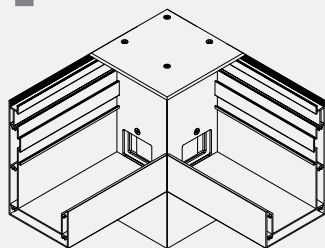
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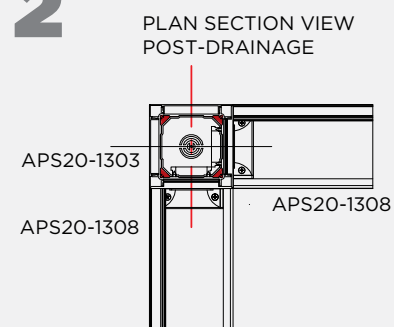
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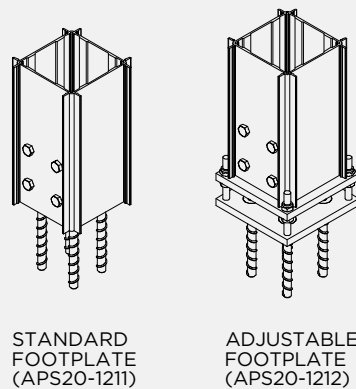
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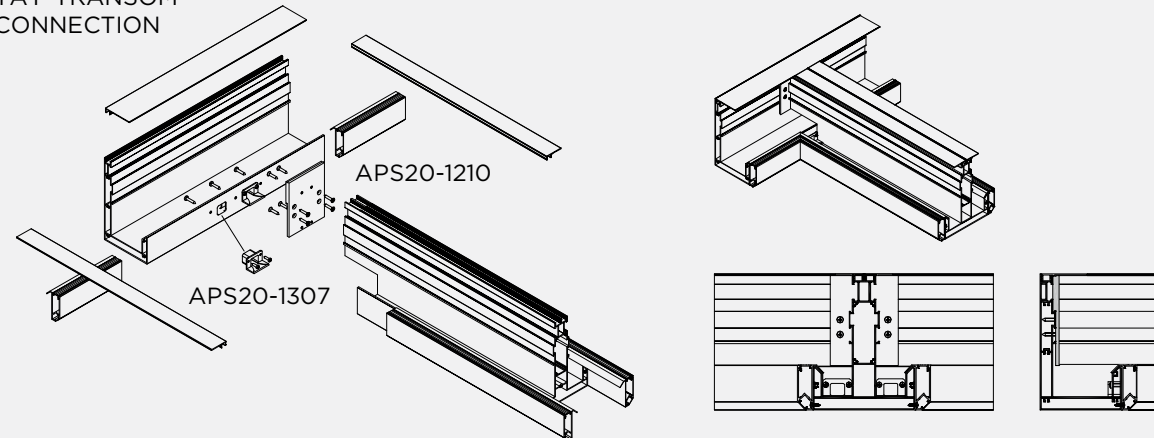


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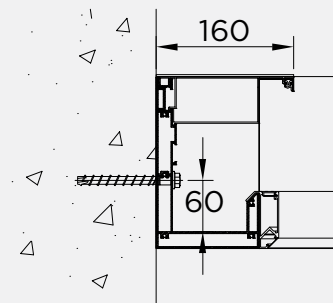
4

TAY-TRANSOM  
CONNECTION



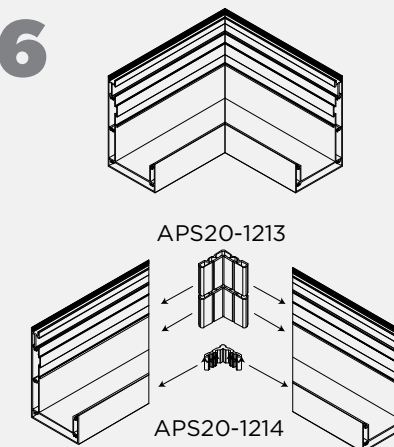
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WALL MOUNTING



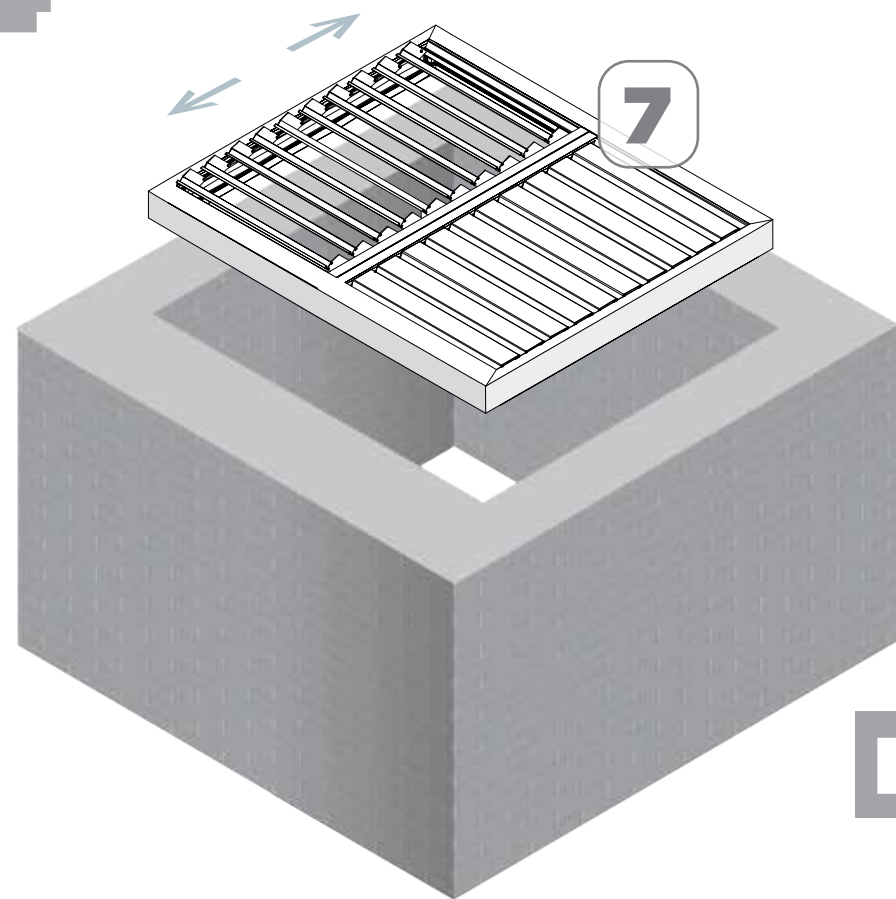
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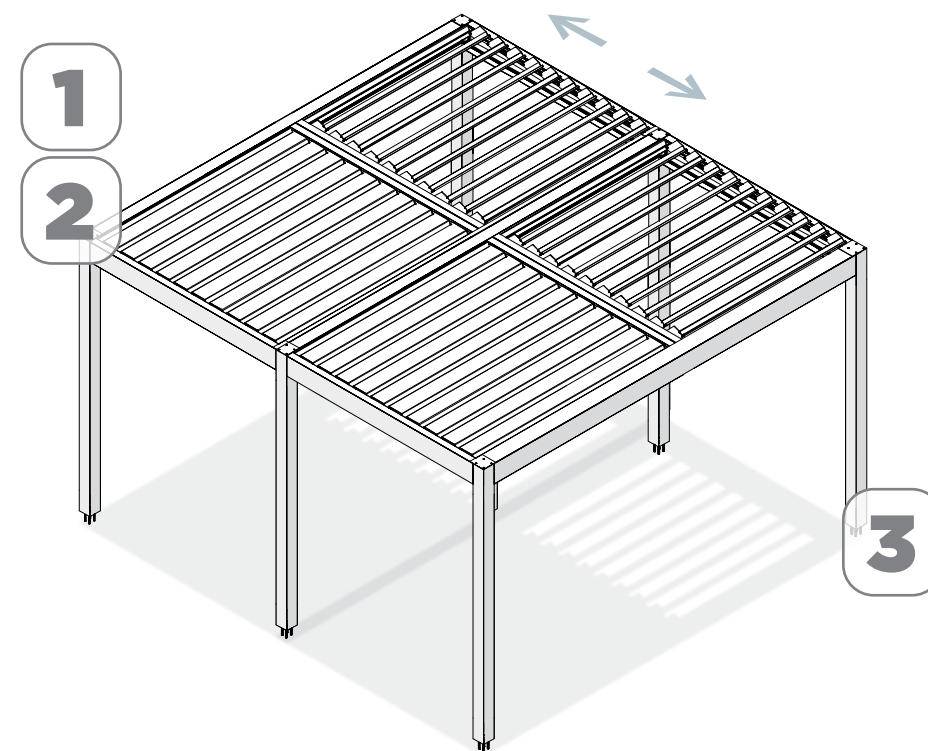
CORNER CRIMPING CONNECTION

# 3/4

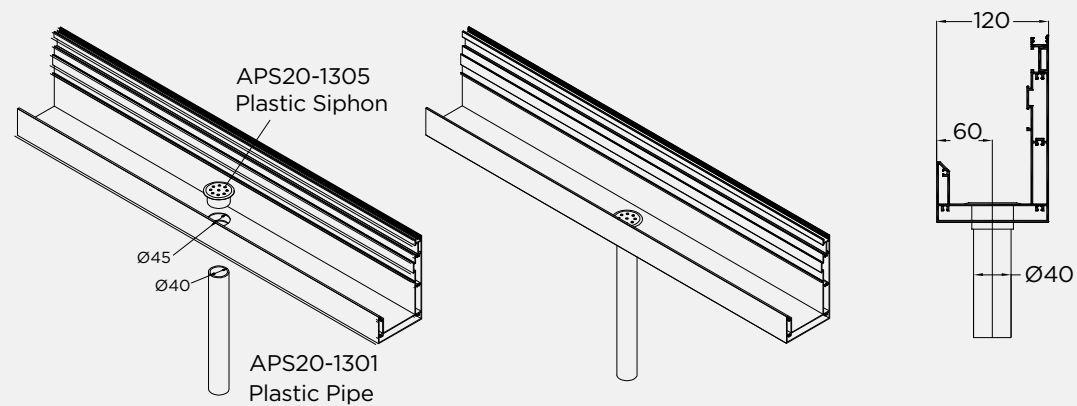


**D**

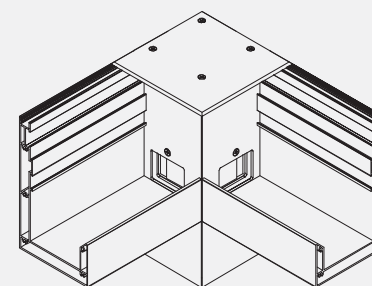
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# 7



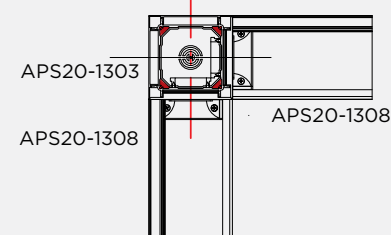
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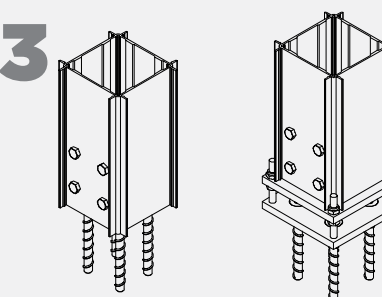
POST-TRANSOM CONNECTION

# 2

PLAN SECTION VIEW POST-DRAINAGE

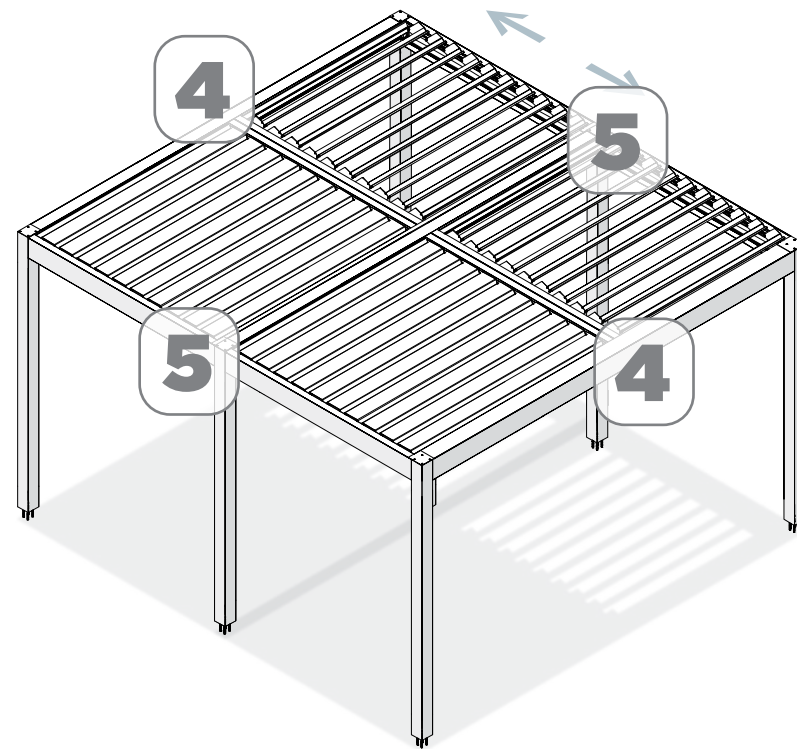


# 3



STANDARD FOOTPLATE (APS20-1211)

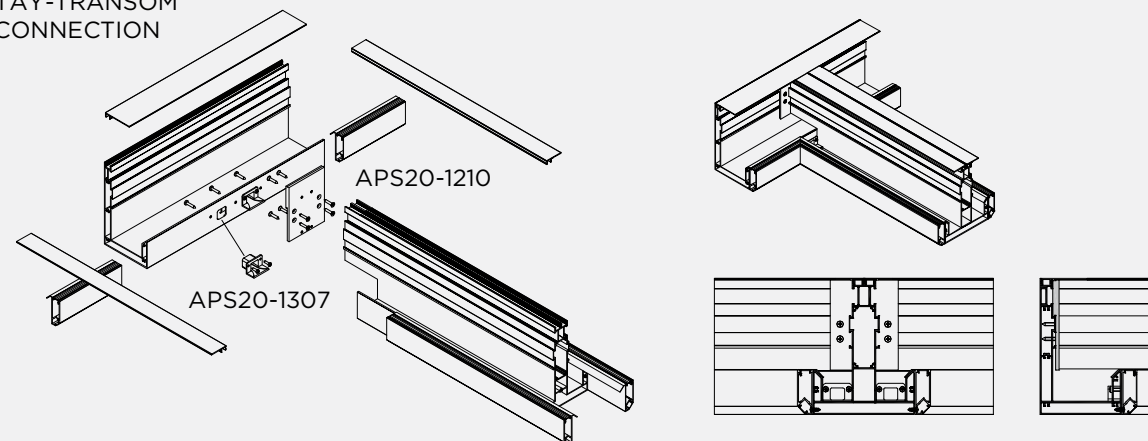
ADJUSTABLE FOOTPLATE (APS20-1212)



## ΣΥΝΟΠΤΙΚΟΣ ΚΑΤΑΛΟΓΟΣ / CATALOGUE OVERVIEW

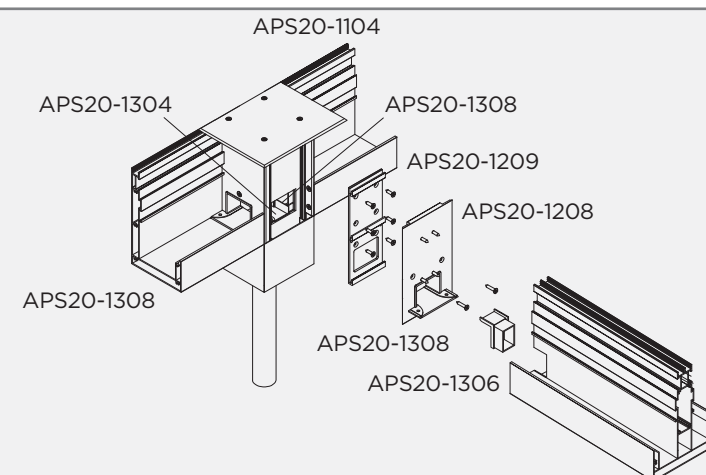
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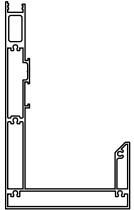
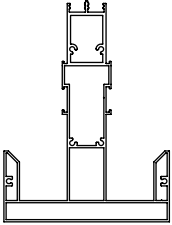
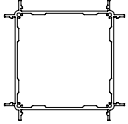
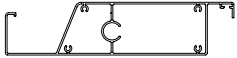
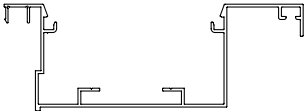
TAY-TRANSOM  
CONNECTION

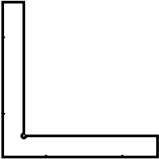
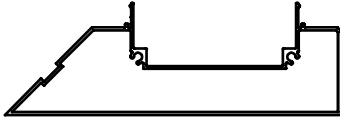
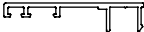


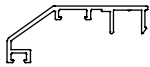
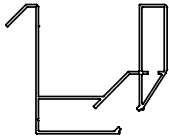
5

POST-TAY  
CONNECTION



| ΚΩΔΙΚΟΣ / CODE | ΣΧΗΜΑ / SHAPE                                                                       | ΒΑΡΟΣ / WEIGHT | ΜΗΚΟΣ / LENGTH |
|----------------|-------------------------------------------------------------------------------------|----------------|----------------|
| PS20-100       |    | 5044           | 6 & 4.5 M      |
| PS20-101       |    | 6275           | 6 & 4.5 M      |
| PS20-102       |    | 2975           | 6 M            |
| PS20-305       |   | 564            | 6 M            |
| PS20-300       |  | 1540           | 4.5 M          |
| PS20-200       |  | 2740           | 6 & 4.5 M      |
| PS20-318       |  | 631            | 4.5 M          |
| PS20-301       |  | 1534           | 4.5 M          |

| ΚΩΔΙΚΟΣ / CODE | ΣΧΗΜΑ / SHAPE                                                                         | ΒΑΡΟΣ / WEIGHT | ΜΗΚΟΣ / LENGTH |
|----------------|---------------------------------------------------------------------------------------|----------------|----------------|
| PS20-303       |    | 843            | 6 M            |
| PS20-306       |    | 512            | 6 M            |
| PS20-307       |    | 369            | 6 M            |
| PAT49-213      |   | 8286           | 5 M            |
| PS20-310       |  | 1084           | 6 & 4.5 M      |
| PAT49-414      |  | 176            | 6 & 4.5 M      |
| PS20-311       |  | 1728           | 6 M            |
| PS20-312       |  | 315            | 6 M            |

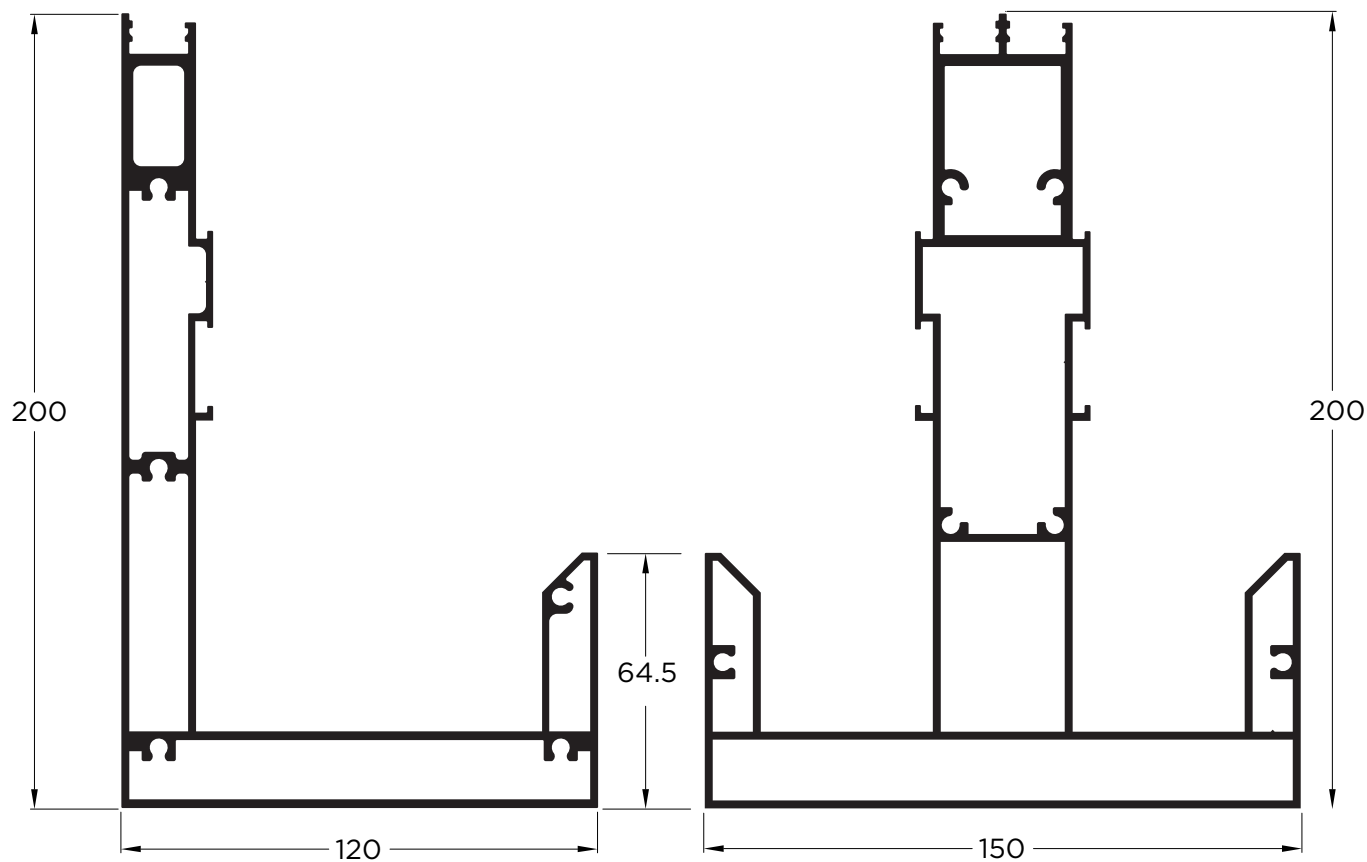
| ΚΩΔΙΚΟΣ / CODE | ΣΧΗΜΑ / SHAPE                                                                     | ΒΑΡΟΣ / WEIGHT | ΜΗΚΟΣ / LENGTH |
|----------------|-----------------------------------------------------------------------------------|----------------|----------------|
| PS20-313       |  | 373            | 6 M            |
| PS20-314       |  | 628            | 6 M            |
| PS20-315       |  | 1126           | 6 M            |
| PS20-316       |  | 827            | 6 M            |

 **Freedom**  
Bioclimatic  
Pergola

**ALUMINCO**

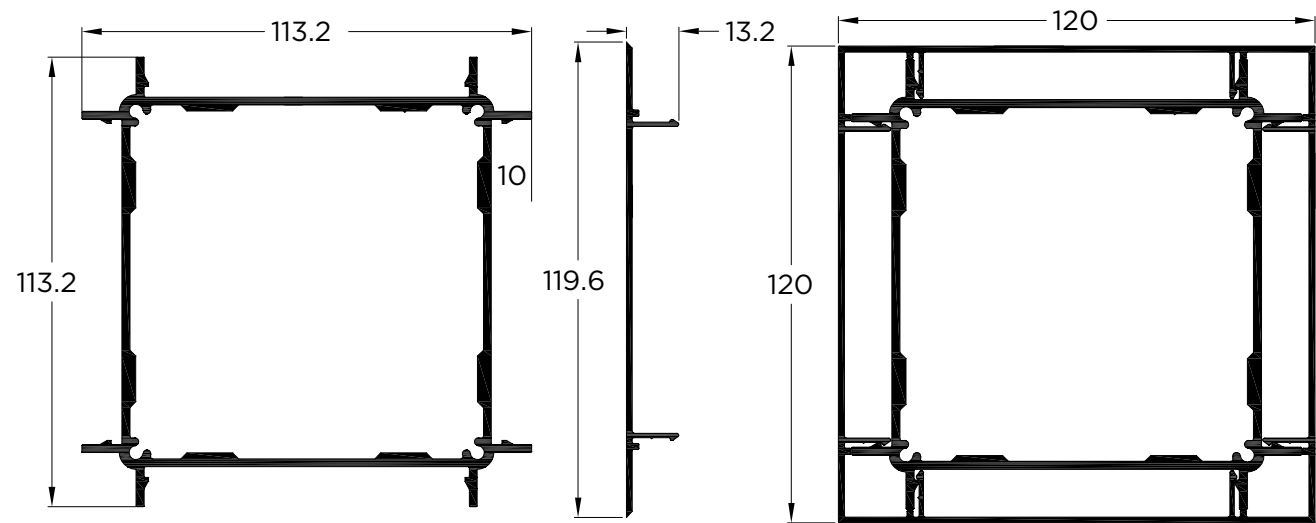
**ΠΡΟΦΙΛ 1:2 / PROFILES 1:2**





|                                       |                                  |
|---------------------------------------|----------------------------------|
| Κωδικός   Code                        | PS20-100                         |
| Βάρος   Weight                        | 5044 gr/m                        |
| Περιγραφή<br>Description              | Οδηγός Τραβέρσα<br>Traverse Rail |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>                  |
| Ix                                    | 769                              |
| Iy                                    | 337                              |

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| Κωδικός   Code                        | PS20-101                                 |
| Βάρος   Weight                        | 6275 gr/m                                |
| Περιγραφή<br>Description              | ΤΑΥ Οδηγός Τραβέρσα<br>Tee Traverse Rail |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>                          |
| Ix                                    | 933                                      |
| Iy                                    | 393                                      |

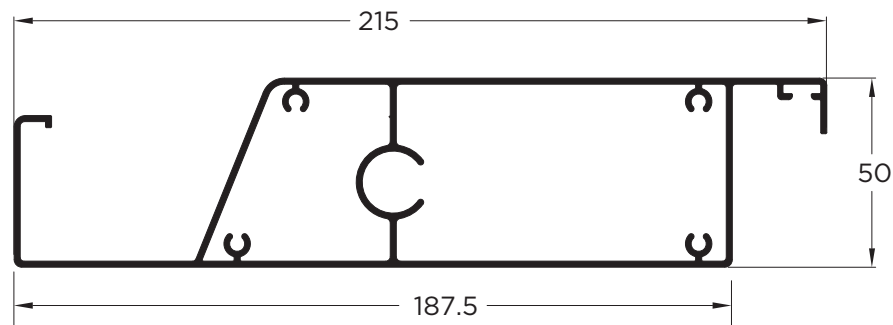


|                                       |                 |
|---------------------------------------|-----------------|
| Κωδικός   Code                        | PS20-102        |
| Βάρος   Weight                        | 2975 gr/m       |
| Περιγραφή<br>Description              | Κολώνα<br>Post  |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup> |
| Ix                                    | 347             |
| Iy                                    | 347             |

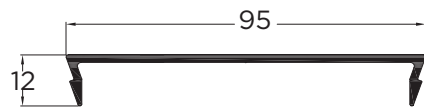
|                          |                              |
|--------------------------|------------------------------|
| Κωδικός   Code           | PS20-305                     |
| Βάρος   Weight           | 564 gr/m                     |
| Περιγραφή<br>Description | Καπάκι Κολώνας<br>Post Cover |

|                                       |                 |
|---------------------------------------|-----------------|
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup> |
| Ix                                    | 361             |
| Iy                                    | 361             |

Συστημα Συντεταγμένων (UCS)

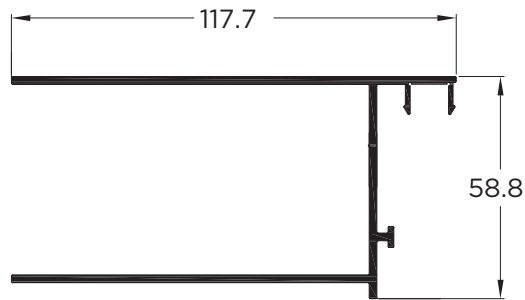


|                                       |                           |
|---------------------------------------|---------------------------|
| Κωδικός   Code                        | PS20-200                  |
| Βάρος   Weight                        | 2740 gr/m                 |
| Περιγραφή<br>Description              | Περσίδα<br>Louver / Blind |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>           |
| Ix                                    | 41.8                      |
| Iy                                    | 388                       |

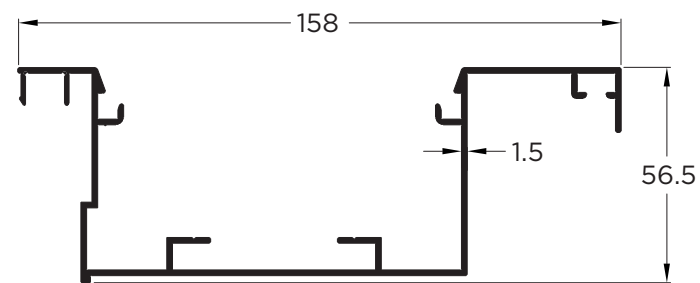


|                          |                     |
|--------------------------|---------------------|
| Κωδικός   Code           | PS20-318            |
| Βάρος   Weight           | 631 gr/m            |
| Περιγραφή<br>Description | Καπάκι<br>Top Cover |

|                                       |                 |
|---------------------------------------|-----------------|
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup> |
| Ix                                    | 0.2             |
| Iy                                    | 23.7            |



|                                       |                     |
|---------------------------------------|---------------------|
| Κωδικός   Code                        | PS20-300            |
| Βάρος   Weight                        | 1540 gr/m           |
| Περιγραφή<br>Description              | Προσθήκη<br>Adapter |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>     |
| Ix                                    | 33.4                |
| Iy                                    | 64.2                |

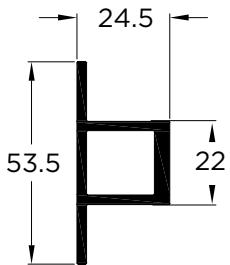


|                          |                     |
|--------------------------|---------------------|
| Κωδικός   Code           | PS20-301            |
| Βάρος   Weight           | 1534 gr/m           |
| Περιγραφή<br>Description | Προσθήκη<br>Adapter |

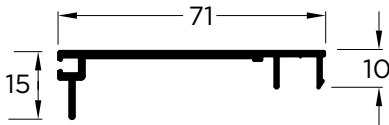
|                                       |                 |
|---------------------------------------|-----------------|
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup> |
| Ix                                    | 27              |
| Iy                                    | 143             |

Συστημα Συντεταγμένων (UCS)

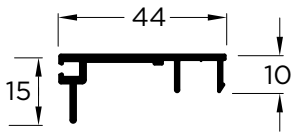
Συστημα Συντεταγμένων (UCS)



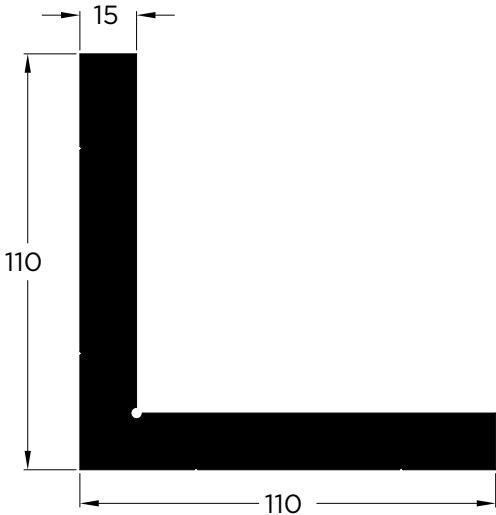
|                                       |                              |
|---------------------------------------|------------------------------|
| Κωδικός   Code                        | PS20-303                     |
| Βάρος   Weight                        | 843 gr/m                     |
| Περιγραφή                             | Οδηγός Περιστροφής Περισίδας |
| Description                           | Louver Rotation Guiderail    |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>              |
| Ix                                    | 5.5                          |
| Iy                                    | 2.7                          |



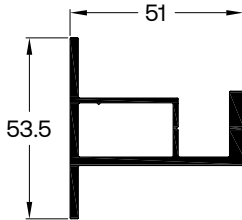
|                                       |                 |
|---------------------------------------|-----------------|
| Κωδικός   Code                        | PS20-306        |
| Βάρος   Weight                        | 500 gr/m        |
| Περιγραφή                             | Πηνάκι          |
| Description                           | Bead            |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup> |
| Ix                                    | 0               |
| Iy                                    | 6               |



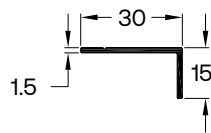
|                                       |                 |
|---------------------------------------|-----------------|
| Κωδικός   Code                        | PS20-307        |
| Βάρος   Weight                        | 356 gr/m        |
| Περιγραφή                             | Πηνάκι          |
| Description                           | Bead            |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup> |
| Ix                                    | 0               |
| Iy                                    | 1.5             |



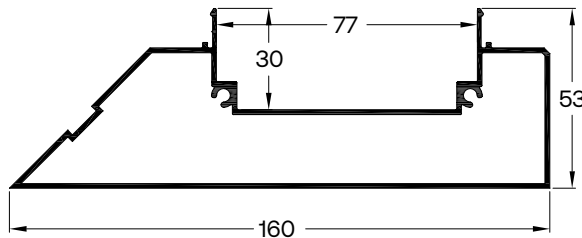
|                                       |                       |
|---------------------------------------|-----------------------|
| Κωδικός   Code                        | PAT49-213             |
| Βάρος   Weight                        | 8286 gr/m             |
| Περιγραφή                             | Γωνία Στηρίξης Τοίχου |
| Description                           | Wall Mount Angle      |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>       |
| Ix                                    | 341.3                 |
| Iy                                    | 341.3                 |



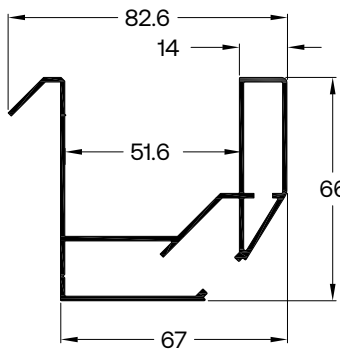
|                                       |                               |
|---------------------------------------|-------------------------------|
| Κωδικός   Code                        | PS20-310                      |
| Βάρος   Weight                        | 1084 gr/m                     |
| Περιγραφή                             | Στροφέας Περισίδων            |
| Description                           | Louver / Blind Rotation Guide |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>               |
| Ix                                    | 4.83                          |
| Iy                                    | 14.85                         |



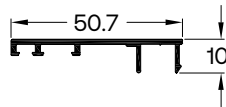
|                                       |                             |
|---------------------------------------|-----------------------------|
| Κωδικός   Code                        | PAT49-414                   |
| Βάρος   Weight                        | 176 gr/m                    |
| Περιγραφή                             | Καπάκι Στροφέα Περισίδων    |
| Description                           | Louver Rotation Guide Cover |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>             |
| Ix                                    | 0.11                        |
| Iy                                    | 0.62                        |



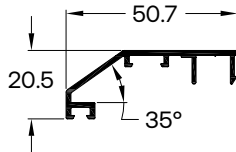
|                                       |                           |
|---------------------------------------|---------------------------|
| Κωδικός   Code                        | PS20-311                  |
| Βάρος   Weight                        | 1728 gr/m                 |
| Περιγραφή                             | Ενισχυτικό Καπάκι Κολώνας |
| Description                           | Extra Column Side Cover   |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>           |
| Ix                                    | 15.83                     |
| Iy                                    | 151.85                    |



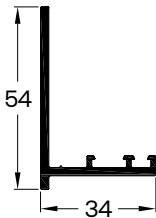
|                                       |                 |
|---------------------------------------|-----------------|
| Κωδικός   Code                        | PS20-315        |
| Βάρος   Weight                        | 1126 gr/m       |
| Περιγραφή                             | Προφίλ LED      |
| Description                           | LED Profile     |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup> |
| Ix                                    | 17.8            |
| Iy                                    | 28.1            |



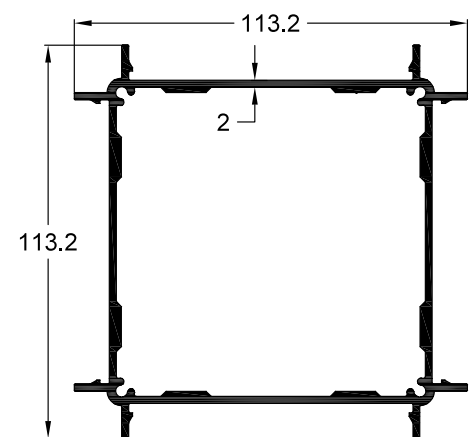
|                                       |                 |
|---------------------------------------|-----------------|
| Κωδικός   Code                        | PS20-312        |
| Βάρος   Weight                        | 315 gr/m        |
| Περιγραφή                             | Καπάκι Πάnel    |
| Description                           | Panel Top Cover |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup> |
| Ix                                    | 0.05            |
| Iy                                    | 2.95            |



|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Κωδικός   Code                        | PS20-313                                |
| Βάρος   Weight                        | 373 gr/m                                |
| Περιγραφή                             | Καπάκι Πάnel / Τζαμ / Polycarbonate     |
| Description                           | Panel / Glass / Polycarbonate Top Cover |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>                         |
| Ix                                    | 0.52                                    |
| Iy                                    | 3.73                                    |

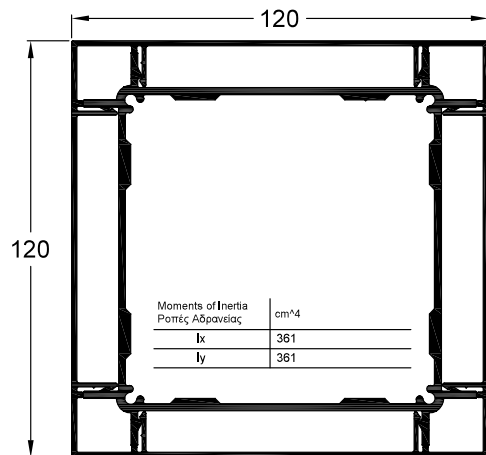


|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Κωδικός   Code                        | PS20-314                              |
| Βάρος   Weight                        | 628 gr/m                              |
| Περιγραφή                             | Βάση Πάnel / Τζαμ / Polycarbonate     |
| Description                           | Panel / Glass / Polycarbonate Support |
| Moments of Inertia<br>Ρομές Αδρανείας | cm <sup>4</sup>                       |
| Ix                                    | 5.83                                  |
| Iy                                    | 2.72                                  |

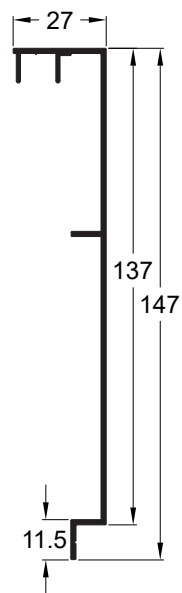


|                |           |
|----------------|-----------|
| Κωδικός   Code | PS20-102  |
| Βάρος   Weight | 2975 gr/m |
| Περιγραφή      | Κολώνα    |
| Description    | Post      |

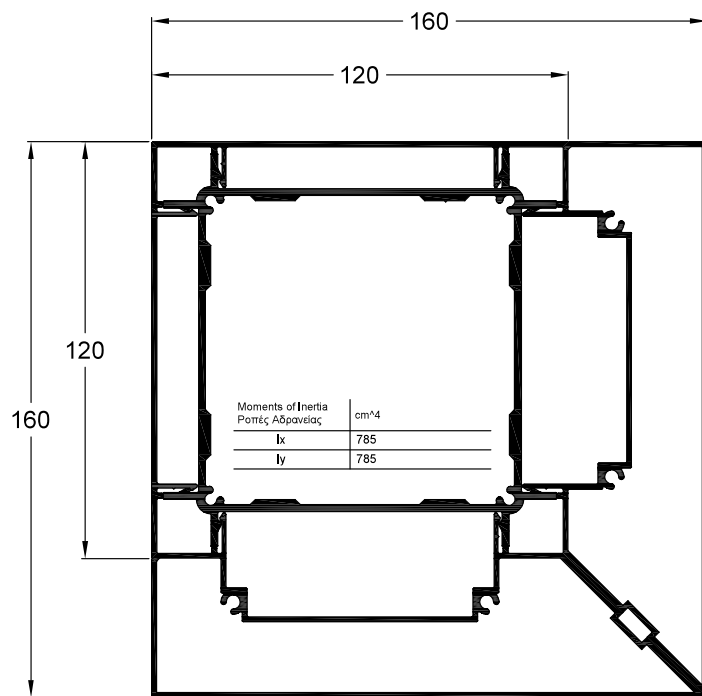
|                                       |                 |
|---------------------------------------|-----------------|
| Moments of Inertia<br>Ροπές Αδρανείας | cm <sup>4</sup> |
| I <sub>x</sub>                        | 347             |
| I <sub>y</sub>                        | 347             |



|                                       |                 |
|---------------------------------------|-----------------|
| Moments of Inertia<br>Ροπές Αδρανείας | cm <sup>4</sup> |
| I <sub>x</sub>                        | 361             |
| I <sub>y</sub>                        | 361             |



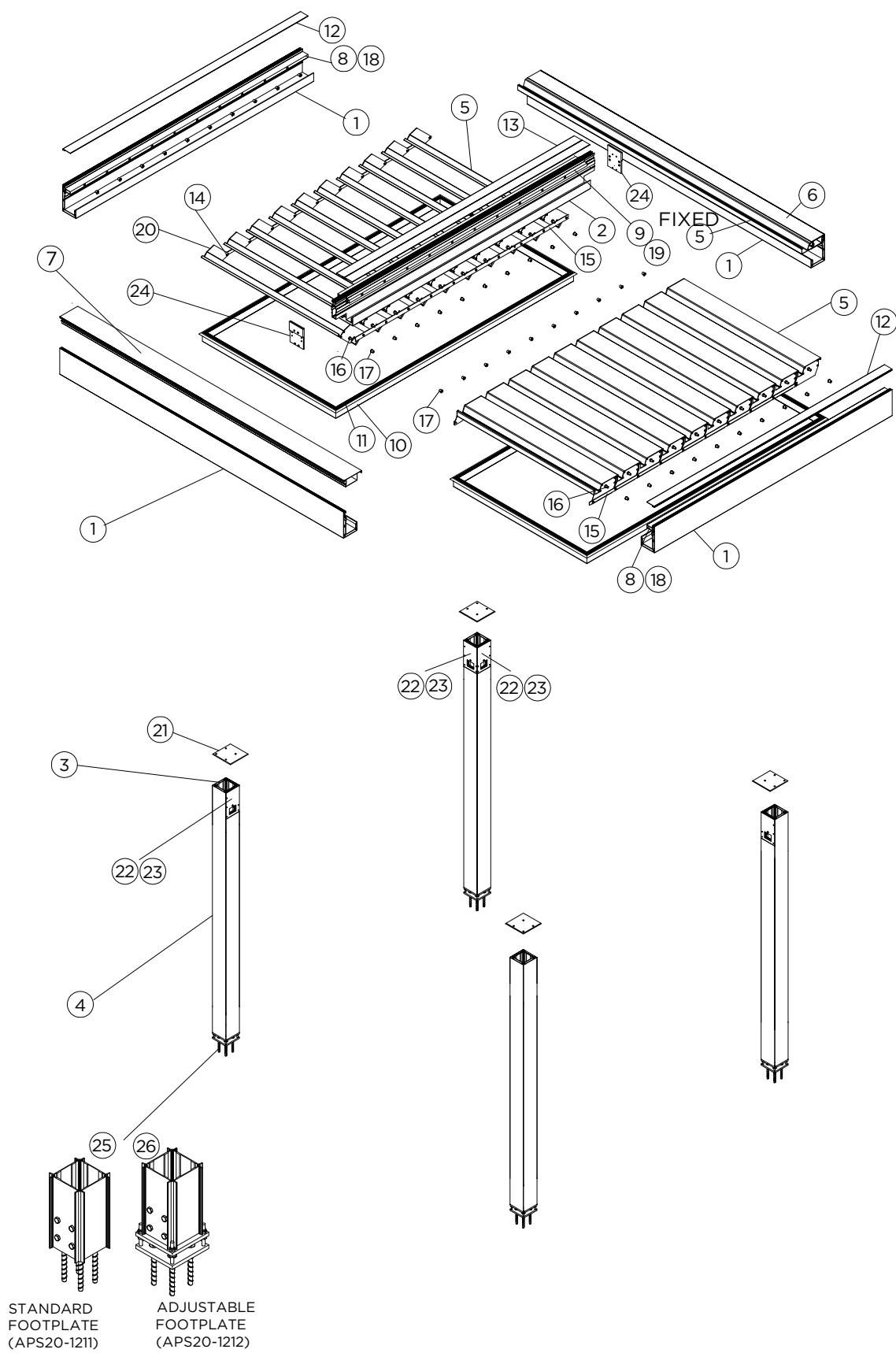
|                |                            |
|----------------|----------------------------|
| Κωδικός   Code | PS20-316                   |
| Βάρος   Weight | 827 gr/m                   |
| Περιγραφή      | Οδηγός Σταθερών Πεταλούδων |
| Description    | Fixed Louvers GuideRail    |



|                                       |                 |
|---------------------------------------|-----------------|
| Moments of Inertia<br>Ροπές Αδρανείας | cm <sup>4</sup> |
| I <sub>x</sub>                        | 785             |
| I <sub>y</sub>                        | 785             |

## ΛΙΣΤΑ ΥΛΙΚΩΝ / PARTS LIST

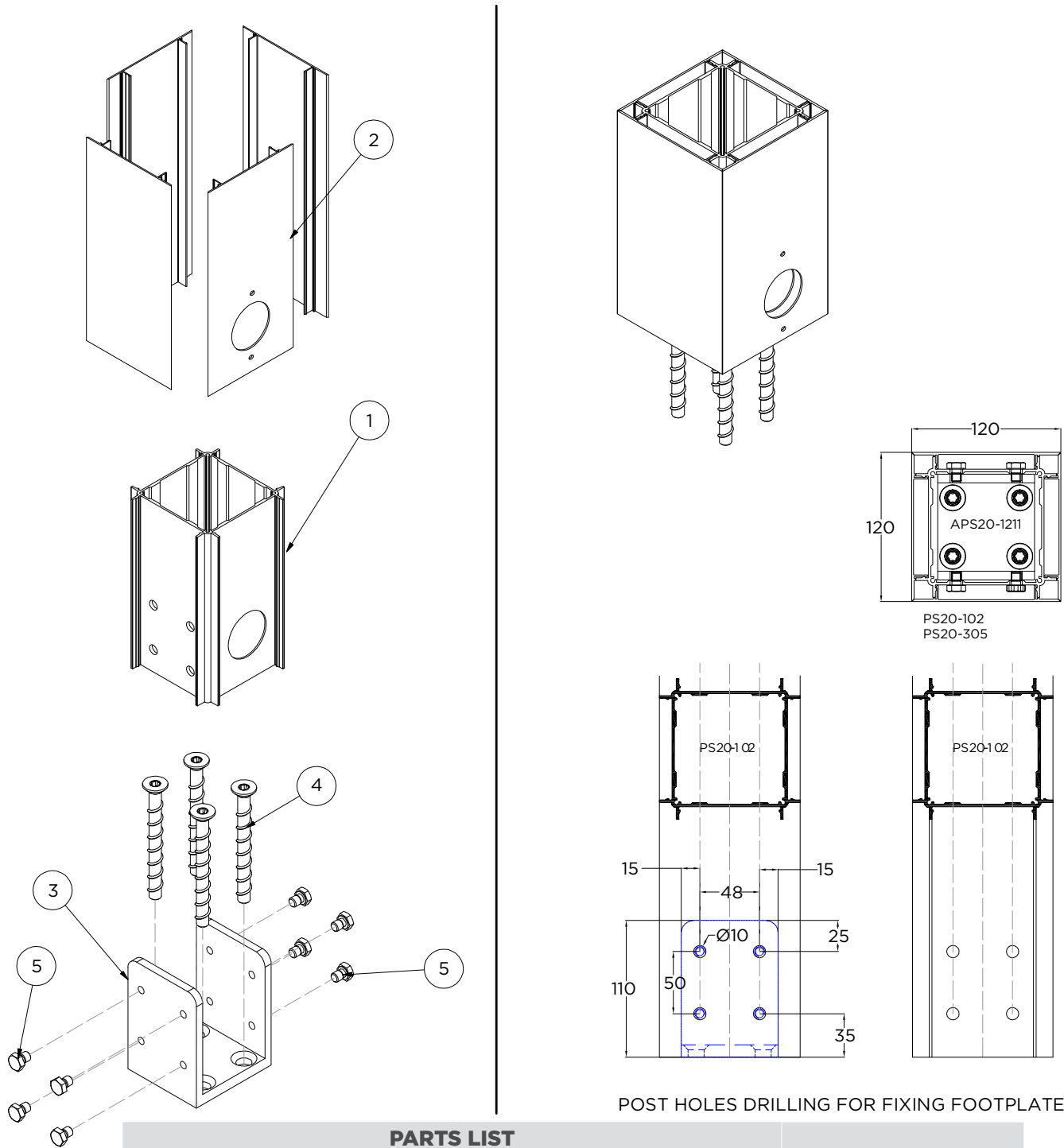
ΠΡΟΟΠΤΙΚΟ ΣΧΗΜΑ ΑΠΟΔΟΜΗΣΗΣ  
ΒΙΟΚΛΙΜΑΤΙΚΗΣ ΠΕΡΓΚΟΛΑΣ  
BIO-CLIMATE PERGOLA EXPLODED VIEW



| ITEM | PAR NUMBER           | DESCRIPTION                            | MATERIAL          |
|------|----------------------|----------------------------------------|-------------------|
| 1    | PS20-100             | Transom Profile                        | ALUMINUM 6063-T66 |
| 2    | PS20-101             | T-Profile                              | ALUMINUM 6063-T66 |
| 3    | PS20-102             | Post Profile                           | ALUMINUM 6063-T66 |
| 4    | PS20-305             | Post Cover Profile                     | ALUMINUM 6060-T66 |
| 5    | PS20-200             | Louver Profile                         | ALUMINUM 6060-T66 |
| 6    | PS20-300             | Extension Profile to Fixed Louver      | ALUMINUM 6060-T66 |
| 7    | PS20-301             | Extension Profile                      | ALUMINUM 6060-T66 |
| 8    | PS20-310 / PAT49-414 | Transom Louver Guiderail Profile       | ALUMINUM 6060-T66 |
| 9    | PS20-303             | T-Profile Louver Guiderail Profile     | ALUMINUM 6060-T66 |
| 10   | PS20-315             | LED Clipping Profile                   | ALUMINUM 6060-T66 |
| 11   | PS20-315             | LED Clipping Profile                   | ALUMINUM 6060-T66 |
| 12   | PS20-306             | Transom Cover Profile                  | ALUMINUM 6060-T66 |
| 13   | PS20-307             | T-Profile Cover Profile                | ALUMINUM 6060-T66 |
| 14   | APS20-1201           | Louver-Motion Blade Connection Pin     | INOX 316          |
| 15   | APS20-1501           | Motion Blade                           | ALUMINUM 6060-T66 |
| 16   | APS20-1223           | Fixed Pin                              | BRASS             |
| 17   | APS20-1224           | PINS Bush                              | BRASS             |
| 18   | APS20-1516 / 1518    | PS20-310 / PAT49-414 Louver Guide Rail | ALUMINUM 6060-T66 |
| 19   | APS20-1517           | PS20-303 Louver Guide Rail             | ALUMINUM 6060-T66 |
| 20   | APS20-1101           | Louver Side Covers (SET)               | ALUMINUM 6060-T66 |
| 21   | APS20-1103           | Post Cover                             | ALUMINUM 6060-T66 |
| 22   | APS20-1206           | Transom Corner Hangers (SET)           | ALUMINUM 6063-T66 |
| 23   | APS20-1207           | Post Corner Hangers (SET)              | ALUMINUM 6063-T66 |
| 24   | APS20-1210           | T-Profile Transom Hanger               | ALUMINUM 6063-T66 |
| 25   | APS20-1211           | Standard Footplate                     | GALVANIZED STEEL  |
| 26   | APS20-1212           | Adjustable Footplate                   | GALVANIZED STEEL  |

1-A3

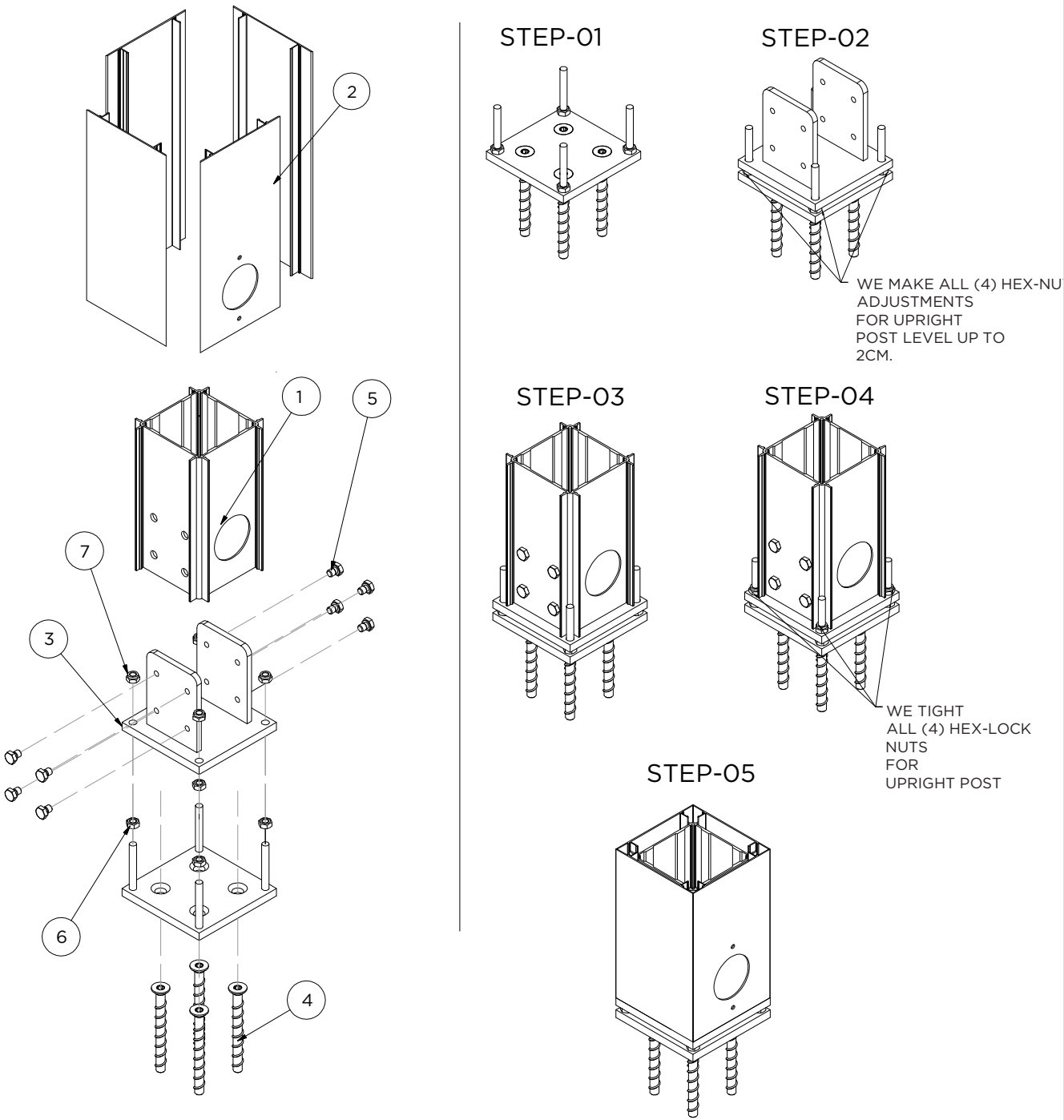
ΣΤΑΘΕΡΟ ΠΕΛΜΑ ΒΙΟΚΛΙΜΑΤΙΚΗΣ ΠΕΡΓΚΟΛΑΣ  
BIO-PERGOLA STANDARD FIXING FOOTPLATE



| PARTS LIST |     |                   |                            |                   |
|------------|-----|-------------------|----------------------------|-------------------|
| ITEM       | QTY | PAR NUMBER        | DESCRIPTION                | MATERIAL          |
| 1          | 1   | PS20-102          | Post                       | ALUMINUM 6063-T66 |
| 2          | 1   | PS20-305          | POST COVER                 | ALUMINUM 6060-T66 |
| 3          | 1   | APS20-1211        | BIO-PERGOLA FIX FOOTPLATE  | GALVANIZED STEEL  |
| 4          | 4   | EMB10-120G/2      | COUNTERSUNK CONCRETE SCREW | GALVANIZED STEEL  |
| 5          | 8   | DIN 933 - M8 x 10 | Hex-Head Bolt              | STAINLESS STEEL   |

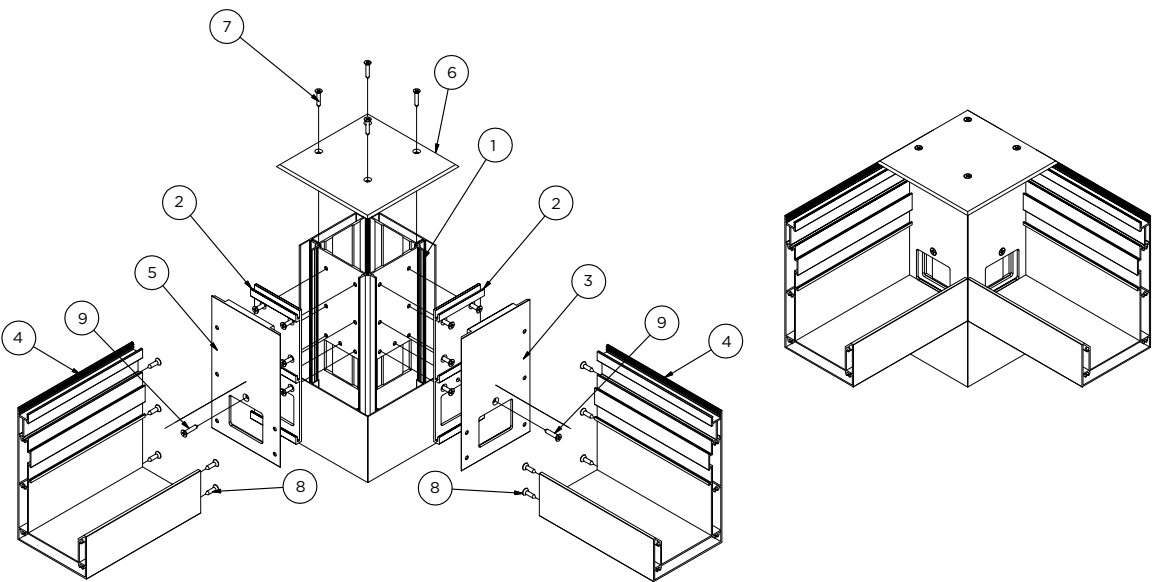
1-B3

ΡΥΘΜΙΖΟΜΕΝΟ ΠΕΛΜΑ ΒΙΟΚΛΙΜΑΤΙΚΗΣ ΠΕΡΓΚΟΛΑΣ  
BIO-PERGOLA ADJUSTABLE FIXING FOOTPLATE

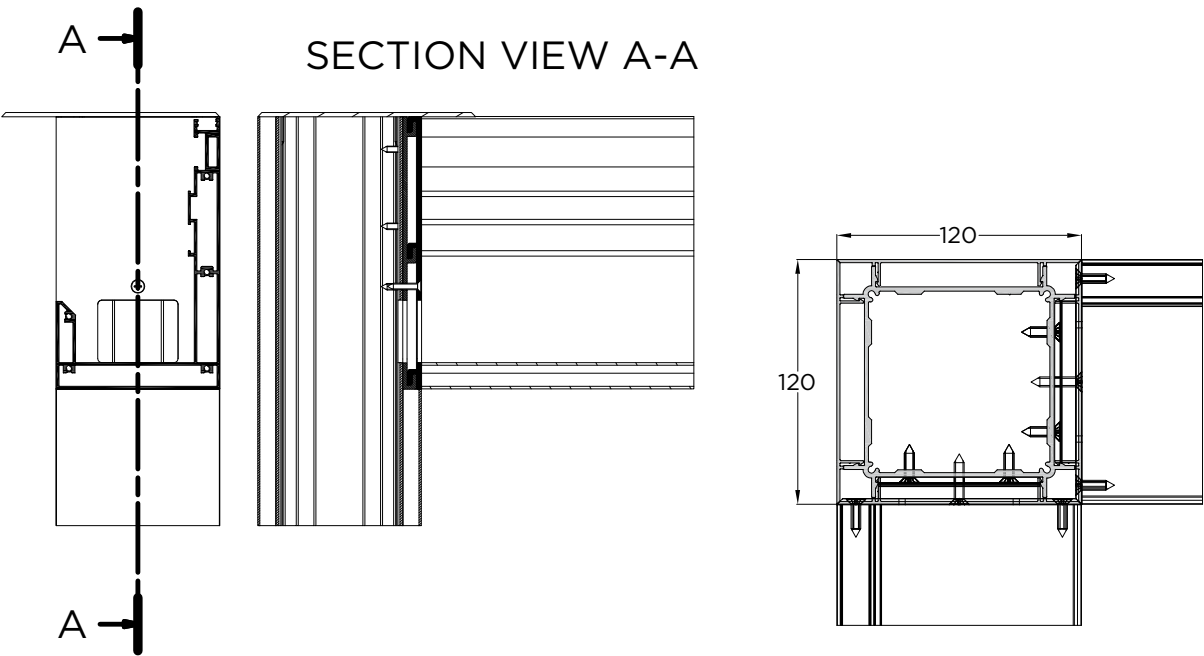


| PARTS LIST |     |                   |                                  |                   |
|------------|-----|-------------------|----------------------------------|-------------------|
| ITEM       | QTY | PAR NUMBER        | DESCRIPTION                      | MATERIAL          |
| 1          | 1   | PS20-102          | Post                             | ALUMINUM 6063-T66 |
| 2          | 1   | PS20-305          | POST COVER                       | ALUMINUM 6060-T66 |
| 3          | 1   | APS20-1212        | BIO-PERGOLA ADJUSTABLE FOOTPLATE | GALVANIZED STEEL  |
| 4          | 4   | EMB10-120G/2      | COUNTERSUNK CONCRETE SCREW       | GALVANIZED STEEL  |
| 5          | 8   | DIN 933 - M8 x 10 | Hex-Head Bolt                    | STAINLESS STEEL   |
| 6          | 8   | DIN 934 - M8      | Hex-Nut                          | STAINLESS STEEL   |
| 7          | 8   | DIN 985 - M8      | Hex-Lock Nut                     | STAINLESS STEEL   |

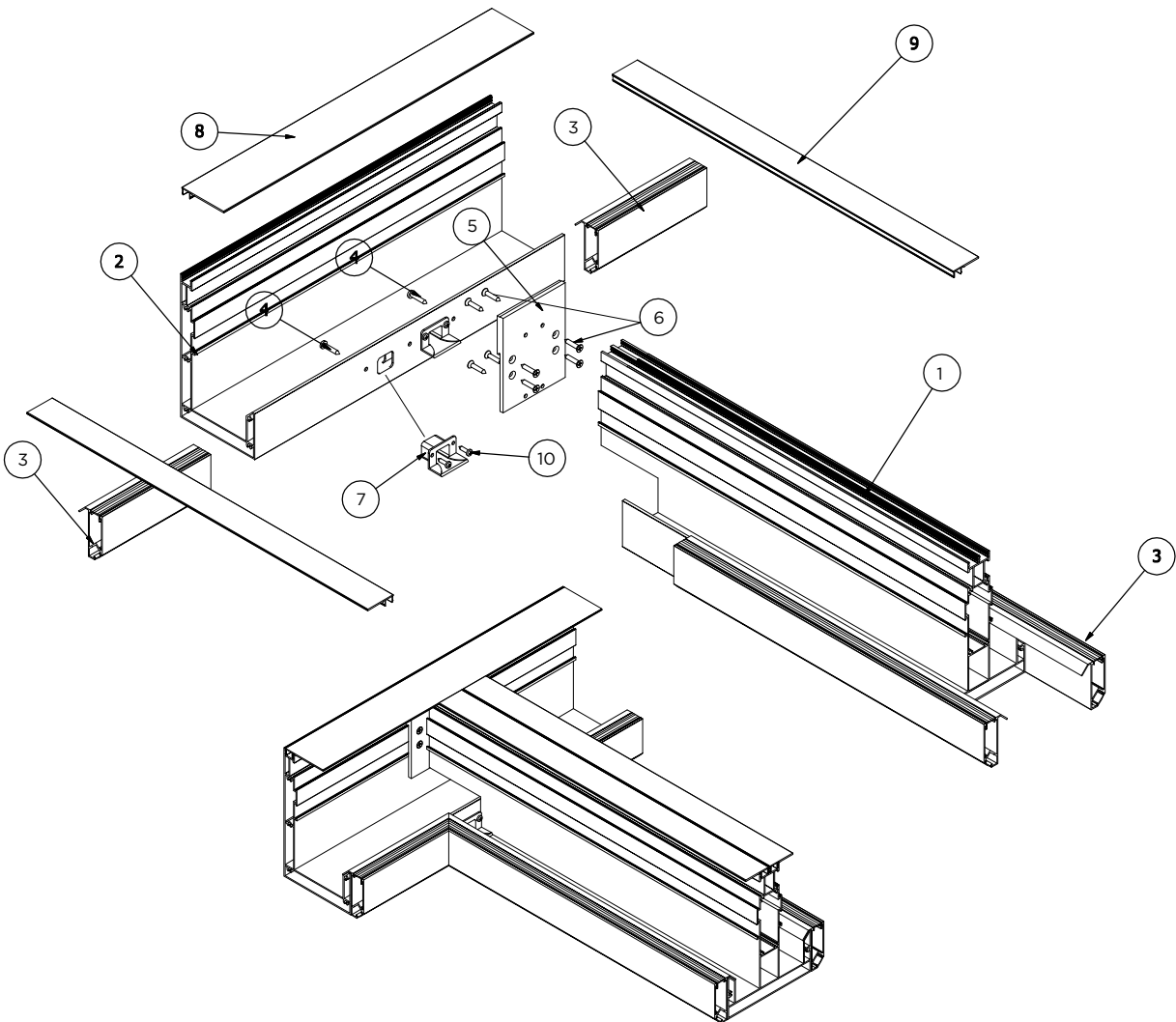
ΣΥΝΔΕΣΗ ΚΟΛΩΝΑΣ ΜΕ ΤΡΑΒΕΡΣΑ  
POST - TRANSOM FIXATION



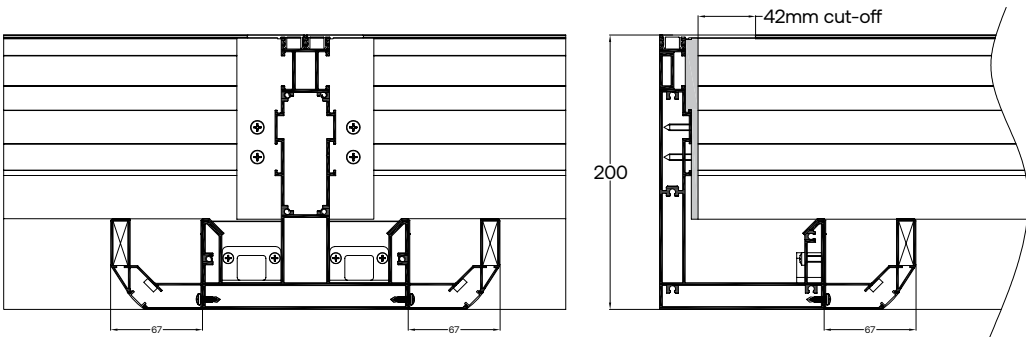
| PARTS LIST |     |                       |                                  |                   |
|------------|-----|-----------------------|----------------------------------|-------------------|
| ITEM       | QTY | PAR NUMBER            | DESCRIPTION                      | MATERIAL          |
| 1          | 1   | PS20-102              | Post                             | ALUMINUM 6063-T66 |
| 2          | 2   | APS20-1207            | BIO-Hanger ONTO POST PS20-102    | ALUMINUM 6063-T66 |
| 3          | 1   | APS20-1206 (PAIR L/R) | BIO-Hanger ONTO TRANSOM PS20-100 | ALUMINUM 6063-T66 |
| 4          | 2   | PS20-100              | Transom                          | ALUMINUM 6063-T66 |
| 5          | 1   | APS20-1206 (PAIR L/R) | BIO-Hanger ONTO TRANSOM PS20-100 | ALUMINUM 6063-T66 |
| 6          | 1   | APS20-1103            | Post Cover                       | ALUMINUM 6060-T66 |
| 7          | 4   | DIN 7982-C 4.2x19     | (Sheetmetal) Tapping Screw       | STAINLESS STEEL   |
| 8          | 22  | DIN 7982-C 4.8x19     | (Sheetmetal) Tapping Screw       | STAINLESS STEEL   |
| 9          | 2   | DIN 7982-C - ST4.8x22 | (Sheetmetal) Tapping Screw       | STAINLESS STEEL   |



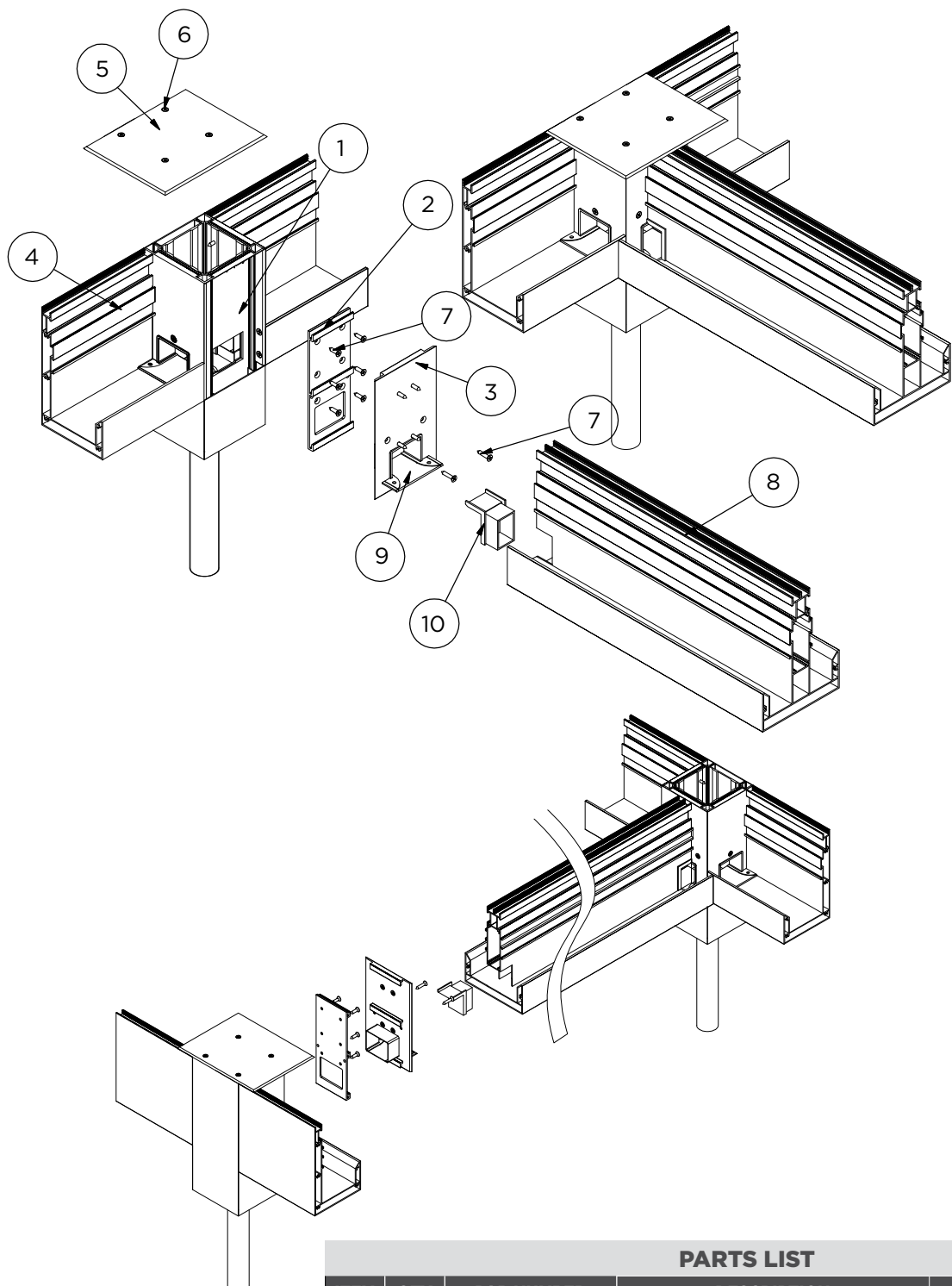
ΣΥΝΔΕΣΗ ΤΡΑΒΕΡΣΑ ΜΕ ΤΑΥ-01  
TAY/T-PROFILE - TRANSOM FIXATION



| PARTS LIST |     |                   |                                      |                   |
|------------|-----|-------------------|--------------------------------------|-------------------|
| ITEM       | QTY | PAR NUMBER        | DESCRIPTION                          | MATERIAL          |
| 1          | 1   | PS20-101          | T-Profile                            | ALUMINUM 6063-T66 |
| 2          | 1   | PS20-100          | Transom Profile                      | ALUMINUM 6063-T66 |
| 3          | 4   | PS20-315          | Transom & T-Profile Clipping Profile | ALUMINUM 6060-T66 |
| 4          | 2   | DIN 6928-4.8x25   | Sheetmetal Screw                     | STAINLESS STEEL   |
| 5          | 1   | APS20-1210        | T-Profile Hanger                     | ALUMINUM 6063-T66 |
| 6          | 8   | DIN 7982-C 4.8x25 | Sheetmetal Screw                     | STAINLESS STEEL   |
| 7          | 2   | APS20-1307        | T-Profile Plastic Water Drainage     | PLASTIC           |
| 8          | 1   | PS20-306          | Transom Cover Profile                | ALUMINUM 6060-T66 |
| 9          | 2   | PS20-307          | T-Profile Cover Profile              | ALUMINUM 6060-T66 |
| 10         | 4   | DIN 7981- 4.2x16  | Sheetmetal Screw                     | STAINLESS STEEL   |

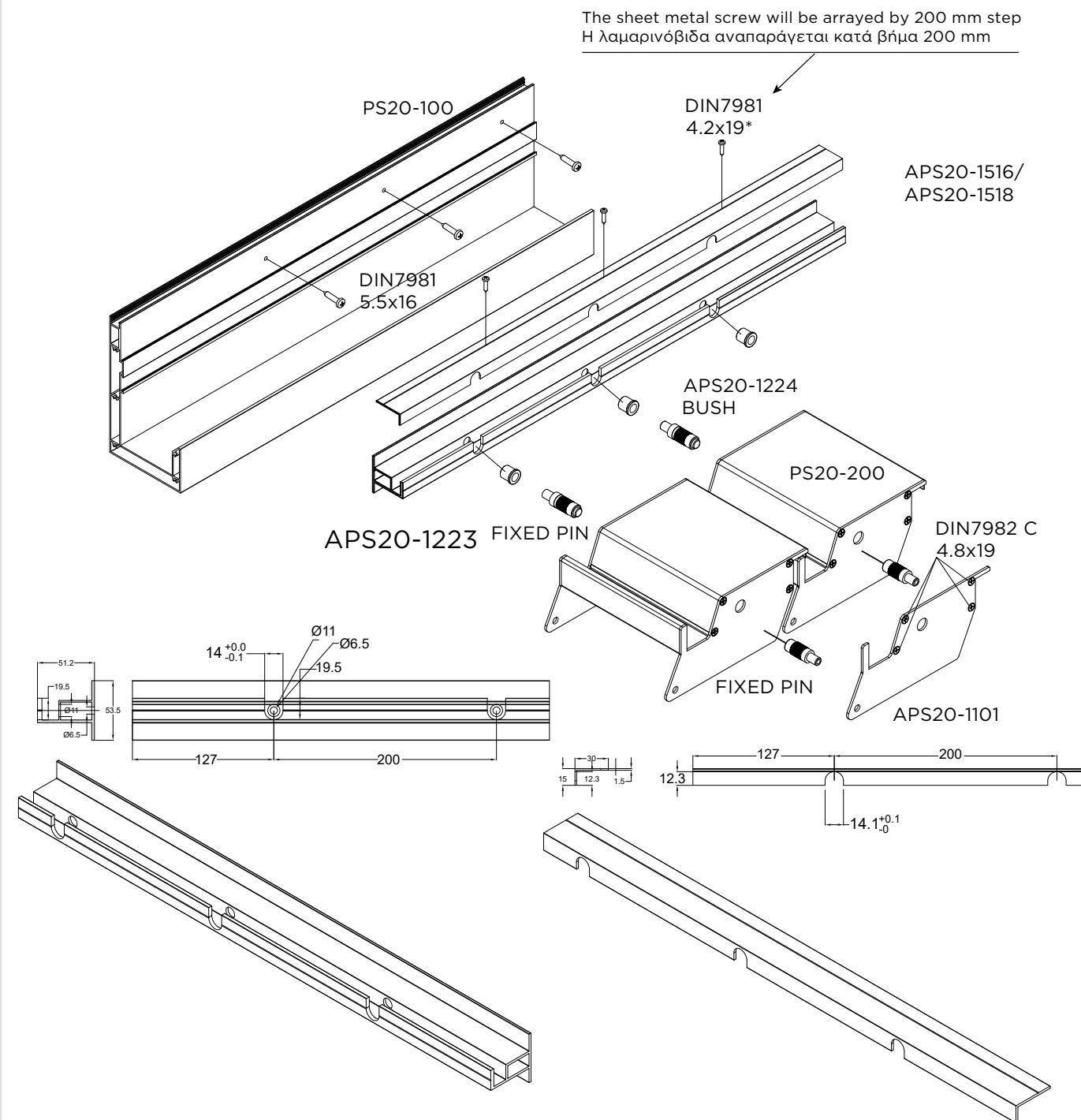


## ΣΥΝΔΕΣΗ ΚΟΛΩΝΑΣ ΜΕ ΤΑΥ POST - TAY/T-PROFILE FIXATION

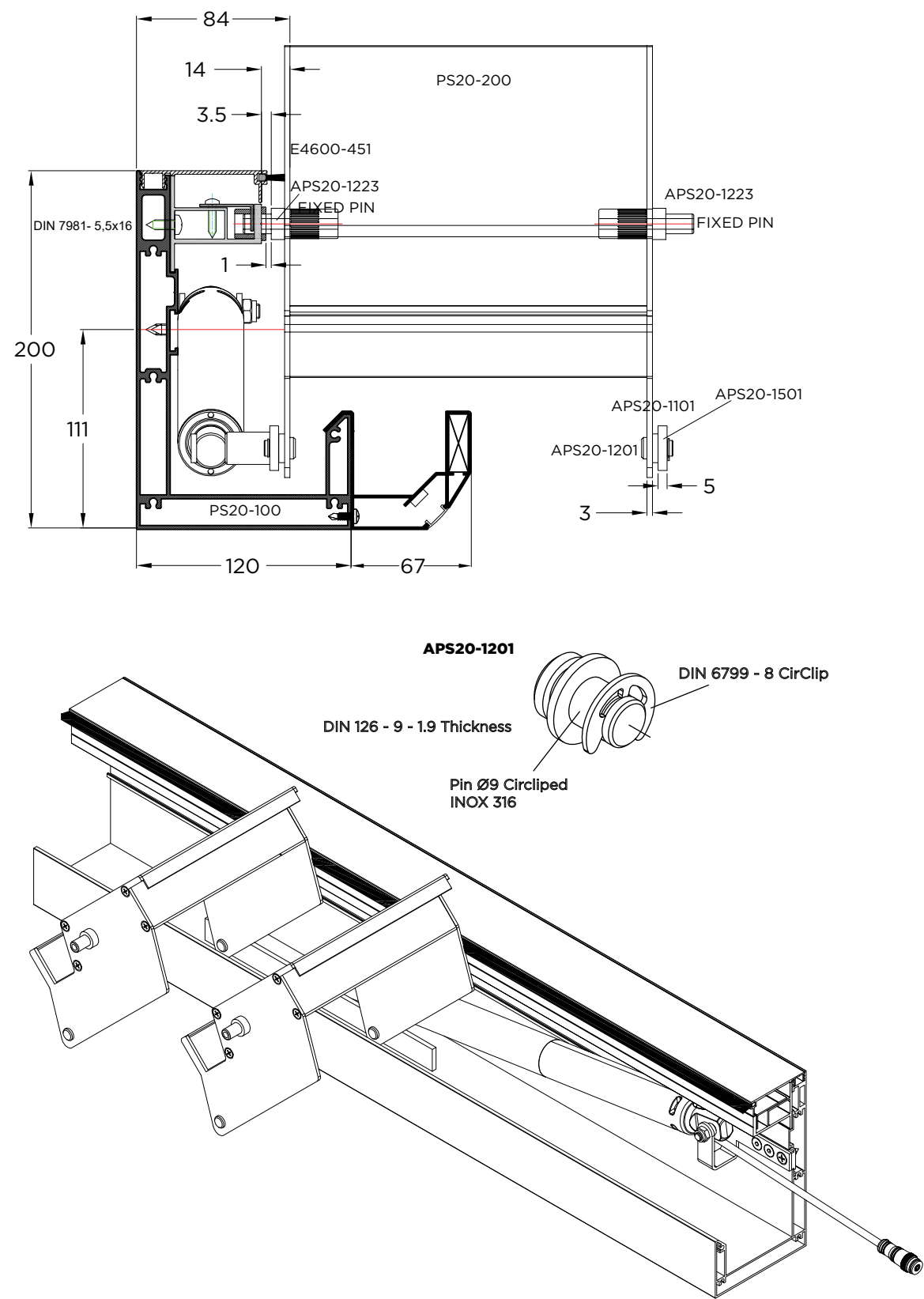


| PARTS LIST |     |                   |                                     |                   |
|------------|-----|-------------------|-------------------------------------|-------------------|
| ITEM       | QTY | PAR NUMBER        | DESCRIPTION                         | MATERIAL          |
| 1          | 1   | PS20-102          | Post                                | ALUMINUM 6063-T66 |
| 2          | 1   | APS20-1209        | T-Profile Hanger ONTO the Post      | ALUMINUM 6063-T66 |
| 3          | 1   | APS20-1208        | T-Profile Hanger ONTO the T-Profile | ALUMINUM 6063-T66 |
| 4          | 1   | PS20-100          | Transom                             | ALUMINUM 6063-T66 |
| 5          | 1   | APS20-1104        | T-Profile - Post Cover              | ALUMINUM 6060-T66 |
| 6          | 4   | DIN 7982-C 4.2x19 | Sheetmetal Screw                    | STAINLESS STEEL   |
| 7          | 42  | DIN 7982-C 4.8x19 | Sheetmetal Screw                    | STAINLESS STEEL   |
| 8          | 1   | PS20-101          | T-Profile                           | ALUMINUM 6063-T66 |
| 9          | 1   | APS20-1308        | Plastic Water Drainage Shim         | PLASTIC           |
| 10         | 1   | APS20-1306        | T-Profile Plastic Cover             | PLASTIC           |

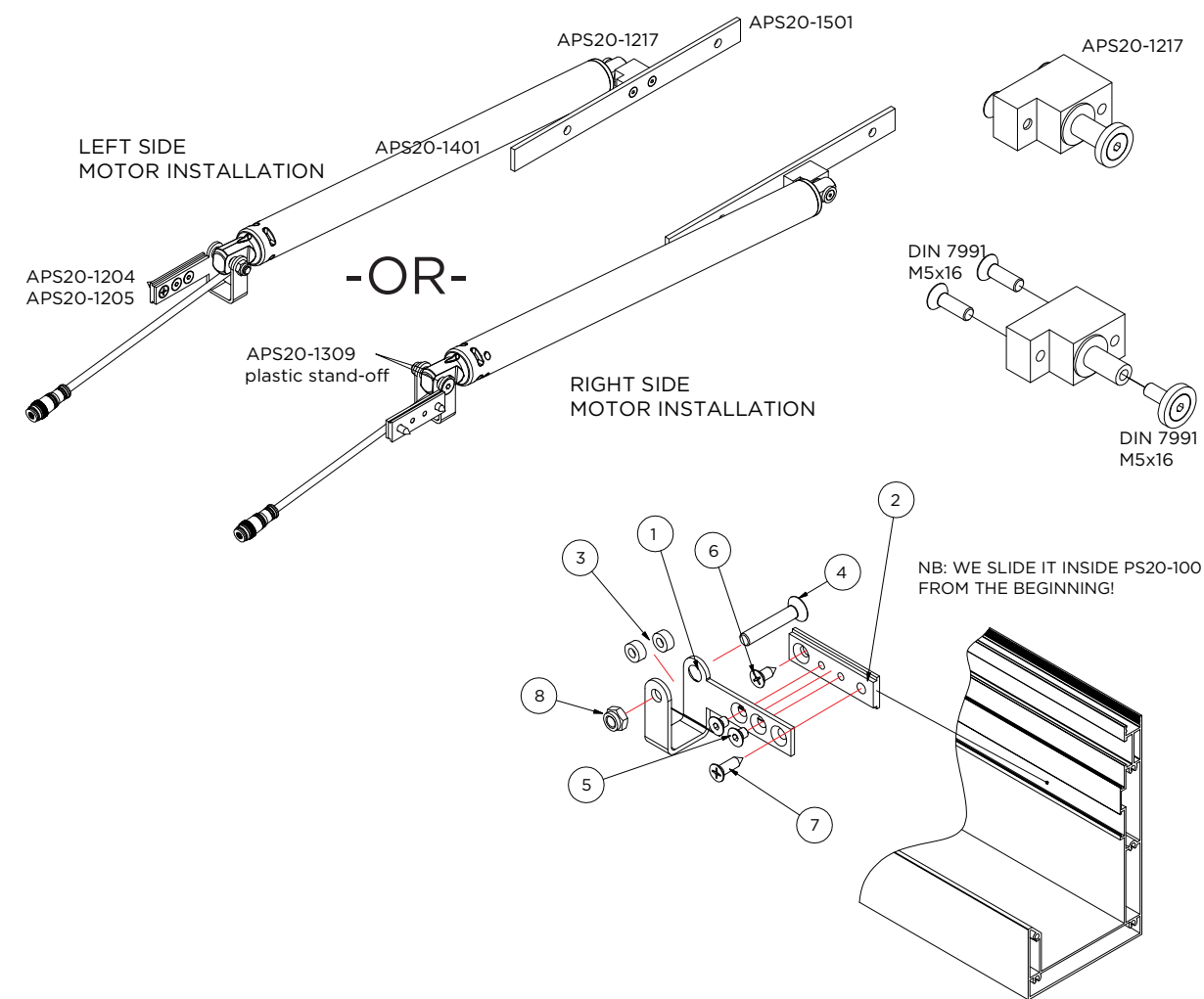
FIXING LOUVERS' GUIDERAIL ONTO TRANSOM PS20-100  
ΠΡΟΣΔΕΣΗ ΟΔΗΓΟΥ ΠΕΡΣΙΔΩΝ ΣΤΗΝ ΤΡΑΒΕΡΣΑ PS20-100



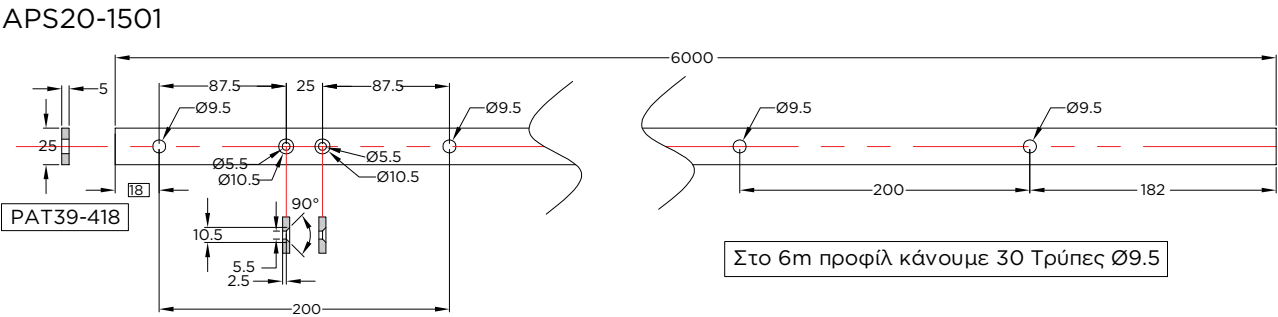
ΣΥΝΔΕΣΗ MOTER-01  
MOTOR FIXATION-01



ΣΥΝΔΕΣΗ MOTER-02  
MOTOR FIXATION-02



| PARTS LIST |     |                    |                                            |                   |
|------------|-----|--------------------|--------------------------------------------|-------------------|
| ITEM       | QTY | PAR NUMBER         | DESCRIPTION                                | MATERIAL          |
| 1          | 1   | APS20-1204         | MOUNTING BRACKET-01                        | STAINLESS STEEL   |
| 2          | 1   | APS20-1205         | MOUNTING BRACKET-02                        | ALUMINUM 6063-T66 |
| 3          | 2   | APS20-1309         | Piston Stand-Off                           | BRASS             |
| 4          | 1   | DIN 7991 - M8x45   | Hexagon socket countersunk head cap screws | STAINLESS STEEL   |
| 5          | 2   | DIN 7991 - M6x8    | Hexagon socket countersunk head cap        | STAINLESS STEEL   |
| 6          | 1   | DIN 7982-C -6.3x16 | SheetMetal Screw Countersunk               | STAINLESS STEEL   |
| 7          | 1   | DIN 7982-C -6.3x22 | SheetMetal Screw Countersunk               | STAINLESS STEEL   |
| 8          | 1   | DIN 985-M8         | Hex Lock Nut                               | STAINLESS STEEL   |



ΜΗΧΑΝΙΚΑ ΕΞΑΡΤΗΜΑΤΑ

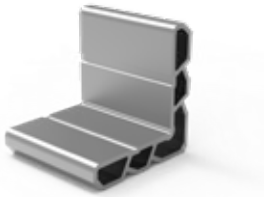
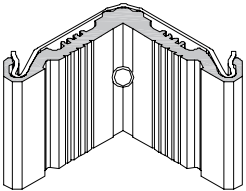
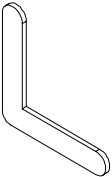
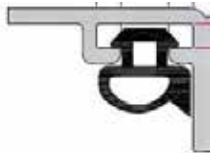
ΒΙΟΚΛΙΜΑΤΙΚΗΣ ΠΕΡΓΚΟΛΑΣ

MECHANICAL ACCESSORIES

OF BIO-CLIMATE PERGOLA

ΕΞΑΡΤΗΜΑΤΑ / ACCESSORIES

| ΣΧΕΔΙΟ / DRAWING                                                                      | ΚΩΔΙΚΟΣ / CODE | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                                                            |
|---------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|
|    | APS20-1204 UL  | ΜΠΡΑΚΕΤΟ ΜΟΤΕΡ ΑΡΙΣΤΕΡΟ<br>MOTOR BRACKET LEFT                                      |
|    | APS20-1204 UR  | ΜΠΡΑΚΕΤΟ ΣΤΗΡΙΞΗΣ ΜΟΤΕΡ ΔΕΞΙ<br>MOTOR SUPPORT BRACKET RIGHT                        |
|   | APS20-1205     | ΜΠΡΑΚΕΤΟ ΣΤΗΡΙΞΗΣ ΜΟΤΕΡ<br>MOTOR SUPPORT BRACKET                                   |
|  | APS20-1211     | ΠΕΛΜΑ ΚΟΛΩΝΑ<br>COLUMN FOOTPLATE                                                   |
|  | APS20-1212     | ΠΕΛΜΑ ΚΟΛΩΝΑ ΡΥΘΜΙΖΟΜΕΝΟ<br>ADJUSTABLE COLUMN FOOTPLATE                            |
|  | APS20-1221     | ΣΥΝΔΕΣΜΟΣ ΠΡΟΣΔΕΣΗΣ<br>ΕΝΔΙΑΜΕΣΗΣ ΚΟΛΩΝΑΣ<br>INTERMEDIATE COLUMN FIXATION<br>JOINT |

| ΣΧΕΔΙΟ / DRAWING                                                                    | ΚΩΔΙΚΟΣ / CODE | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                                                                    |
|-------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|
|    | APS20-1213     | ΓΩΝΙΑ ΓΩΝΙΑΣΤΡΑΣ ΤΡΑΒΕΡΣΑΣ<br>TRAVERSE CRIMPING CORNER                                     |
|    | APS20-1214     | ΕΣΩΤΕΡΙΚΗ ΓΩΝΙΑ ΣΥΝΔΕΣΗΣ<br>ΤΡΑΒΕΡΣΑΣ<br>TRAVERSE INTERNAL CORNER<br>CONNECTOR             |
|    | APS20-1218     | ΕΣΩΤΕΡΙΚΗ ΕΥΘΕΙΑ ΣΥΝΔΕΣΗΣ<br>ΤΡΑΒΕΡΣΑΣ<br>TRAVERSE INTERNAL LINEAR<br>CONNECTOR            |
|   | APS20-1219     | ΕΣΩΤΕΡΙΚΗ ΓΩΝΙΑ ΣΥΝΔΕΣΗΣ<br>ΤΡΑΒΕΡΣΑΣ<br>TRAVERSE INTERNAL LINEAR<br>CONNECTOR             |
|  | APS20-1220     | ΕΣΩΤΕΡΙΚΗ ΓΩΝΙΑ ΣΥΝΔΕΣΗΣ<br>ΤΡΑΒΕΡΣΑΣ<br>TRAVERSE INTERNAL LINEAR<br>CONNECTOR             |
|  | A121-007       | ΓΩΝΙΑ ΕΥΘΥΓΡΑΜΜΙΣΗΣ<br>ΥΔΑΤΟΛΕΚΑΝΗΣ ΤΡΑΒΕΡΣΑΣ<br>TRAVERSE DRAINAGE IN-LINE<br>CORNER JOINT |
|  | A140-001       | ΓΩΝΙΑ ΕΥΘΥΓΡΑΜΜΙΣΗΣ 10 MM<br>CORNER ALIGNMENT 10 MM                                        |
|  | A410-019       | ΛΑΣΤΙΚΟ ΣΦΗΝΑ ΠΕΡΣΙΔΑΣ<br>LOUVER GASKET                                                    |

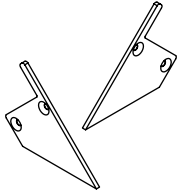
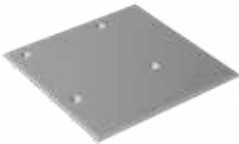
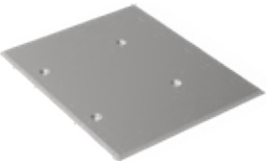
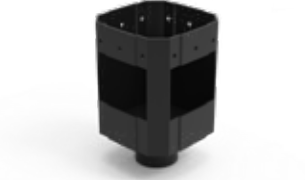
> 48 >> ΕΞΑΡΤΗΜΑΤΑ / ACCESSORIES

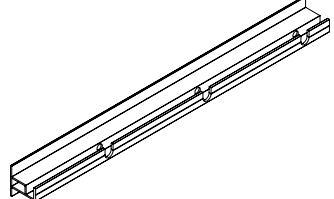
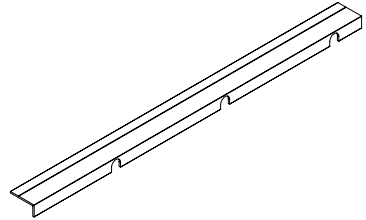
| ΣΧΕΔΙΟ / DRAWING                                                                      | ΚΩΔΙΚΟΣ / CODE | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                                |
|---------------------------------------------------------------------------------------|----------------|--------------------------------------------------------|
|    | F85-417        | ΛΑΣΤΙΚΟ ΑΝΤΙΣΤΗΡΙΞΗΣ<br>COUNTER-BALANCE GASKET         |
|    | F85-418        | ΛΑΣΤΙΚΟ ΑΝΤΙΣΤΗΡΙΞΗΣ<br>COUNTER-BALANCE GASKET         |
|    | F85-477        | ΛΑΣΤΙΚΟ ΑΝΤΙΣΤΗΡΙΞΗΣ<br>COUNTER-BALANCE GASKET         |
|   | F85-478        | ΛΑΣΤΙΚΟ ΑΝΤΙΣΤΗΡΙΞΗΣ<br>COUNTER-BALANCE GASKET         |
|  | E4600-451      | ΒΟΥΡΤΣΑΚΙ ΜΕ ΜΕΤΑΛΙΚΗ ΒΑΣΗ<br>BRUSH WITH METALLIC BASE |
|  | A240-005       | ΚΑΠΑΚΙ ΚΑΛΥΨΗΣ LED<br>LED COVER                        |
|  | APS20-1101     | ΤΑΠΑ ΠΕΡΣΙΔΑΣ<br>LOUVER COVER                          |
|  | APS20-1106     | ΤΑΠΑ ΠΡΟΣΘΕΤΟΥ ΚΟΛΩΝΑΣ<br>COLUMN EXTENSION COVER       |

ΕΞΑΡΤΗΜΑΤΑ / ACCESSORIES << 49 <

| ΣΧΕΔΙΟ / DRAWING                                                                    | ΚΩΔΙΚΟΣ / CODE | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                                               |
|-------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------|
|    | APS20-1107     | ΤΑΠΑ ΣΤΑΘΕΡΗΣ ΠΕΡΣΙΔΑΣ<br>FIXED LOUVER COVER                          |
|    | APS20-1103     | ΤΑΠΑ ΚΟΛΩΝΑΣ<br>COLUMN COVER                                          |
|    | APS20-1104     | ΤΑΠΑ ΚΟΛΩΝΑΣ ΜΕ ΣΥΝΔΕΣΗ ΤΑΥ<br>COLUMN T-PROFILE COVER                 |
|   | APS20-1306     | ΤΑΠΑ ΤΑΥ ΠΛΑΣΤΙΚΗ<br>T-PROFILE PLASTIC COVER                          |
|  | APS20-1301     | ΣΩΛΗΝΑ Φ40<br>Φ40 PLASTIC PIPE                                        |
|  | APS20-1302     | ΓΩΝΙΑ Φ40 ΠΛΑΣΤΙΚΗ<br>PLASTIC CORNER Φ40                              |
|  | APS20-1303     | ΧΩΝΙ ΥΔΡΟΡΟΗΣ ΓΙΑ ΓΩΝΙΑ<br>PLASTIC WATER DRAINAGE CONE<br>FOR CORNER  |
|  | APS20-1304     | ΧΩΝΙ ΥΔΡΟΡΟΗΣ ΓΙΑ ΤΑΥ<br>PLASTIC WATER DRAINAGE CONE<br>FOR T-PROFILE |

| ΣΧΕΔΙΟ / DRAWING                                                                      | ΚΩΔΙΚΟΣ / CODE | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                                         |
|---------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------|
|    | APS20-1305     | ΕΞΩΤΕΡΙΚΟ ΣΙΦΩΝΙ<br>EXTERNAL WATER DRAINAGE<br>SIPHON           |
|    | APS20-1307     | ΟΔΗΓΟΣ ΑΠΟΡΡΟΗΣ ΤΑΥ<br>RAIN WATER GUIDE T-PROFILE               |
|    | APS20-1308     | ΟΔΗΓΟΣ ΑΠΟΡΡΟΗΣ<br>RAIN WATER GUIDE                             |
|   | APS20-1311     | ΣΧΑΡΑ ΕΞΑΕΡΙΣΜΟΥ<br>RAIN WATER GRILLE VENT                      |
|  | APS20-1201     | ΠΕΙΡΟΣ ΣΥΝΔΕΣΗΣ ΛΑΜΑΣ<br>ΚΙΝΗΣΗΣ<br>MOTION BLADE CONNECTION PIN |
|  | APS20-1223     | ΠΕΙΡΟΣ ΠΕΡΙΣΤΡΟΦΗΣ ΠΕΡΣΙΔΩΝ<br>PIN FOR LOUVER ROTATION          |
|  | APS20-1224     | ΧΙΤΩΝΙΟ ΠΕΙΡΟΥ ΠΕΡΙΣΤΡΟΦΗΣ<br>PUSH/PIN ROTATION SLEEVE          |

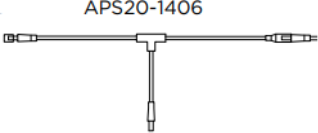
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|-------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------|
|    | APS20-1217     | ΣΥΝΔΕΣΜΟΣ ΚΙΝΗΣΗΣ<br>MOVEMENT CONNECTOR                                    |
|    | APS20-1309     | ΣΕΤ ΑΠΟΣΤΑΤΙΚΟ ΣΥΝΔΕΣΗΣ<br>MOTEP<br>MOTOR STAND-OFF SET                    |
|    | APS20-1501     | ΛΑΜΑ ΚΙΝΗΣΗΣ<br>MOTION BLADE                                               |
|   | APS20-1516     | ΟΔΗΓΟΣ ΠΕΡΙΣΤΡΟΦΗΣ ΠΕΡΣΙΔΩΝ<br>LOUVERS' ROTATION GUIDE                     |
|  | APS20-1518     | ΟΔΗΓΟΣ ΠΕΡΙΣΤΡΟΦΗΣ ΠΕΡΣΙΔΩΝ<br>LOUVERS' ROTATION GUIDE                     |
|  | APS20-1517     | ΟΔΗΓΟΣ ΠΕΡΙΣΤΡΟΦΗΣ ΠΕΡΣΙΔΩΝ<br>TAY<br>LOUVERS' ROTATION GUIDE<br>T-PROFILE |
|  | APS20-1206     | ΚΡΕΜΑΣΤΡΑ ΤΡΑΒΕΡΣΑΣ<br>TRAVERSE HANGER                                     |

| ΣΧΕΔΙΟ / DRAWING                                                                      | ΚΩΔΙΚΟΣ / CODE     | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                                 |
|---------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------|
|    | APS20-1207         | ΚΡΕΜΑΣΤΡΑ ΚΟΛΩΝΑΣ<br>COLUMN HANGER                      |
|    | APS20-1208         | ΚΡΕΜΑΣΤΡΑ ΤΑΥ - ΚΟΛΩΝΑΣ<br>COLUMN- T-PROFILE HANGER     |
|    | APS20-1209         | ΚΡΕΜΑΣΤΡΑ ΤΑΥ - ΤΡΑΒΕΡΣΑΣ<br>TRAVERSE- T-PROFILE HANGER |
|   | APS20-1210         | ΚΡΕΜΑΣΤΡΑ ΤΑΥ - ΤΡΑΒΕΡΣΑΣ<br>TRAVERSE- T-PROFILE HANGER |
|  | D7981.0000I0100004 | 4,8X25 DIN 7981 INOX                                    |
|  | D7981.0000I0100017 | 4,2X13 DIN 7981 INOX                                    |
|  | D7981.0000I0100018 | 4,2X16 DIN 7981 INOX                                    |

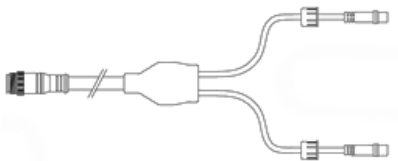
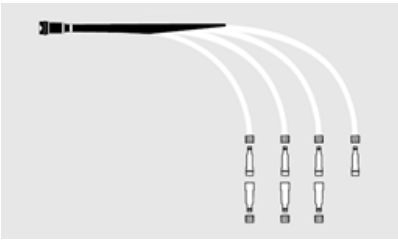
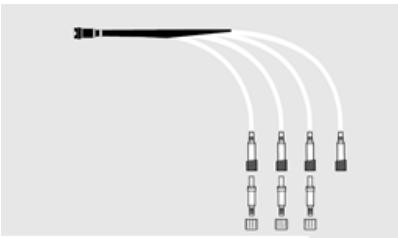
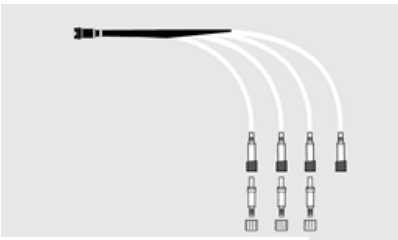
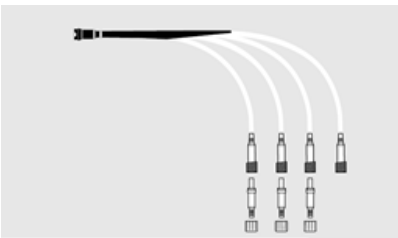
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|-------------------------------------------------------------------------------------|--------------------|-----------------------------------|
|    | D6928.0000I0100004 | 4.8X25 DIN 6928 INOX              |
|    | D7982.0000I0100004 | 4.2X19 DIN 7982 INOX              |
|    | D7982.0000I0100008 | 4.8X19 DIN 7982 INOX              |
|   | D7982.0000I0100013 | 4.8X22 DIN 7982 INOX              |
|  | D7982.0000I0100014 | 4.8X25 DIN 7982 INOX              |
|  | EBM10-120G/2       | COUNTERSUNK CONCRETE SCREWS       |
|  | EBM12-110G/2       | HEX CONCRETE SCREWS WALL MOUNTING |

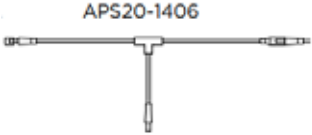
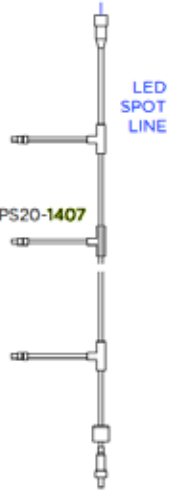
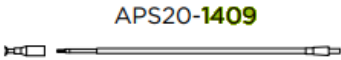
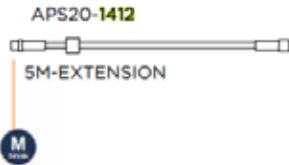
## ΗΛΕΚΤΡΙΚΑ ΕΞΑΡΤΗΜΑΤΑ ΒΙΟΚΛΙΜΑΤΙΚΗΣ ΠΕΡΓΚΟΛΑΣ ELECTRICAL ACCESSORIES OF BIOCLIMATE PERGOLA

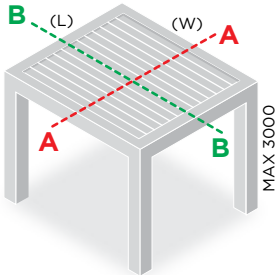
| ΣΧΕΔΙΟ / DRAWING                                                                      | ΚΩΔΙΚΟΣ / CODE | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                              |
|---------------------------------------------------------------------------------------|----------------|------------------------------------------------------|
|    | APS20-1401     | ΜΟΤΕΡ ΓΡΑΜΜΙΚΟ<br>LINEAR MOTOR                       |
|   | APS20-1402     | ΜΟΝΑΔΑ ΛΕΙΤΟΥΡΓΙΑΣ ΜΟΤΕΡ<br>MCU (MOTOR CONTROL UNIT) |
|  | APS20-1403     | ΤΗΛΕΧΕΙΡΙΣΤΗΡΙΟ<br>REMOTE CONTROL                    |
|  | APS20-1411     | ΤΡΟΦΟΔΟΤΙΚΟ ΛΕΙΤΟΥΡΓΙΑΣ<br>PSU (POWER SUPPLY UNIT)   |
|  | APS20-1405     | ΣΠΟΤΑΚΙΑ LED<br>LED SPOTS                            |

| ΣΧΕΔΙΟ / DRAWING                                                                    | ΚΩΔΙΚΟΣ / CODE | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                                                         |
|-------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------|
|    | APS20-1406     | ΔΙΑΚΛΑΔΩΤΗΡΑΣ<br>T-CONNECTOR                                                    |
|    | APS20-1404     | ΠΟΛΥΛΕΙΤΟΥΡΓΙΚΟΣ ΑΙΣΘΗΤΗΡΑΣ ΚΑΙΡΟΥ<br>MULTISENSOR WEATHER UNIT                  |
|    | APS20-1418     | ΜΟΝΑΔΑ ΕΛΕΓΧΟΥ SOMFY ΤΑΗΟΜΑ<br>CONTROL UNIT SOMFY ΤΑΗΟΜΑ                        |
|   | APS20-1419     | ΜΟΝΑΔΑ ΛΕΙΤΟΥΡΓΙΑΣ 2 ΜΟΤΕΡ 240W<br>MCU (MOTOR CONTROL UNIT)FOR 2<br>MOTORS 240W |
|  | APS20-1420     | ΜΟΝΑΔΑ ΕΛΕΓΧΟΥ LED 100W<br>CONTROL UNIT LED 100W                                |
|  | APS20-1421     | ΜΟΝΑΔΑ ΕΛΕΓΧΟΥ LED 180W<br>CONTROL UNIT LED 180W                                |
|  | APS20-1430     | ΚΑΛΩΔΙΟ RGB LED<br>RGB-LED CABLE                                                |

| ΣΧΕΔΙΟ / DRAWING                                                                      | ΚΩΔΙΚΟΣ / CODE | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                                                                 |
|---------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------|
|    | APS20-1431     | LED 15W/M 24V 4000K IP20 D8120                                                          |
|    | APS20-1433     | ΤΗΛΕΧΕΙΡΙΣΤΗΡΙΟ<br>REMOTE CONTROL                                                       |
|   | APS20-1434     | ΤΗΛΕΧΕΙΡΙΣΤΗΡΙΟ<br>REMOTE CONTROL                                                       |
|  | APS20-1435     | ΤΗΛΕΧΕΙΡΙΣΤΗΡΙΟ ΜΕ ΟΘΟΝΗ ΑΦΗΣ<br>REMOTE / TOUCH CONTROL                                 |
|                                                                                       | APS20-1436     | ΠΡΙΖΑ 230V ΜΕ ΠΡΟΣΤΑΤΕΥΤΙΚΟ ΚΑΠΑΚΙ<br>SOCKET 230V WITH PROTECTIVE CAP                   |
|                                                                                       | APS20-1437     | ΠΡΙΖΑ ΜΕ 2 USB ΘΥΡΕΣ<br>SOCKET WITH 2 USB PORTS                                         |
|                                                                                       | APS20-1439     | ΣΙΛΙΚΟΝΟΥΧΟ ΠΡΟΦΙΛ RGB 5,02M + 2<br>CONNECT<br>SILICON PROFILE RGB 5,02M + 2<br>CONNECT |
|  | APS20-1416     | ΚΑΛΩΔΙΟ RGB LED ΤΑΙΝΙΑ<br>RGB-LED CABLE                                                 |

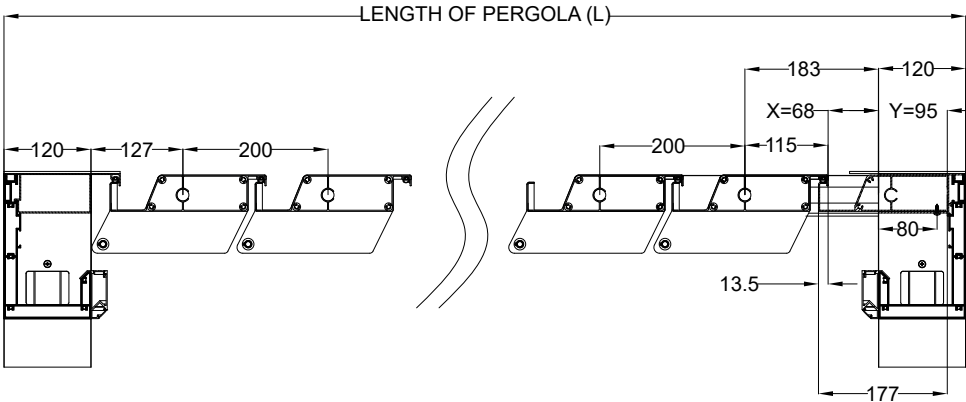
| ΣΧΕΔΙΟ / DRAWING                                                                    | ΚΩΔΙΚΟΣ / CODE | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                                                                                                     |
|-------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|
|    | APS20-1451     | ΚΑΛΩΔΙΟ ΓΙΑ ΣΥΝΔΕΣΗ 2 ΜΟΤΕΡ ΣΤΟ ΙΟΑΛΛ<br>CONNECTION CABLE FOR 2 MOTORS                                                      |
|    | APS20-1452     | ΚΑΛΩΔΙΟ ΠΡΟΕΚΤΑΣΗΣ ΜΕ RGB 5M IP65<br>EXTENSION CABLE 5M MALE+FEMALE IP65 RGB                                                |
|   | APS20-1453     | ΚΑΛΩΔΙΟ ΣΥΝΔΕΣΗΣ ΙΟΑΛΛ ΜΕ WHITE LED (4 ΕΞΟΔΟΙ), ΠΑΡΟΜΟΙΟ ΜΕ APS20-1416<br>CABLE FOR WHITE LED - 4PIN, SIMILAR TO APS20-1416 |
|  | APS20-1410     | ΠΡΟΕΚΤΑΣΗ ΚΑΛΩΔΙΟΥ RGB 7M<br>CABLE EXTENSION RGB 7M                                                                         |
|  | APS20-1454     | ΠΡΟΕΚΤΑΣΗ ΚΑΛΩΔΙΟΥ ΓΙΑ LED 5M<br>LED EXTENTION CABLE 5M                                                                     |
|  | APS20-1455     | ΣΠΟΤ ΦΩΤΙΣΜΟΥ ΘΕΡΜΟ ΛΕΥΚΟ<br>LIBRA SHORT WARM IP54 24VDC 2W SPOT WHITE                                                      |

| ΣΧΕΔΙΟ / DRAWING                                                                      | ΚΩΔΙΚΟΣ / CODE | ΠΕΡΙΓΡΑΦΗ / DESCRIPTION                                          |
|---------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------|
|    | APS20-1406     | ΚΑΛΩΔΙΟ CABLE 1600MM<br>F200MM-F200MM MICRO                      |
|    | APS20-1407     | ΚΑΛΩΔΙΟ ΣΥΝΔΕΣΗΣ<br>CONNECTION CABLE                             |
|    | APS20-1409     | ΚΑΛΩΔΙΟ ΕΠΕΚΤΑΣΗΣ ΣΥΝΔΕΣΗΣ LED<br>EXTENSION CONNECTION LED CABLE |
|  | APS20-1412     | ΕΠΕΚΤΑΣΗ ΚΑΛΩΔΙΟΥ ΜΟΤΕΡ 5M<br>MOTOR EXTENTION CABLE 5M           |
|  | APS20-1456     | ΚΑΛΩΔΙΟ - ΣΥΝΔΕΣΜΟΣ ΓΙΑ ΤΑΙΝΙΑ<br>WHITE LED CABLE                |
|  | APS20-1457     | ΚΑΛΩΔΙΟ - ΣΥΝΔΕΣΜΟΣ ΓΙΑ ΤΑΙΝΙΑ<br>RGB LED CABLE                  |



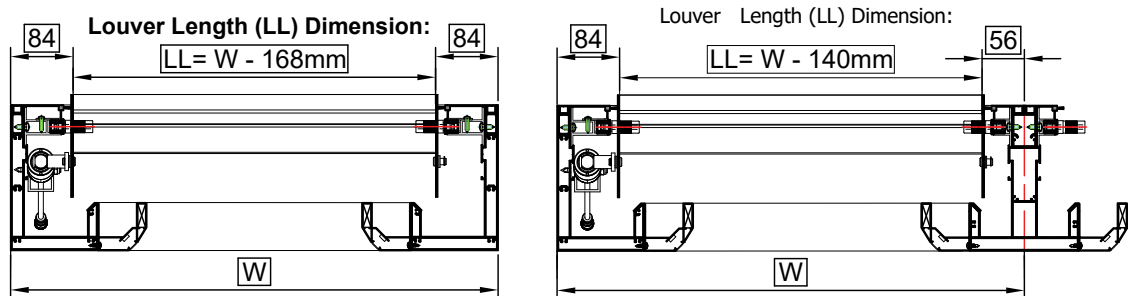
ΜΕΤΡΑ ΚΟΠΗΣ /  
CUTTING CALCULATIONS

SECTION VIEW A-A

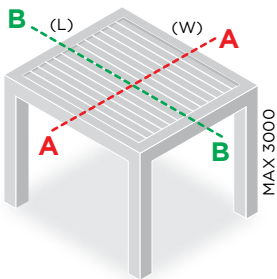


| A/A | LENGTH OF PERGOLA (mm) | QUANTITY OF LOUVERS | LOUVER SPACING (mm) | LENGTH OF END FIXED LOUVER (mm) | DEAD DISTANCE POST - LAST LOUVER (mm) |
|-----|------------------------|---------------------|---------------------|---------------------------------|---------------------------------------|
| 1   | 1550                   | 6+1 fixed           | 200                 | 177                             | 68                                    |
| 2   | 1750                   | 7+1                 | 200                 | 177                             | 68                                    |
| 3   | 1950                   | 8+1                 | 200                 | 177                             | 68                                    |
| 4   | 2150                   | 9+1                 | 200                 | 177                             | 68                                    |
| 5   | 2350                   | 10+1                | 200                 | 177                             | 68                                    |
| 6   | 2550                   | 11+1                | 200                 | 177                             | 68                                    |
| 7   | 2750                   | 12+1                | 200                 | 177                             | 68                                    |
| 8   | 2950                   | 13+1                | 200                 | 177                             | 68                                    |
| 9   | 3150                   | 14+1                | 200                 | 177                             | 68                                    |
| 10  | 3350                   | 15+1                | 200                 | 177                             | 68                                    |
| 11  | 3550                   | 16+1                | 200                 | 177                             | 68                                    |
| 12  | 3750                   | 17+1                | 200                 | 177                             | 68                                    |
| 13  | 3950                   | 18+1                | 200                 | 177                             | 68                                    |
| 14  | 4150                   | 19+1                | 200                 | 177                             | 68                                    |
| 15  | 4350                   | 20+1                | 200                 | 177                             | 68                                    |
| 16  | 4550                   | 21+1                | 200                 | 177                             | 68                                    |
| 17  | 4750                   | 22+1                | 200                 | 177                             | 68                                    |
| 18  | 4950                   | 23+1                | 200                 | 177                             | 68                                    |
| 19  | 5150                   | 24+1                | 200                 | 177                             | 68                                    |
| 20  | 5350                   | 25+1                | 200                 | 177                             | 68                                    |
| 21  | 5550                   | 26+1                | 200                 | 177                             | 68                                    |
| 22  | 5750                   | 27+1                | 200                 | 177                             | 68                                    |
| 23  | 5950                   | 28+1                | 200                 | 177                             | 68                                    |

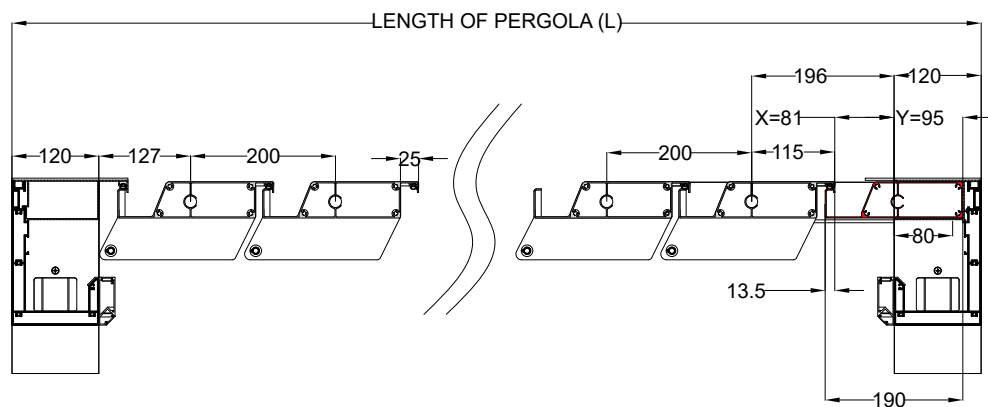
SECTION VIEW B-B



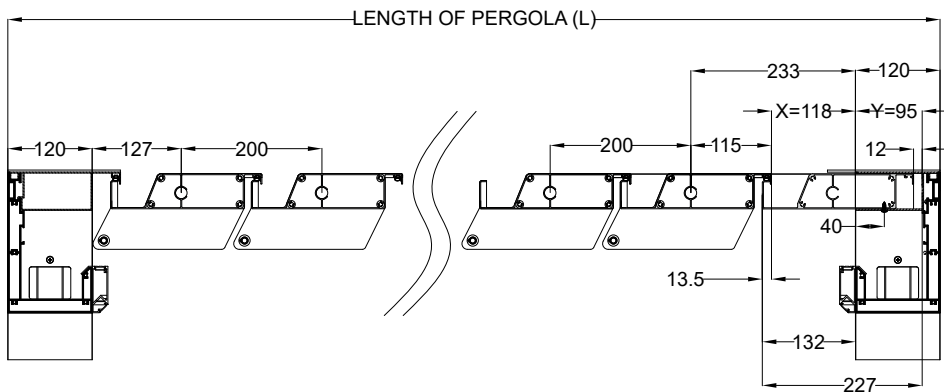
ΔΕΝ ΚΟΒΟΥΜΕ ΤΗΝ ΠΕΡΣΙΑΔΑ  
WE DO NOT CUT THE FIXED  
LOUVER LENGTH



SECTION VIEW A-A



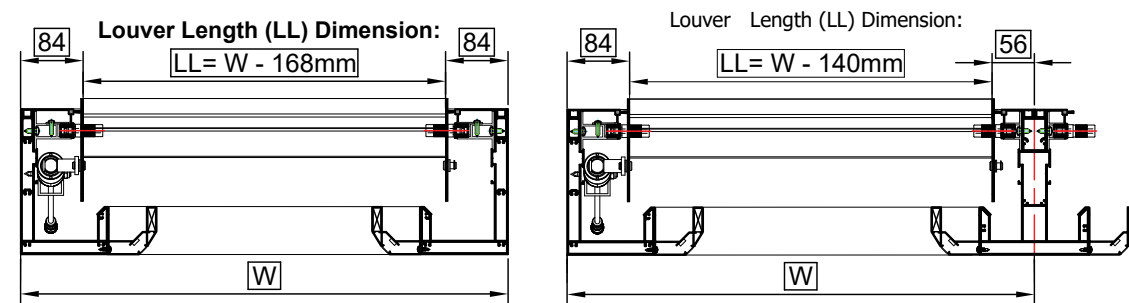
SECTION VIEW A-A



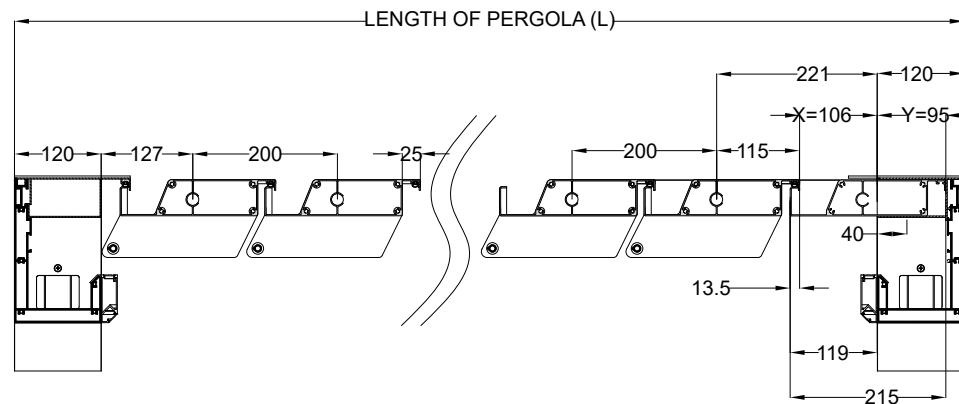
| A/A | LENGTH OF PERGOLA (mm) | QUANTITY OF LOUVERS | LOUVER SPACING (mm) | LENGTH OF END FIXED LOUVER (mm) 215-25=190mm | DEAD DISTANCE POST - LAST LOUVER (mm) |
|-----|------------------------|---------------------|---------------------|----------------------------------------------|---------------------------------------|
| 1   | 1563                   | 6+1 fixed1          | 200                 | 190                                          | 81                                    |
| 2   | 1763                   | 7+1                 | 200                 | 190                                          | 81                                    |
| 3   | 1963                   | 8+1                 | 200                 | 190                                          | 81                                    |
| 4   | 2163                   | 9+1                 | 200                 | 190                                          | 81                                    |
| 5   | 2363                   | 10+1                | 200                 | 190                                          | 81                                    |
| 6   | 2563                   | 11+1                | 200                 | 190                                          | 81                                    |
| 7   | 2763                   | 12+1                | 200                 | 190                                          | 81                                    |
| 8   | 2963                   | 13+1                | 200                 | 190                                          | 81                                    |
| 9   | 3163                   | 14+1                | 200                 | 190                                          | 81                                    |
| 10  | 3363                   | 15+1                | 200                 | 190                                          | 81                                    |
| 11  | 3563                   | 16+1                | 200                 | 190                                          | 81                                    |
| 12  | 3763                   | 17+1                | 200                 | 190                                          | 81                                    |
| 13  | 3963                   | 18+1                | 200                 | 190                                          | 81                                    |
| 14  | 4163                   | 19+1                | 200                 | 190                                          | 81                                    |
| 15  | 4363                   | 20+1                | 200                 | 190                                          | 81                                    |
| 16  | 4563                   | 21+1                | 200                 | 190                                          | 81                                    |
| 17  | 4763                   | 22+1                | 200                 | 190                                          | 81                                    |
| 18  | 4963                   | 23+1                | 200                 | 190                                          | 81                                    |
| 19  | 5163                   | 24+1                | 200                 | 190                                          | 81                                    |
| 20  | 5363                   | 25+1                | 200                 | 190                                          | 81                                    |
| 21  | 5563                   | 26+1                | 200                 | 190                                          | 81                                    |
| 22  | 5763                   | 27+1                | 200                 | 190                                          | 81                                    |
| 23  | 5963                   | 28+1                | 200                 | 190                                          | 81                                    |

| A/A | LENGTH OF PERGOLA (mm) | QUANTITY OF LOUVERS | LOUVER SPACING (mm) | LENGTH OF END FIXED LOUVER (mm) = 215+12mm | DEAD DISTANCE POST - LAST LOUVER (mm) | INSIDE GAP (mm) |
|-----|------------------------|---------------------|---------------------|--------------------------------------------|---------------------------------------|-----------------|
| 1   | 1600                   | 6+1 fixed           | 200                 | 227                                        | 118                                   | 12              |
| 2   | 1800                   | 7+1                 | 200                 | 227                                        | 118                                   | 12              |
| 3   | 2000                   | 8+1                 | 200                 | 227                                        | 118                                   | 12              |
| 4   | 2200                   | 9+1                 | 200                 | 227                                        | 118                                   | 12              |
| 5   | 2400                   | 10+1                | 200                 | 227                                        | 118                                   | 12              |
| 6   | 2600                   | 11+1                | 200                 | 227                                        | 118                                   | 12              |
| 7   | 2800                   | 12+1                | 200                 | 227                                        | 118                                   | 12              |
| 8   | 3000                   | 13+1                | 200                 | 227                                        | 118                                   | 12              |
| 9   | 3200                   | 14+1                | 200                 | 227                                        | 118                                   | 12              |
| 10  | 3400                   | 15+1                | 200                 | 227                                        | 118                                   | 12              |
| 11  | 3600                   | 16+1                | 200                 | 227                                        | 118                                   | 12              |
| 12  | 3800                   | 17+1                | 200                 | 227                                        | 118                                   | 12              |
| 13  | 4000                   | 18+1                | 200                 | 227                                        | 118                                   | 12              |
| 14  | 4200                   | 19+1                | 200                 | 227                                        | 118                                   | 12              |
| 15  | 4400                   | 20+1                | 200                 | 227                                        | 118                                   | 12              |
| 16  | 4600                   | 21+1                | 200                 | 227                                        | 118                                   | 12              |
| 17  | 4800                   | 22+1                | 200                 | 227                                        | 118                                   | 12              |
| 18  | 5000                   | 23+1                | 200                 | 227                                        | 118                                   | 12              |
| 19  | 5200                   | 24+1                | 200                 | 227                                        | 118                                   | 12              |
| 20  | 5400                   | 25+1                | 200                 | 227                                        | 118                                   | 12              |
| 21  | 5600                   | 26+1                | 200                 | 227                                        | 118                                   | 12              |
| 22  | 5800                   | 27+1                | 200                 | 227                                        | 118                                   | 12              |
| 23  | 6000                   | 28+1                | 200                 | 227                                        | 118                                   | 12              |

## SECTION VIEW B-B



## SECTION VIEW A-A



**Freedom**  
Bioclimatic  
Pergola

**ALUMINCO**

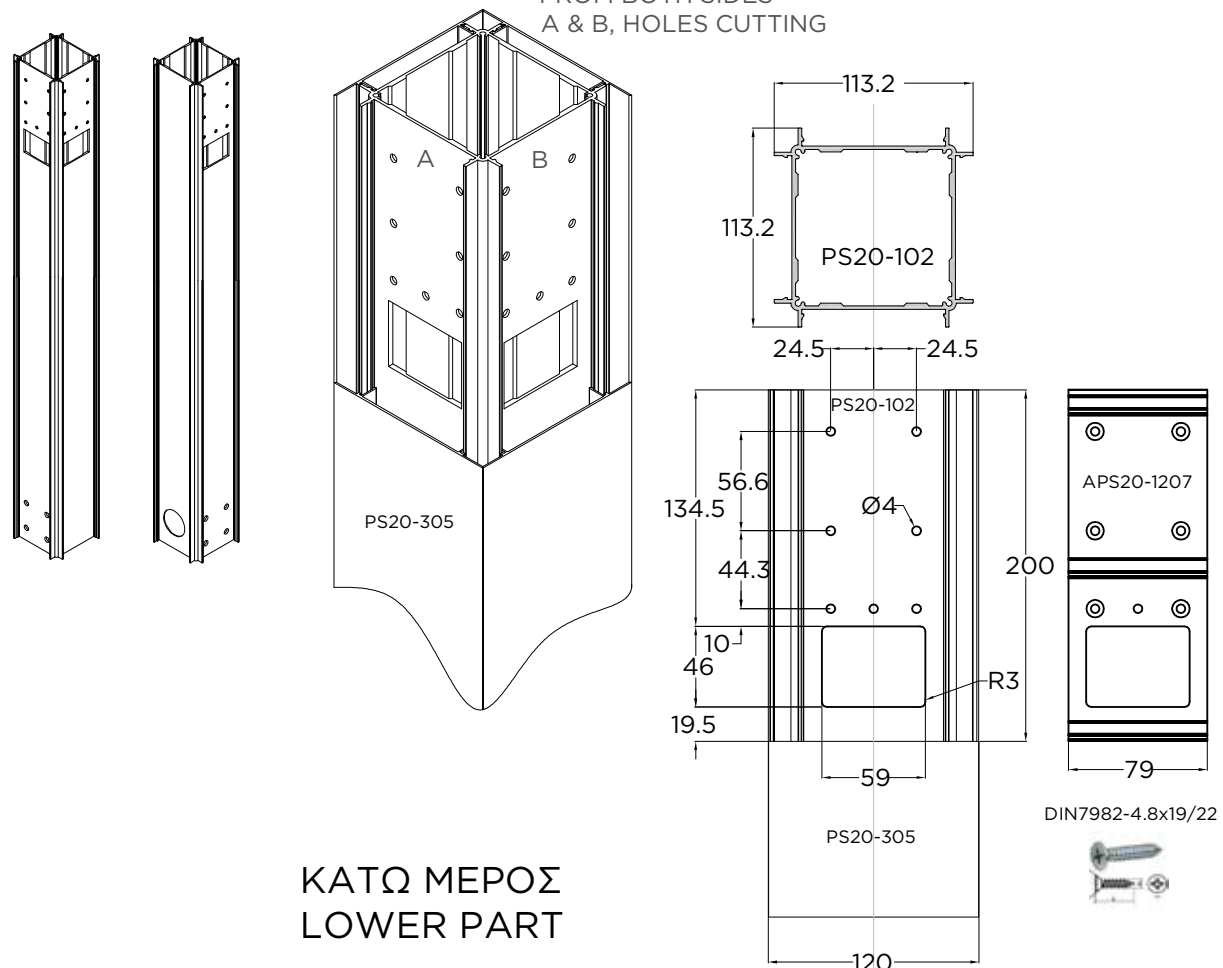
# ΚΑΤΕΡΓΑΣΙΕΣ / FABRICATION MANUAL

| A/A | LENGTH OF PERGOLA (mm) | QUANTITY OF LOUVERS | LOUVER SPACING (mm) | LENGTH OF END FIXED LOUVER (mm) = 215+12 mm | DEAD DISTANCE POST - LAST LOUVER (mm) | INSIDE GAP (mm) |
|-----|------------------------|---------------------|---------------------|---------------------------------------------|---------------------------------------|-----------------|
| 1   | 1588                   | 6+1 fixed           | 200                 | 215                                         | 106                                   | 0               |
| 2   | 1788                   | 7+1                 | 200                 | 215                                         | 106                                   | 0               |
| 3   | 1988                   | 8+1                 | 200                 | 215                                         | 106                                   | 0               |
| 4   | 2188                   | 9+1                 | 200                 | 215                                         | 106                                   | 0               |
| 5   | 2388                   | 10+1                | 200                 | 215                                         | 106                                   | 0               |
| 6   | 2588                   | 11+1                | 200                 | 215                                         | 106                                   | 0               |
| 7   | 2788                   | 12+1                | 200                 | 215                                         | 106                                   | 0               |
| 8   | 2988                   | 13+1                | 200                 | 215                                         | 106                                   | 0               |
| 9   | 3188                   | 14+1                | 200                 | 215                                         | 106                                   | 0               |
| 10  | 3388                   | 15+1                | 200                 | 215                                         | 106                                   | 0               |
| 11  | 3588                   | 16+1                | 200                 | 215                                         | 106                                   | 0               |
| 12  | 3788                   | 17+1                | 200                 | 215                                         | 106                                   | 0               |
| 13  | 3988                   | 18+1                | 200                 | 215                                         | 106                                   | 0               |
| 14  | 4188                   | 19+1                | 200                 | 215                                         | 106                                   | 0               |
| 15  | 4388                   | 20+1                | 200                 | 215                                         | 106                                   | 0               |
| 16  | 4588                   | 21+1                | 200                 | 215                                         | 106                                   | 0               |
| 17  | 4788                   | 22+1                | 200                 | 215                                         | 106                                   | 0               |
| 18  | 4988                   | 23+1                | 200                 | 215                                         | 106                                   | 0               |
| 19  | 5188                   | 24+1                | 200                 | 215                                         | 106                                   | 0               |
| 20  | 5388                   | 25+1                | 200                 | 215                                         | 106                                   | 0               |
| 21  | 5588                   | 26+1                | 200                 | 215                                         | 106                                   | 0               |
| 22  | 5788                   | 27+1                | 200                 | 215                                         | 106                                   | 0               |
| 23  | 5988                   | 28+1                | 200                 | 215                                         | 106                                   | 0               |

ΚΑΤΕΡΓΑΣΙΕΣ ΚΟΠΗΣ ΚΟΛΩΝΑΣ - ΓΩΝΙΑΚΗ  
CORNER POST HOLES CUTTING

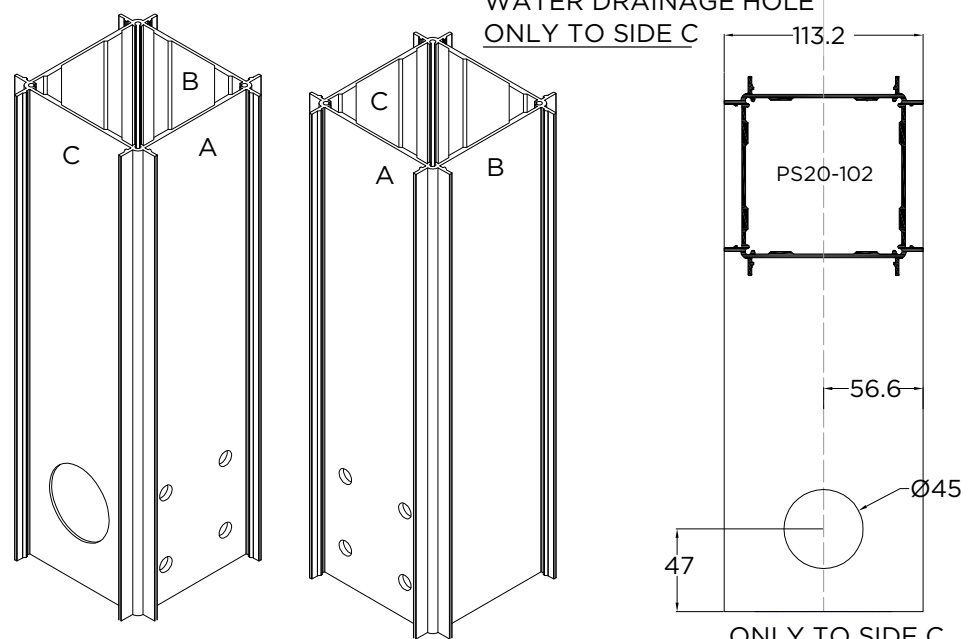
ΠΑΝΩ ΜΕΡΟΣ  
UPPER PART

PS20-102  
FROM BOTH SIDES  
A & B, HOLES CUTTING



KATΩ MEPOΣ  
LOWER PART

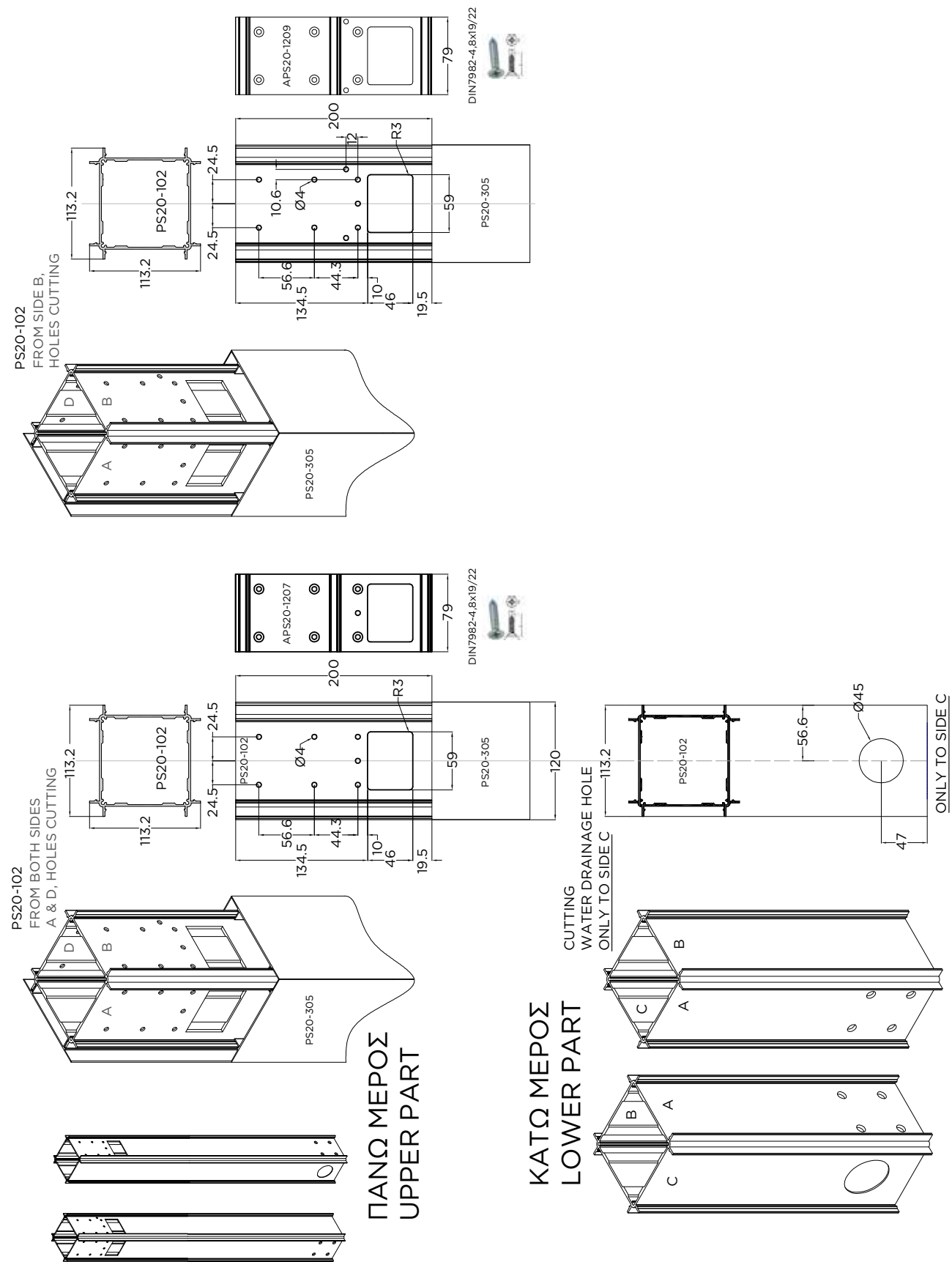
CUTTING  
WATER DRAINAGE HOLE  
ONLY TO SIDE C 113



ONLY TO SIDE C

ΚΑΤΕΓΑΣΙΕΣ ΚΟΠΗΣ ΚΟΛΩΝΑΣ - ΜΕΣΑΙΑ  
INTERMEDIATE POST HOLES CUTTING

PS20-102  
FROM BOTH SIDES  
A & D, HOLES CUTTING

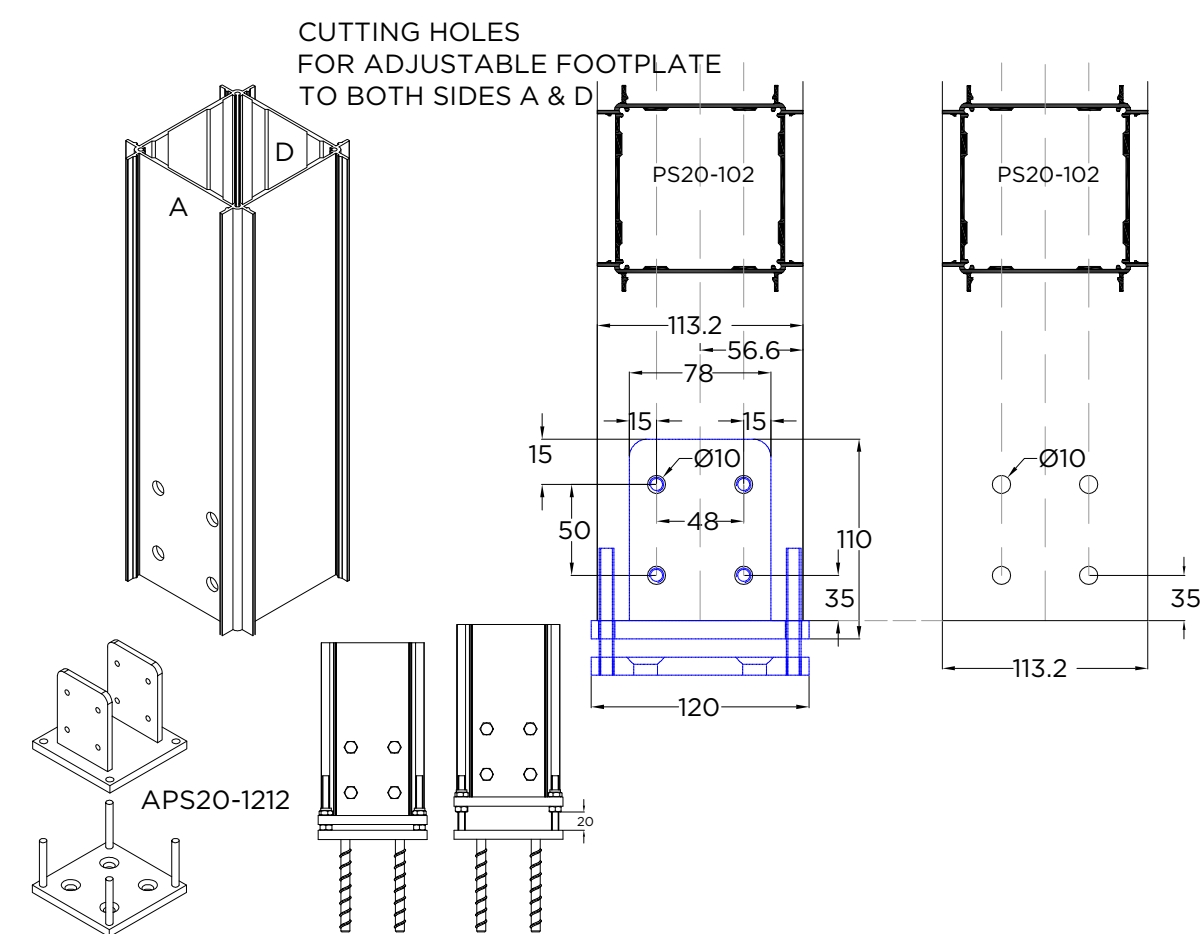
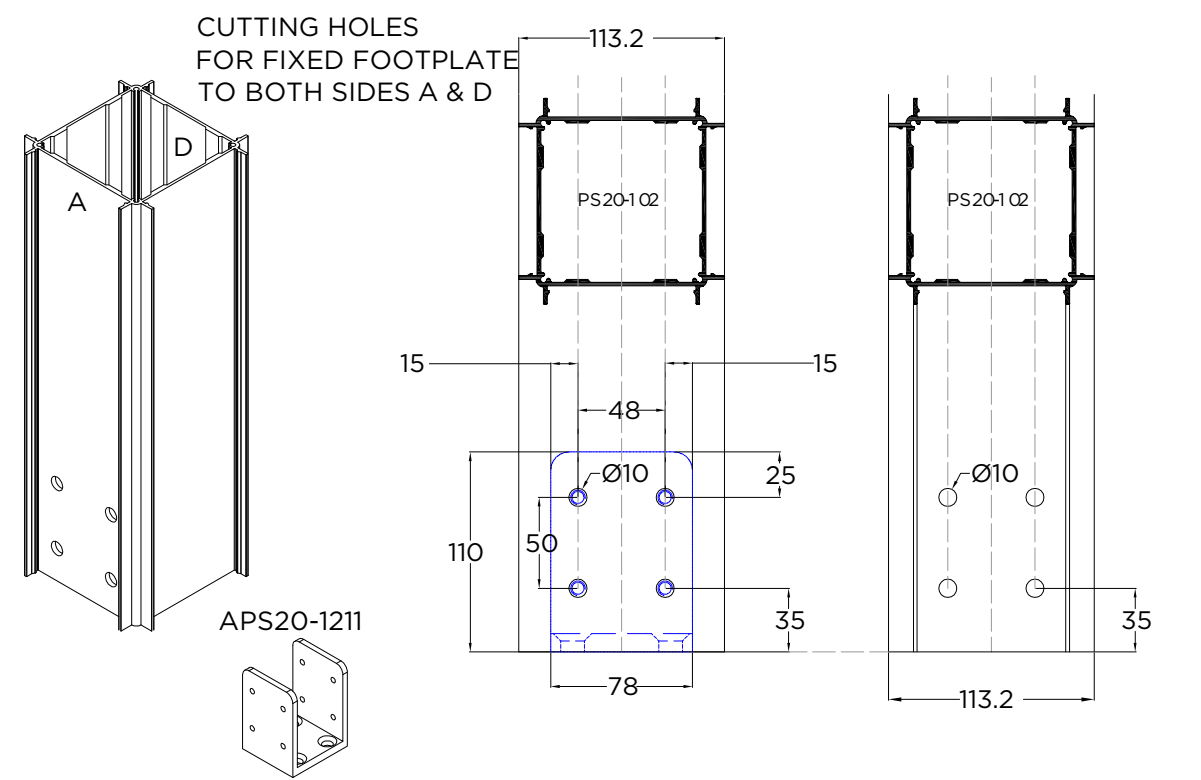
ΠΑΝΩ ΜΕΡΟΣ  
UPPER PART

KATΩ ΜΕΡΟΣ  
LOWER PART

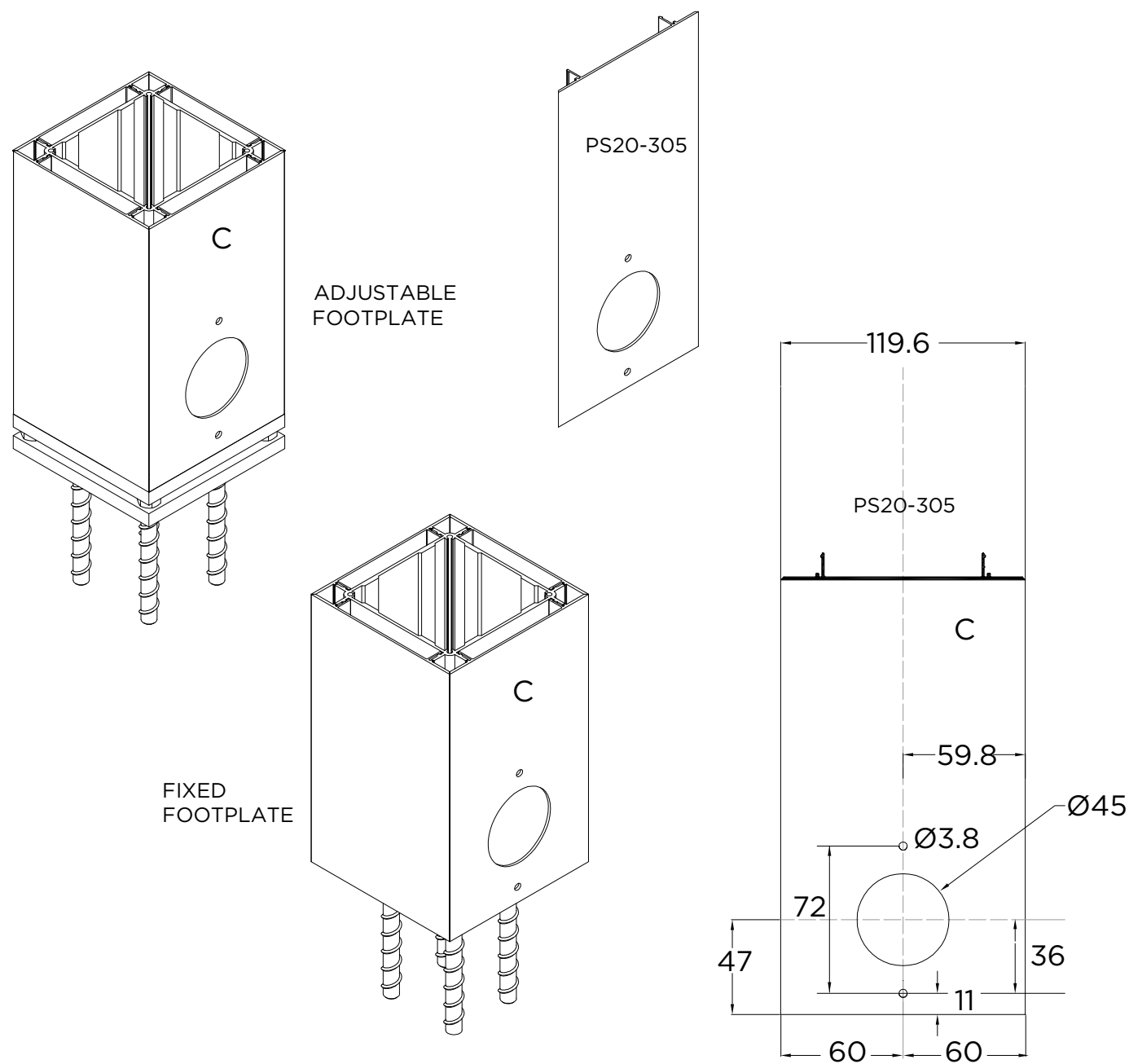
CUTTING  
WATER D  
ONLY TO

Technical drawing of the PS20-102 unit. The drawing shows a rectangular unit with a width of 113.2 and a height of 56.6. A central rectangular area is labeled PS20-102. A circular component with a diameter of Ø45 is shown on the right side, with a dimension of 47 indicating its vertical position from the bottom. The text "ONLY TO SIDE C" is written vertically on the right side of the drawing.

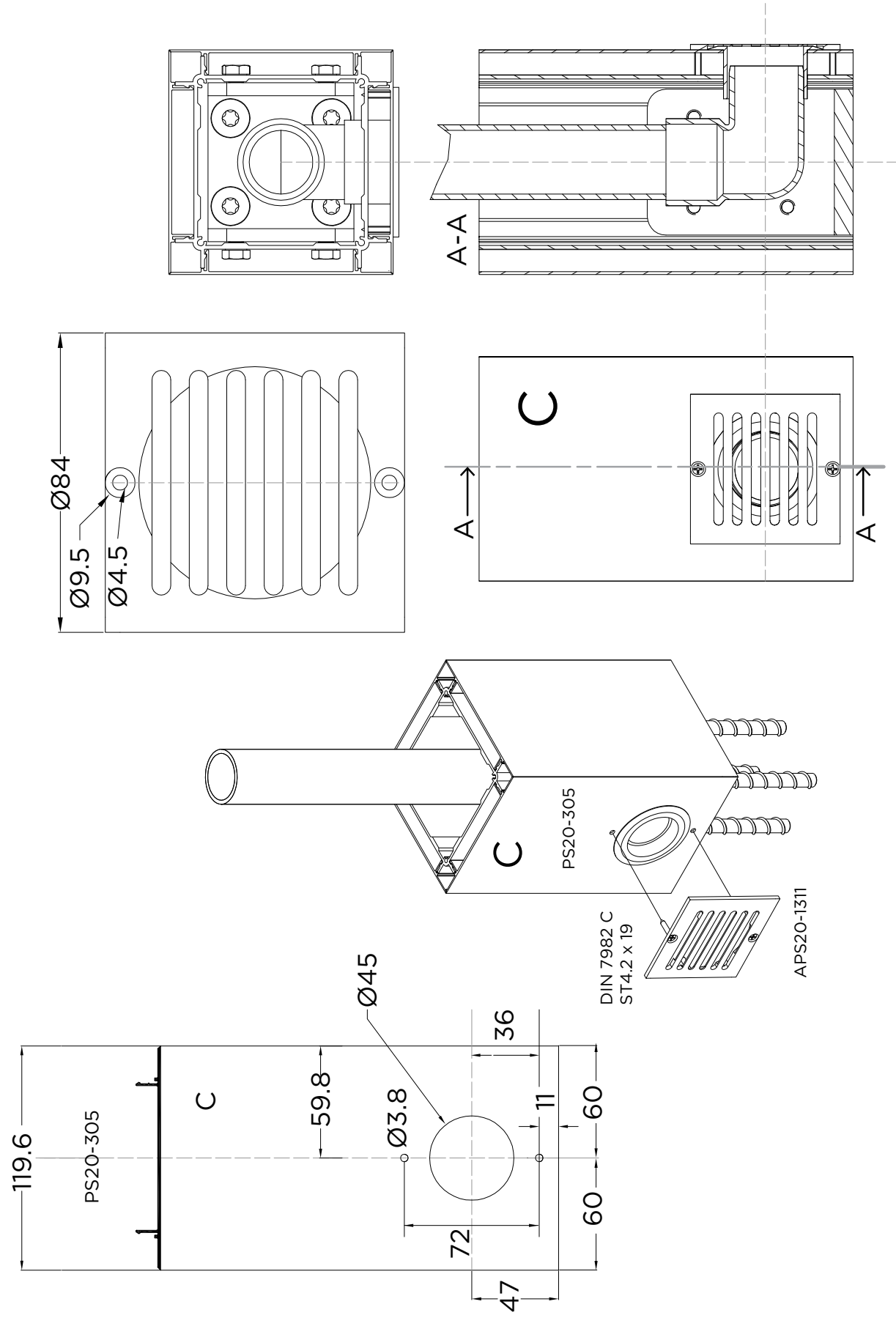
ΚΑΤΕΡΓΑΣΙΕΣ ΠΕΛΜΑΤΩΝ ΚΟΛΩΝΑΣ - ΚΑΤΩ ΜΕΡΟΣ  
POST FOOTPLATE HOLES CUTTING - LOWER PART



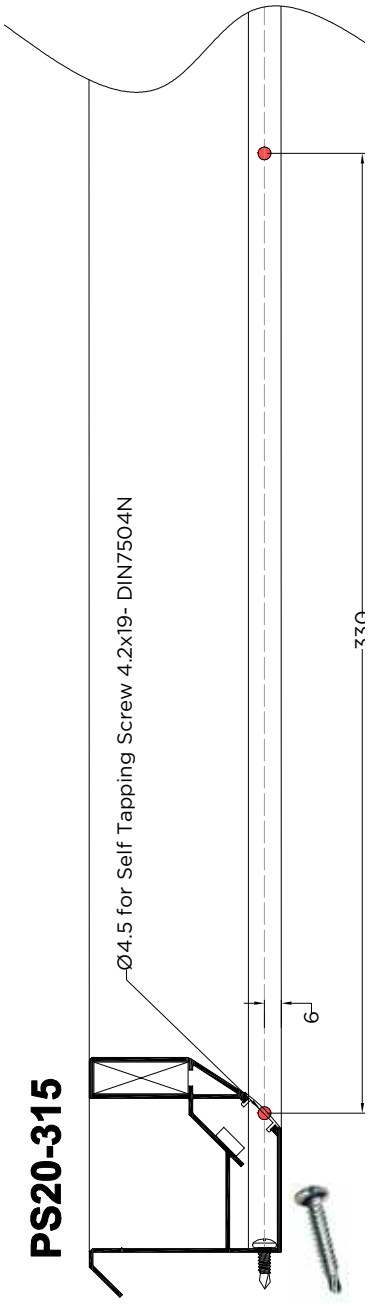
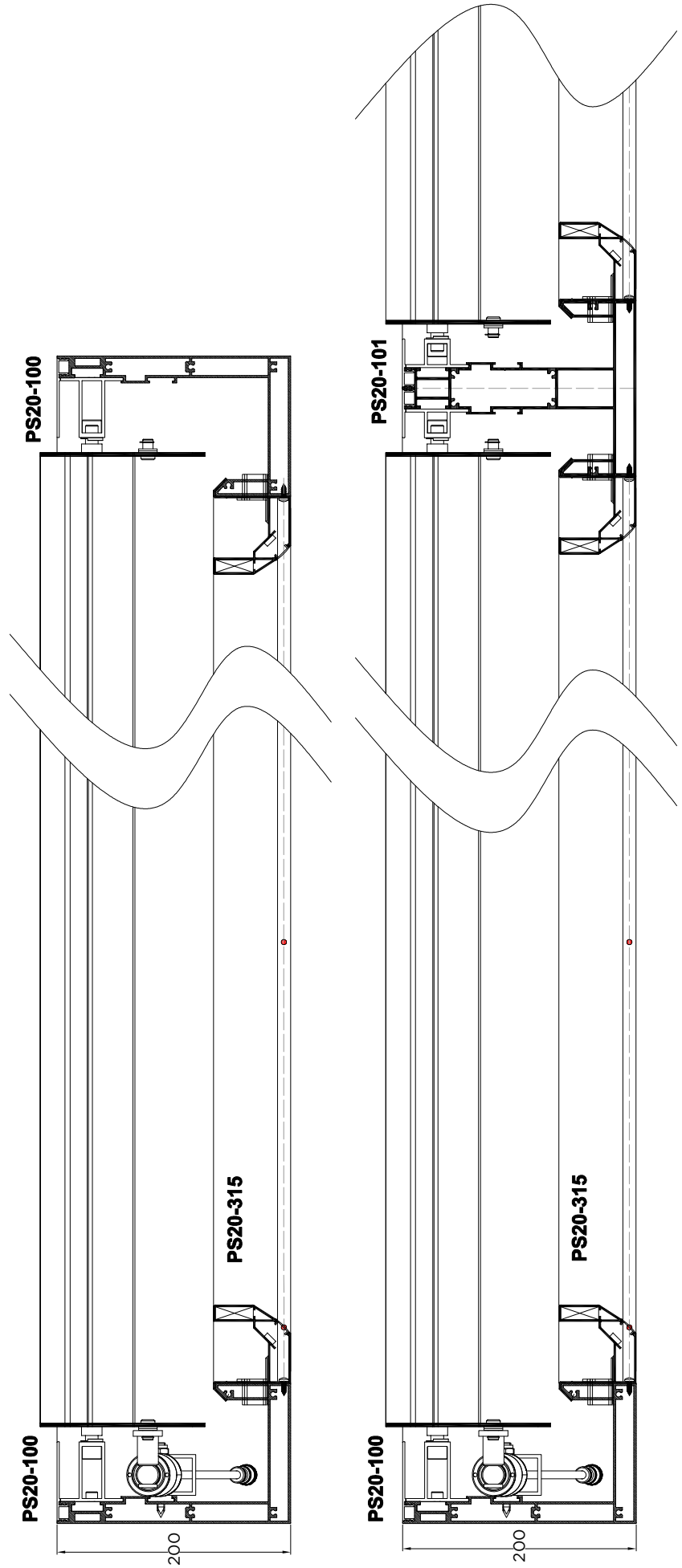
ΚΑΤΕΡΓΑΣΙΕΣ ΚΟΠΗΣ ΚΑΠΑΚΙ ΚΟΛΩΝΑΣ - ΚΑΤΩ ΜΕΡΟΣ  
POST COVER HOLE CUTTING - LOWER PART



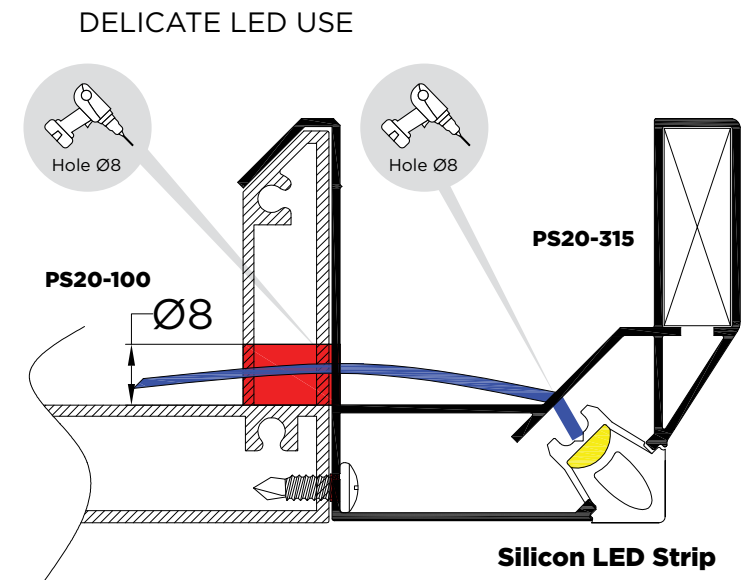
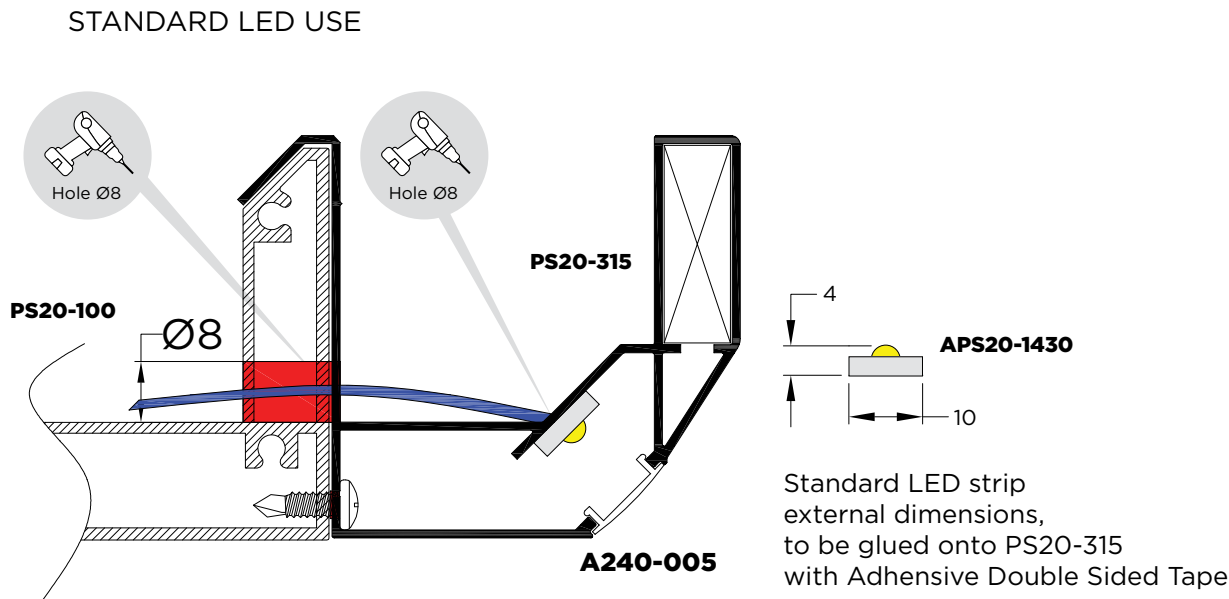
ΣΙΤΑ ΕΞΑΕΡΙΣΜΟΥ APS20-1311  
VENTILATION GRILL APS20-1311



ΚΑΤΕΡΓΑΣΙΕΣ ΤΡΥΠΗΜΑΤΟΣ ΑΝΤΑΠΤΟΡΑ LED\_PS20-304  
DRILL CUTTINGS- LED ADAPTER PROFILE\_PS20-304



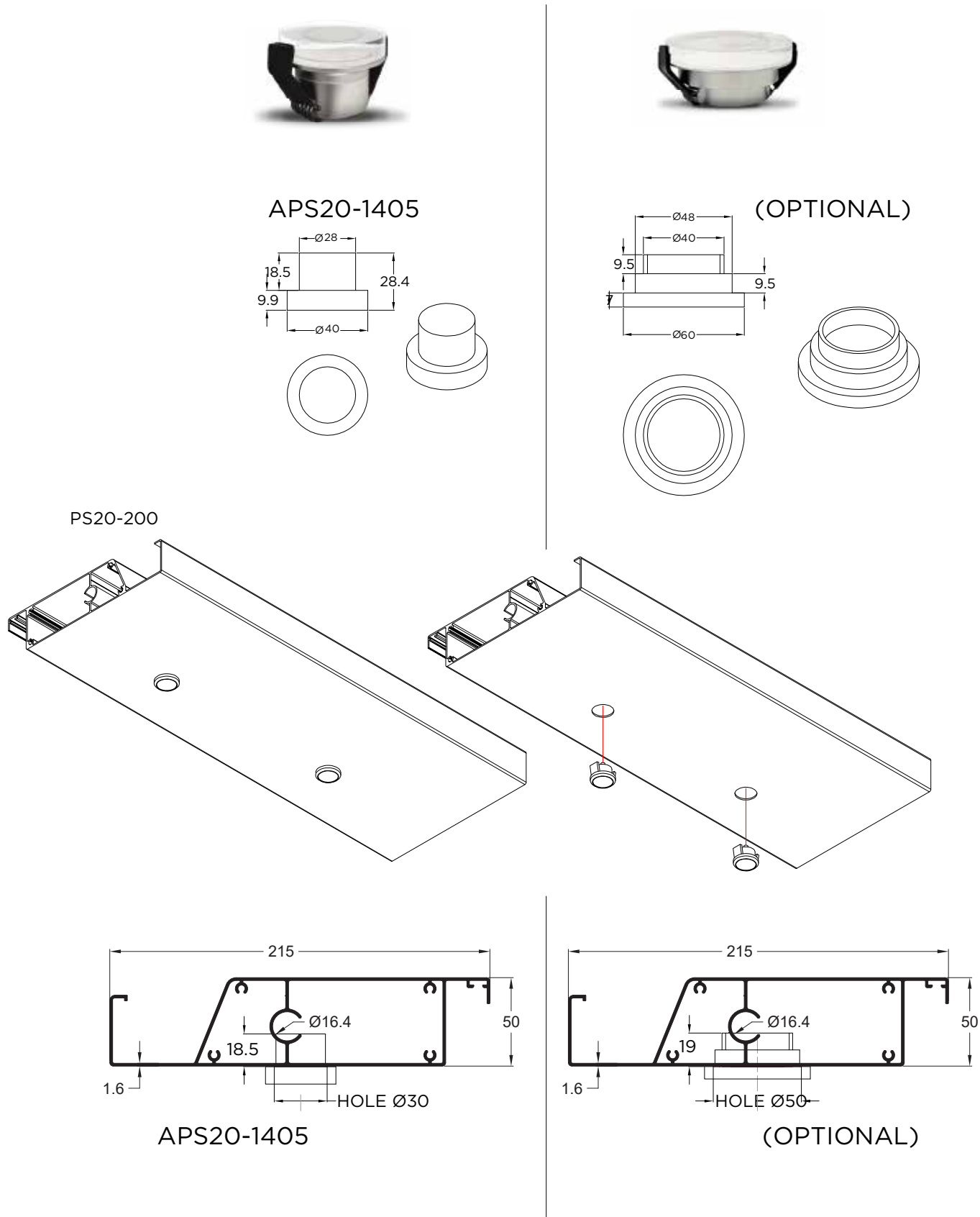
LED - ΤΑΙΝΙΑ ΣΥΝΔΕΣΗ ΜΕ ΠΡΟΦΙΛ PS20-304  
LED STRIP FIXATION ONTO PS20-304

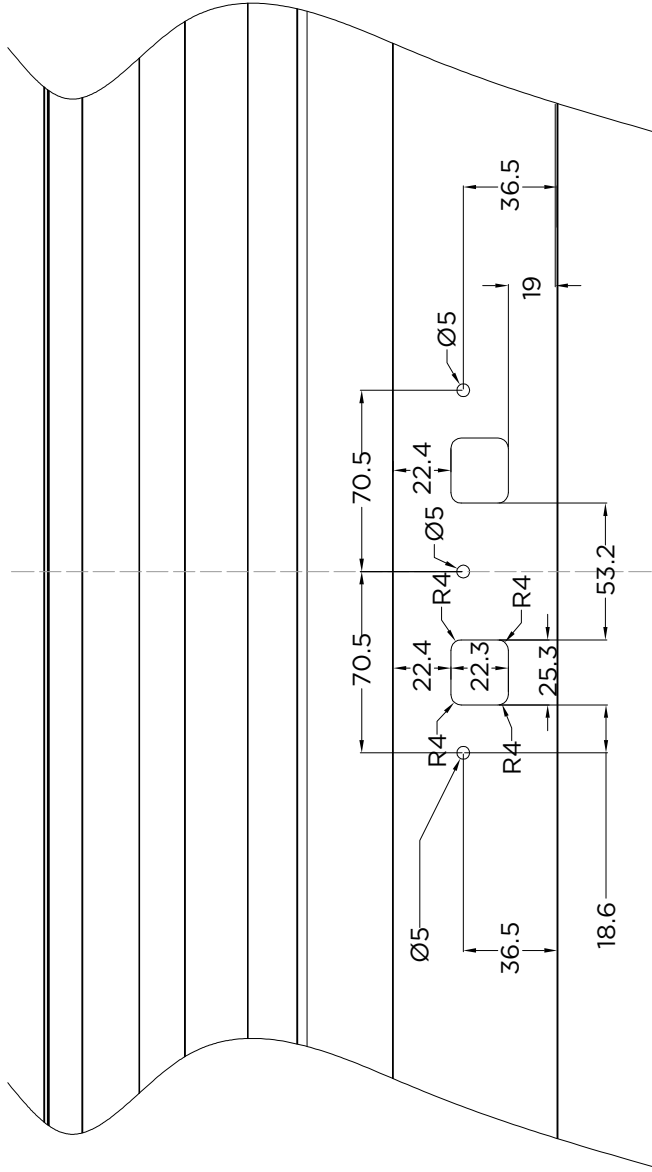
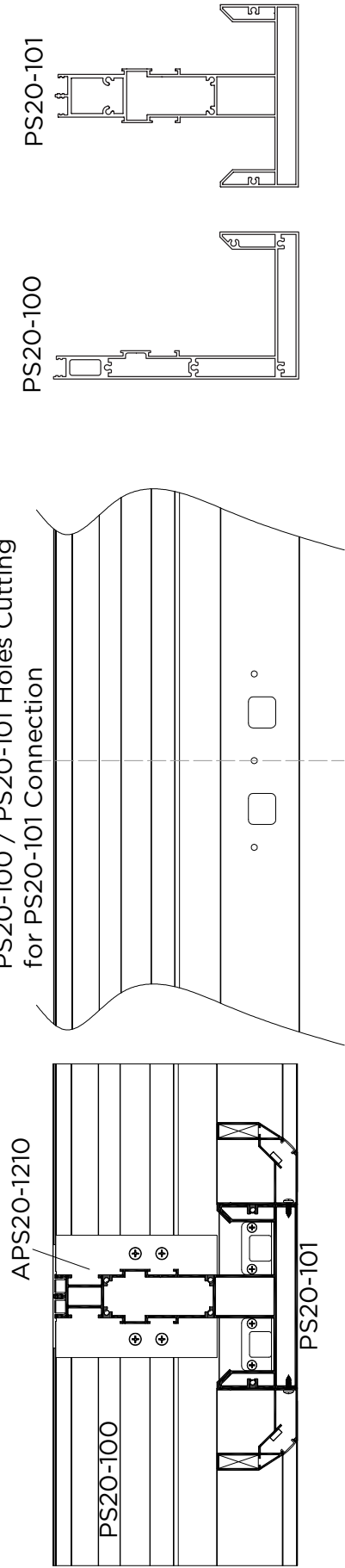


Η χρήση σιλικόνης είναι υποχρεωτική σε όλα τα σημεία της κατασκευής στα οποία έχουμε αρμούς, στοιχεία στήριξης και συνδέσεις εξαρτημάτων μεταξύ τους και από τα οποία υπάρχει πάντα ο κίνδυνος να περάσει το βρόχινο νερό με κατεύθυνση προς το εσωτερικό της πέργολας.

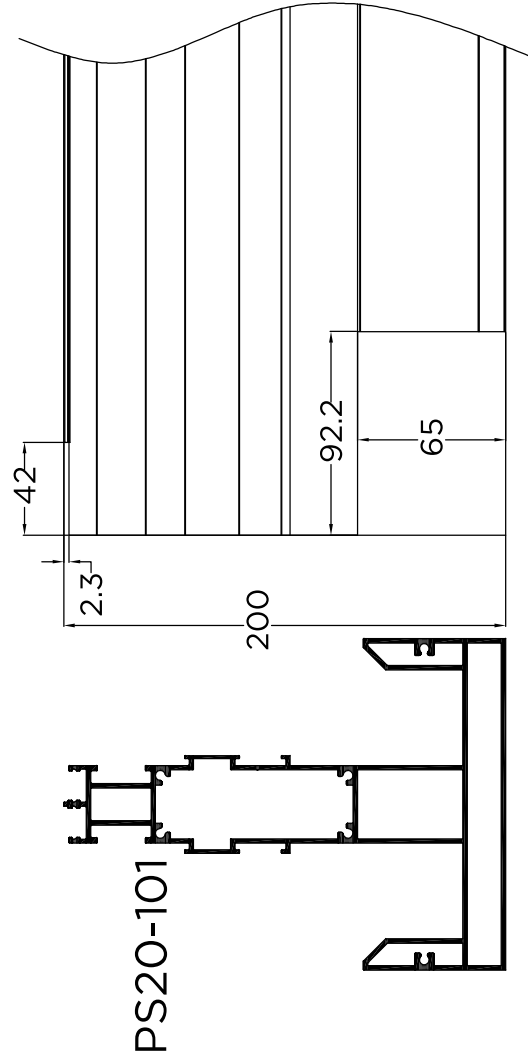
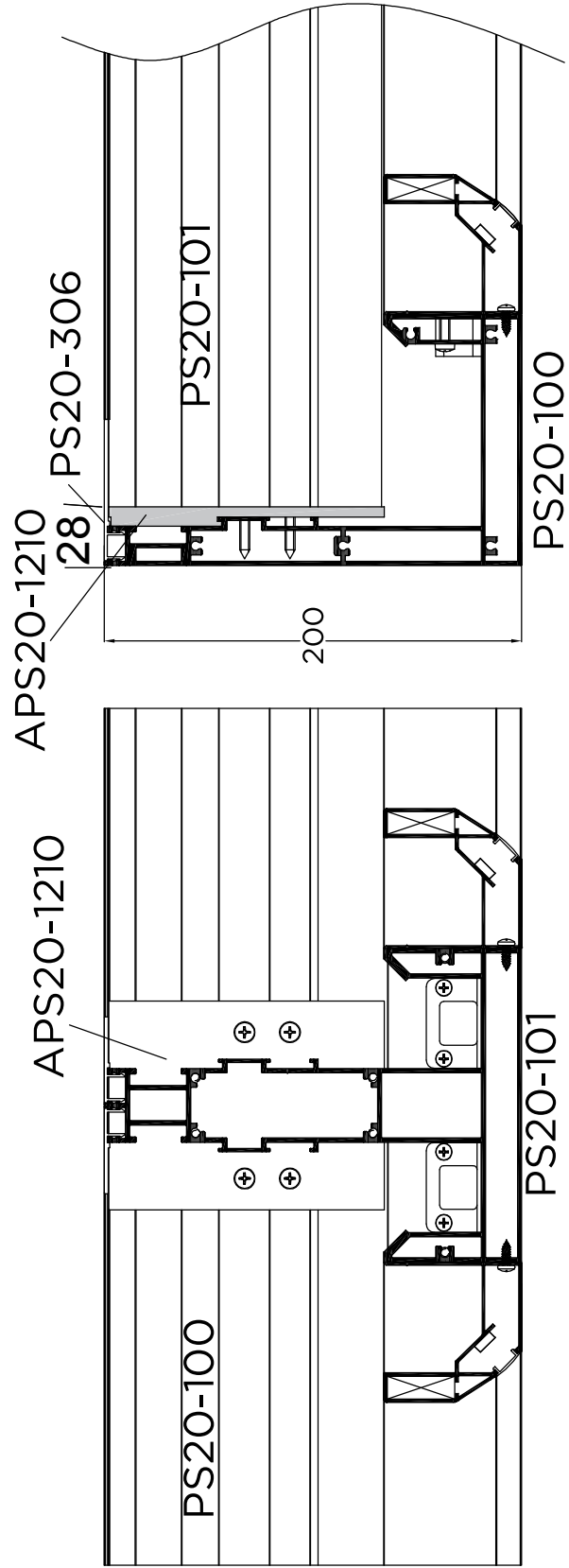
The use of silicone is mandatory in all parts of the construction in which we have joints, support elements and connections of parts between them and through which there is always a risk of rainwater passing towards the inside of the pergola.

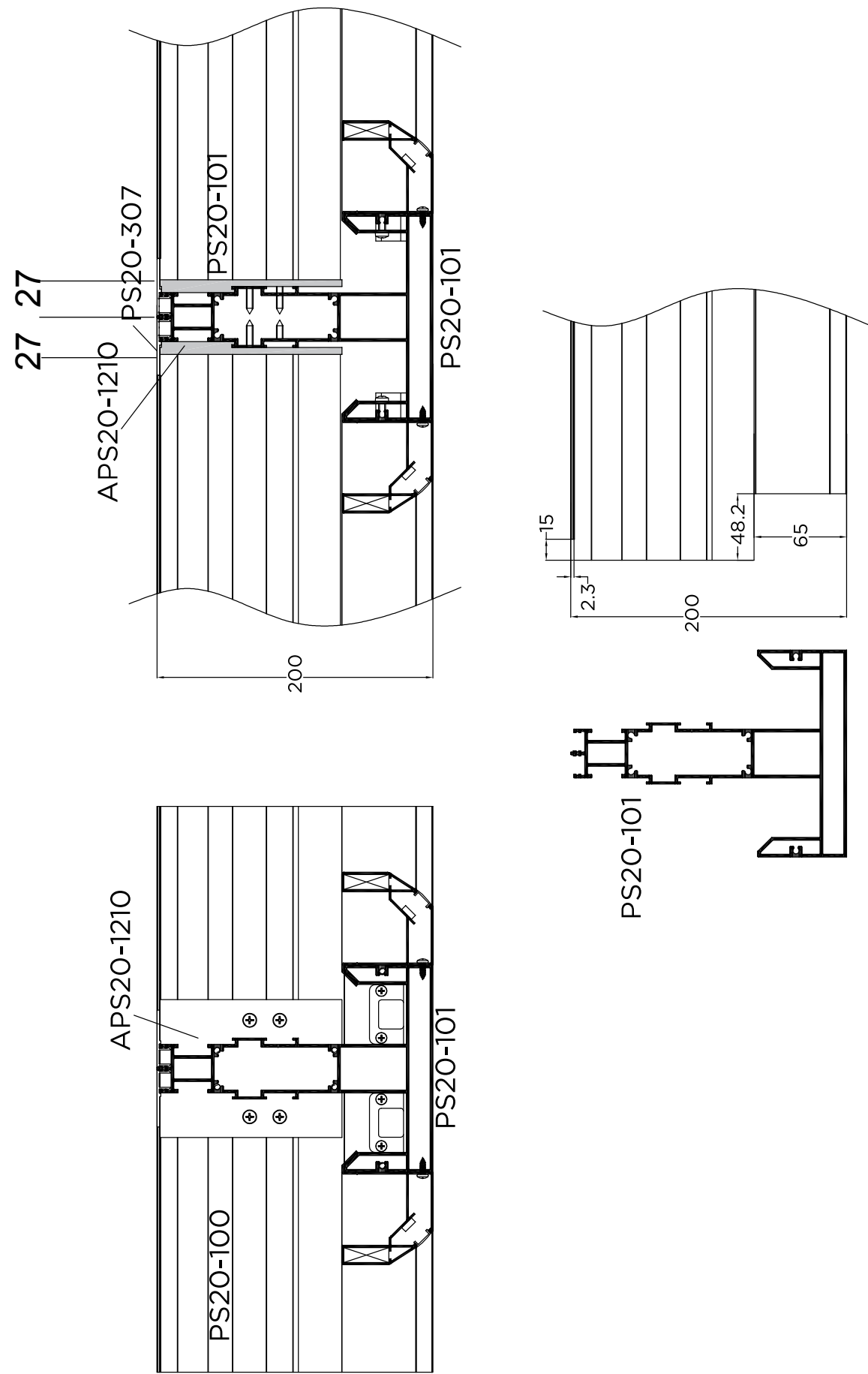
ΣΥΝΔΕΣΗ LED SPOT ΣΤΗΝ ΠΕΡΣΙΔΑ PS20-200  
FIXATION LED SPOT ONTO LOUVER PS20-200



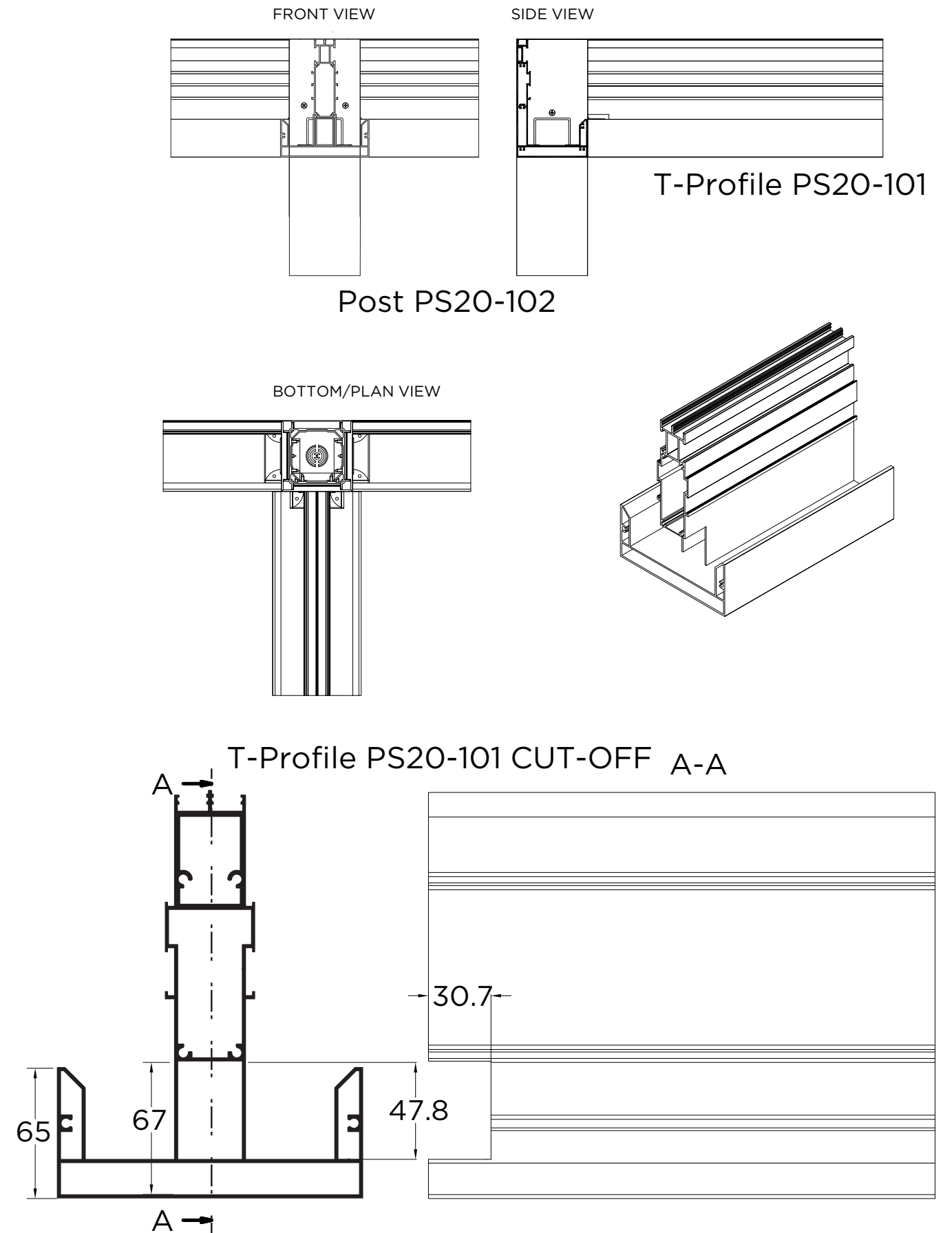


ΚΑΤΕΓΓΑΣΙΕΣ ΚΟΠΩΝ ΤΑΥ\_ΣΥΝΔΕΣΗ ΜΕ ΤΕΓΙΔΑ  
CUTTINGS- T-PROFILE IN CONNECTION WITH TRANSOM



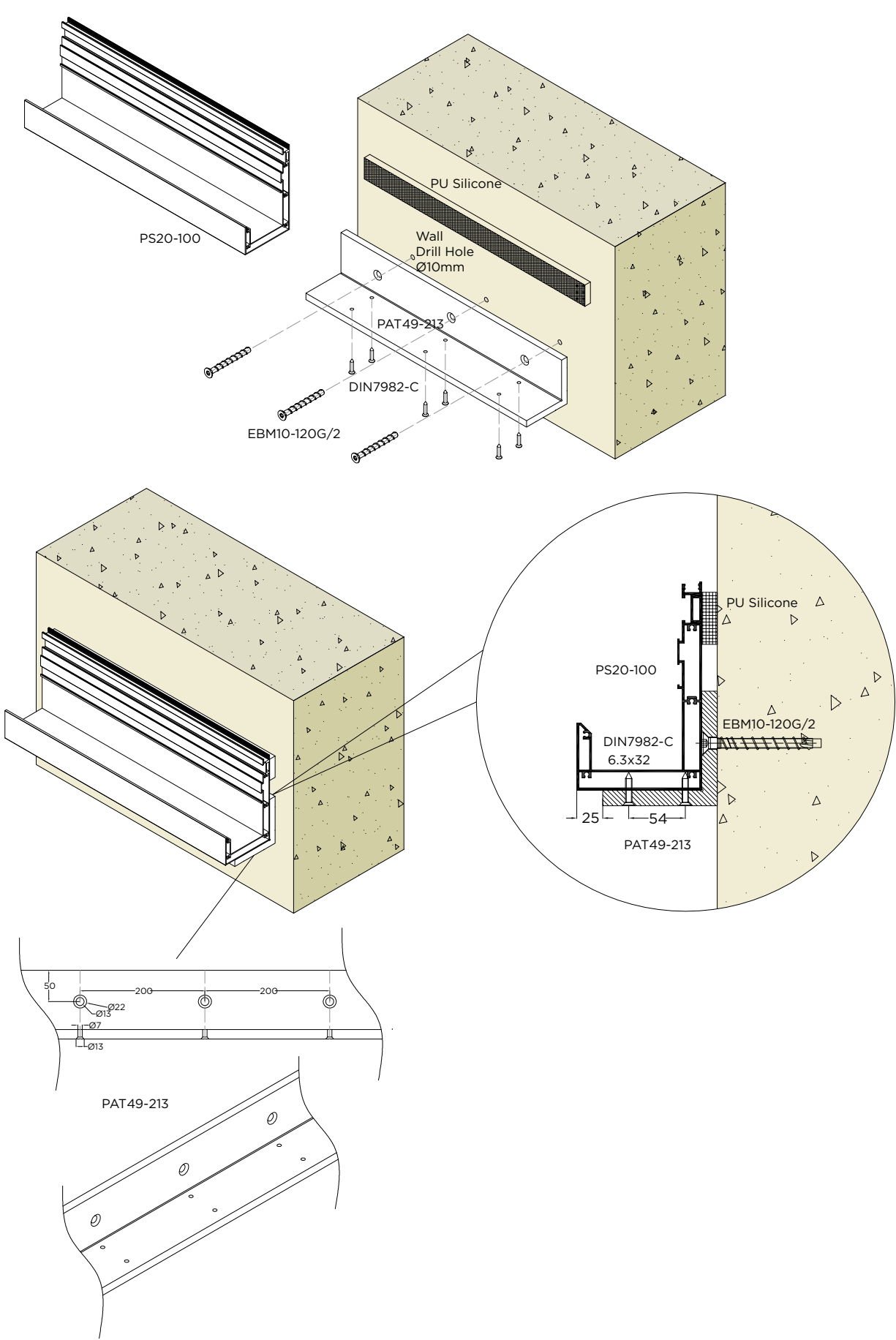
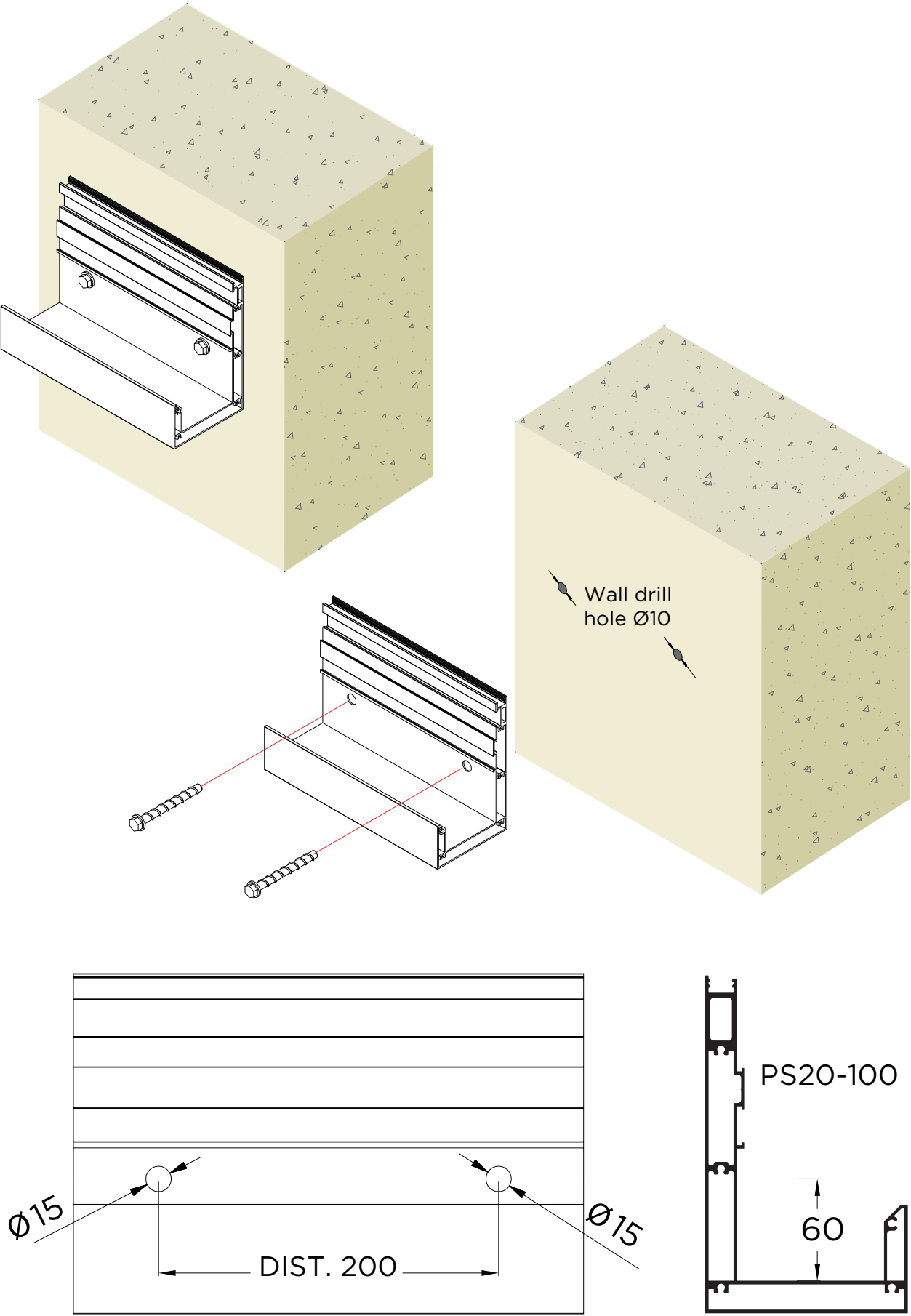


ΚΑΤΕΡΓΑΣΙΕΣ ΚΟΠΩΝ ΤΑΥ\_ ΣΥΝΔΕΣΗ ΜΕ ΚΟΛΩΝΑ  
CUTTINGS- T-PROFILE IN CONNECTION WITH POST



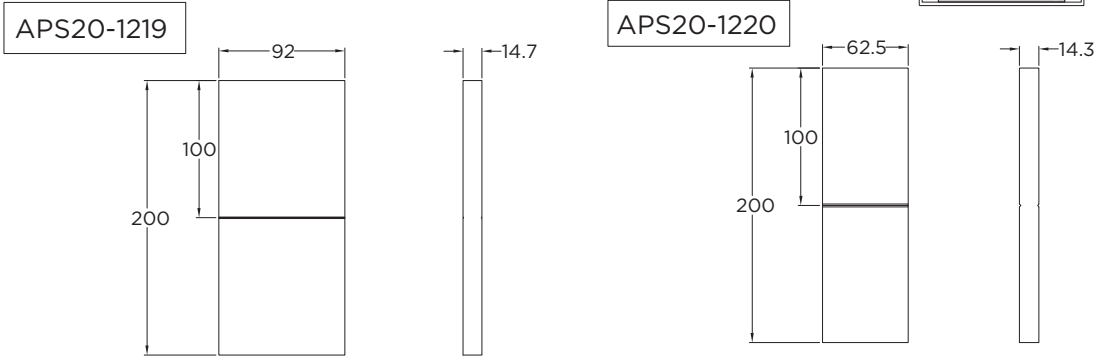
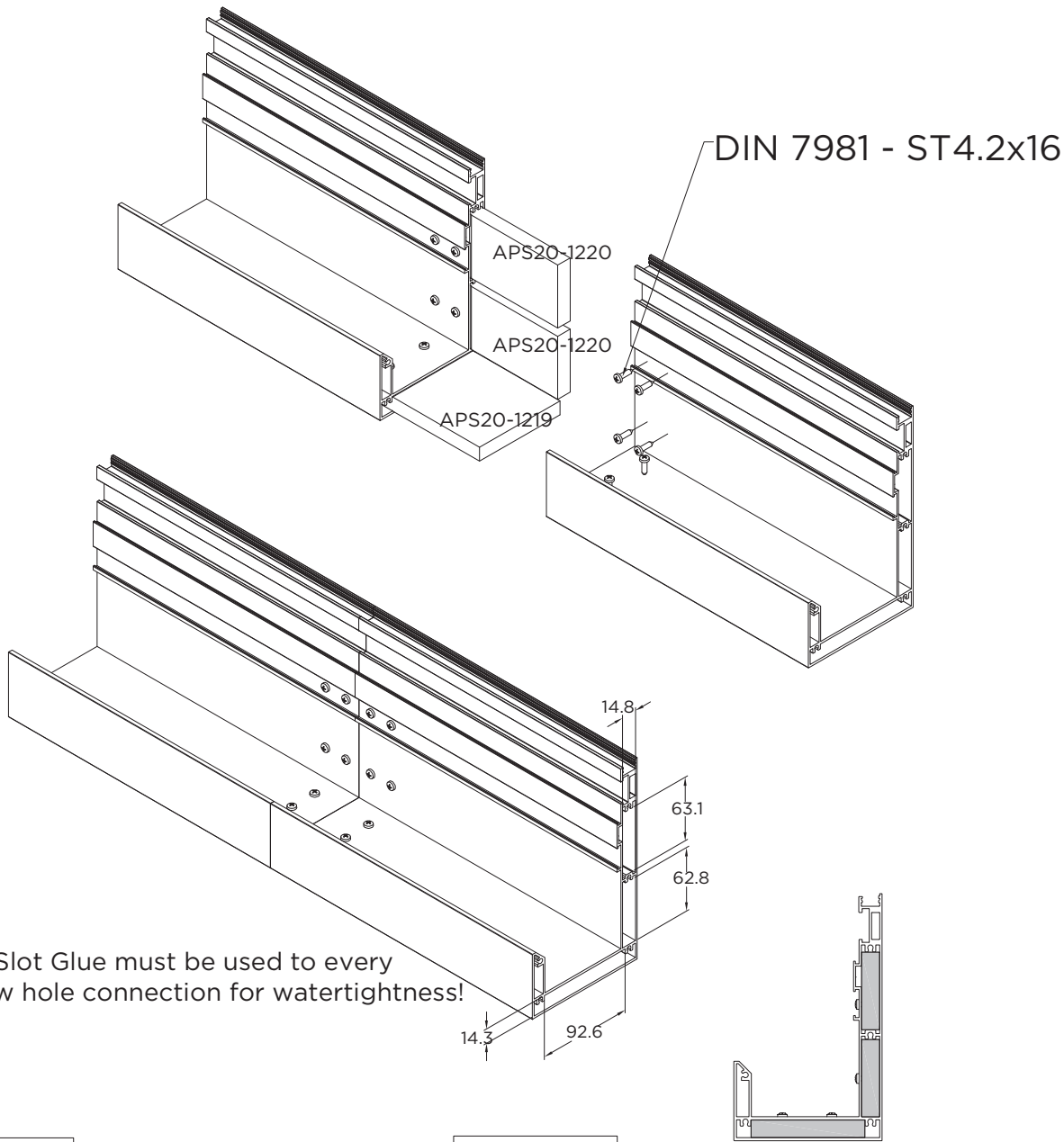
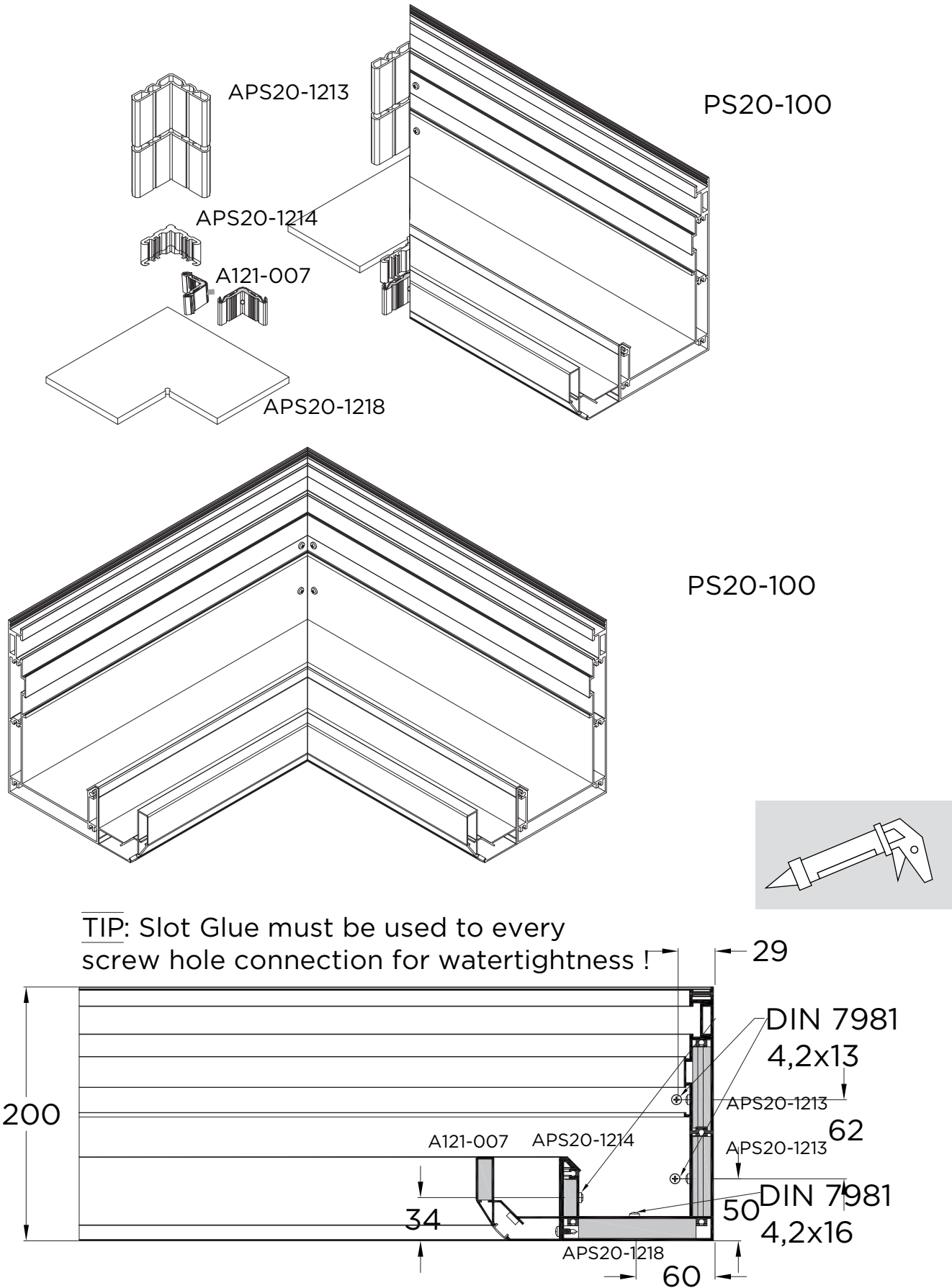
ΣΤΗΡΙΞΗ ΤΕΓΙΔΑΣ PS20-100 ΣΤΟΝ ΤΟΙΧΟ  
FIXATION OF TRANSOM PS20-100 ONTO WALL

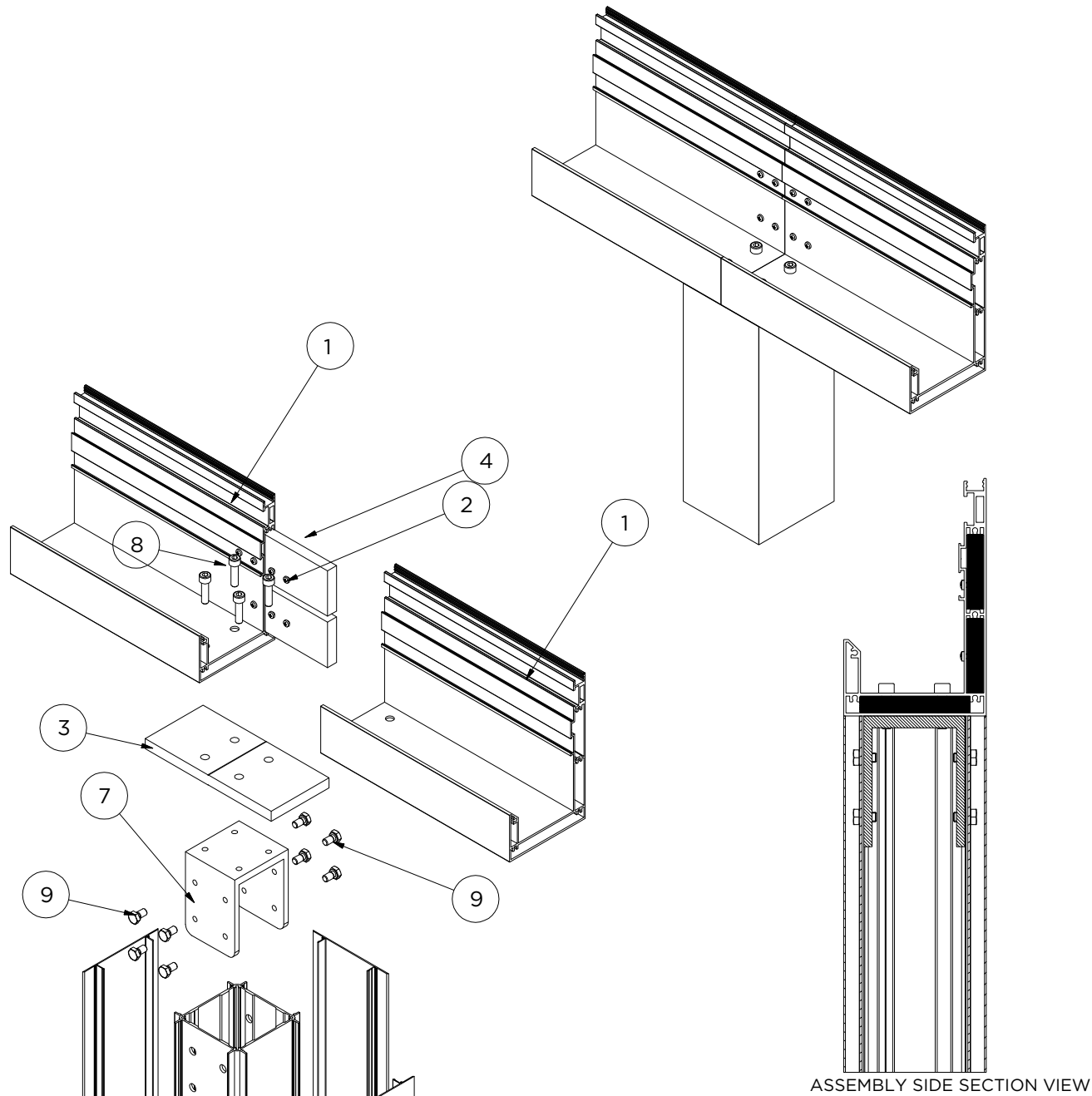
ΣΤΗΡΙΞΗ ΤΡΑΒΕΡΣΑΣ PS20-100 ΣΤΟΝ ΤΟΙΧΟ - 2nd OPTION  
FIXATION OF TRANSOM PS20-100 ONTO WALL - 2nd OPTION



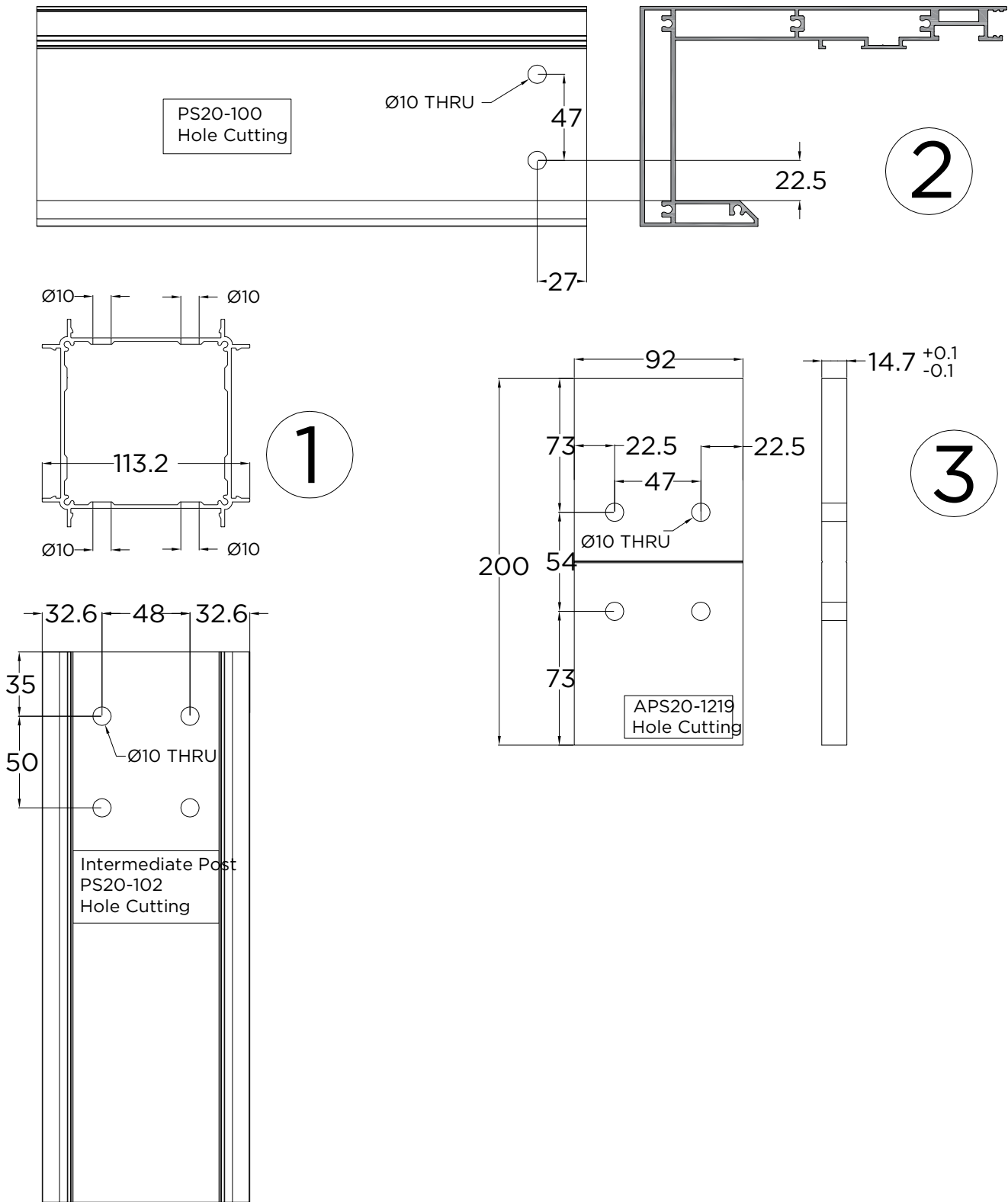
ΓΩΝΙΕΣ ΣΥΝΔΕΣΗΣ & ΕΥΘΥΓΡΑΜΙΣΗΣ PS20-100 / PS20-304  
CRIMPING & ALIGNMENT CORNERS FOR PS20-100 / PS20-304

PS20-100\_APS20-1219 / APS20-1220 LINEAR CONNECTION DETAIL  
ΛΕΠΤΟΜΕΡΕΙΑ ΕΥΘΕΙΑΣ ΣΥΝΔΕΣΗΣ PS20-100\_APS20-1219 / APS20-1220

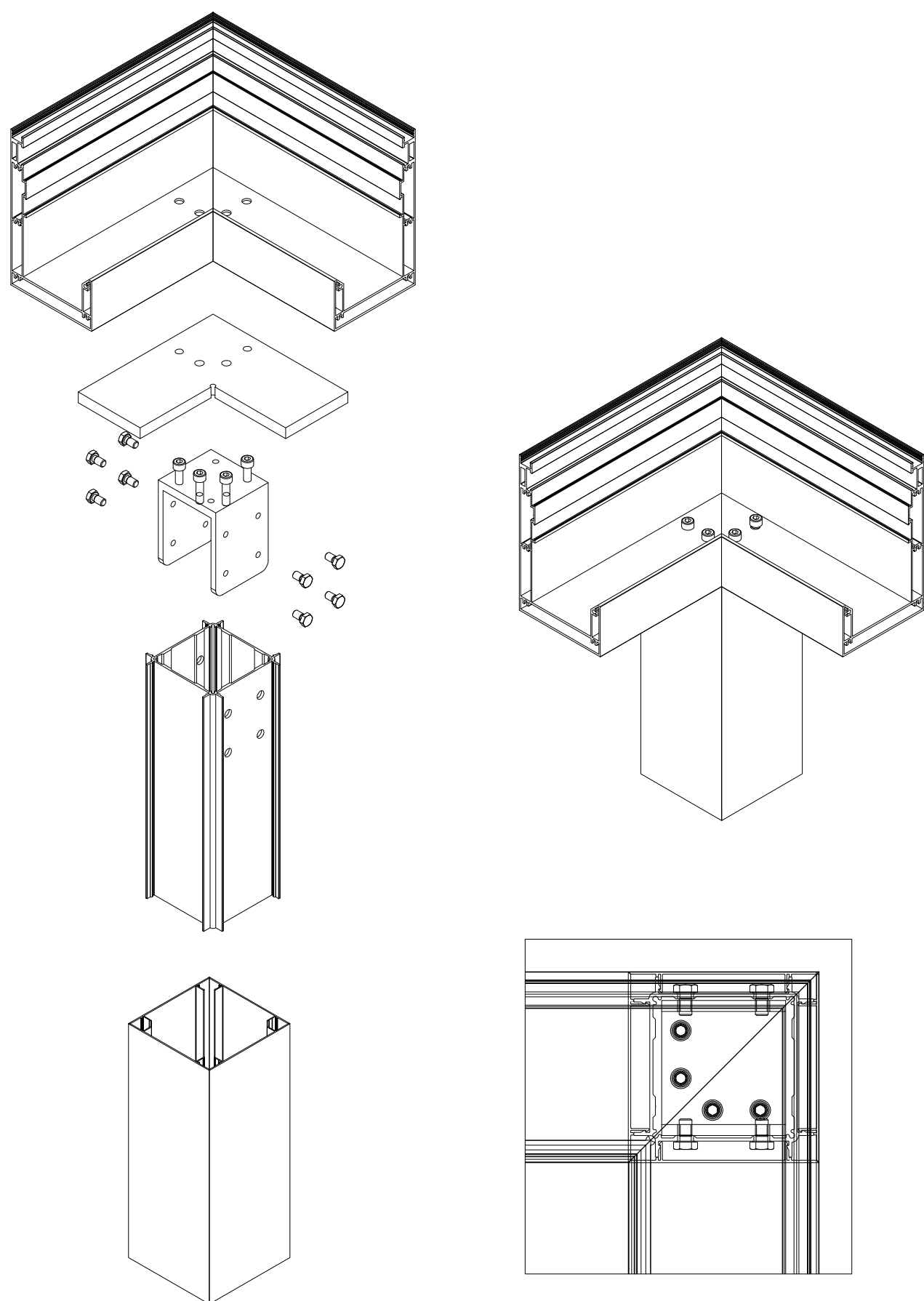




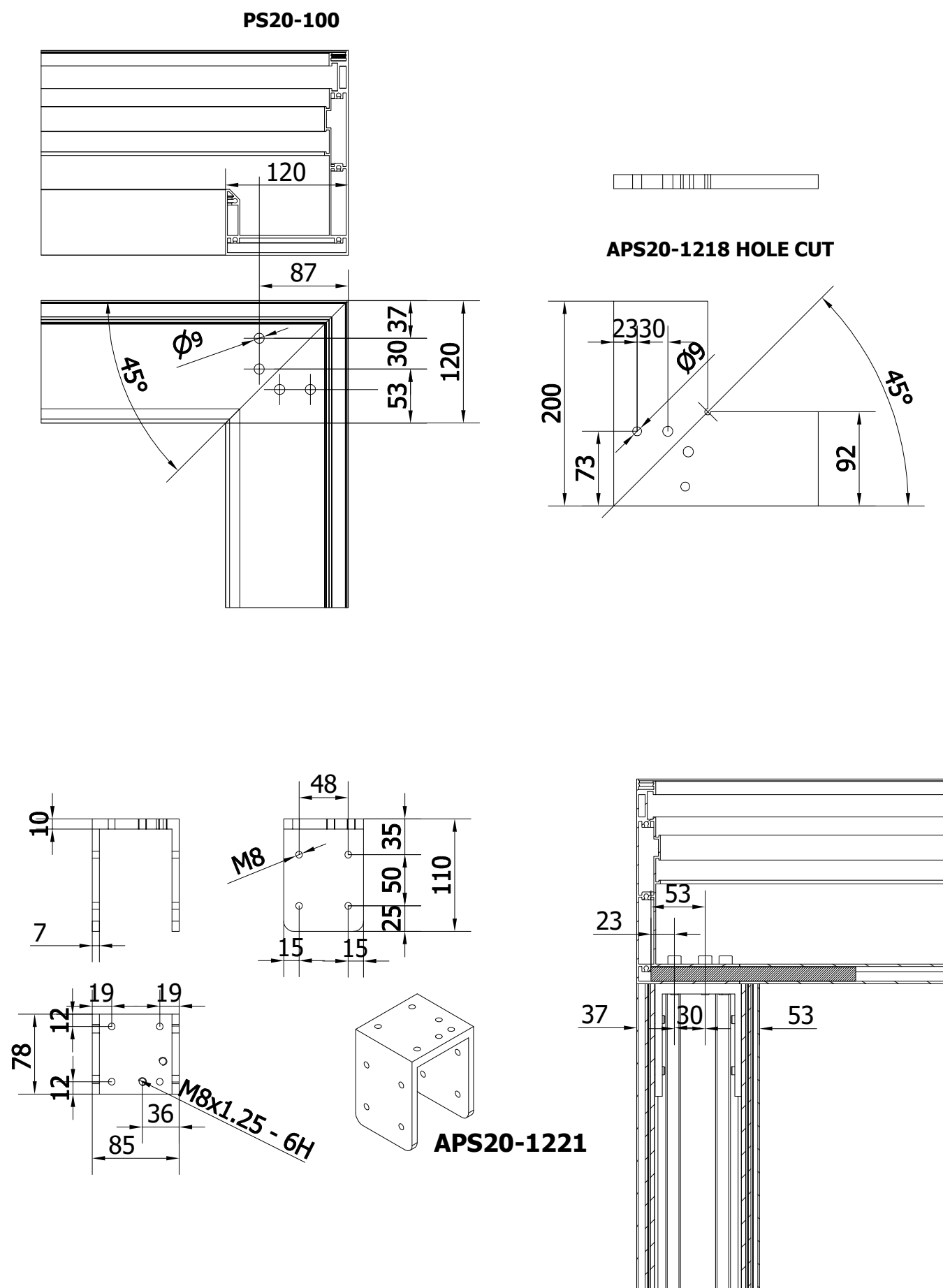
| PARTS LIST |     |                  |                            |
|------------|-----|------------------|----------------------------|
| ITEM       | QTY | PART NUMBER      | DESCRIPTION                |
| 1          | 2   | PS20-100         |                            |
| 2          | 8   | DIN 7981-T4.2x16 | (Sheetmetal) Tapping Screw |
| 3          | 1   | APS20-1219       |                            |
| 4          | 2   | APS20-1220       |                            |
| 5          | 1   | PS20-102         |                            |
| 6          | 4   | PS20-305         |                            |
| 7          | 1   | APS20-1221       |                            |
| 8          | 4   | DIN 912-M8x30    | Cylinder Head Cap Screw    |
| 9          | 8   | DIN 933-M8x14    | Hex-Head Bolt              |

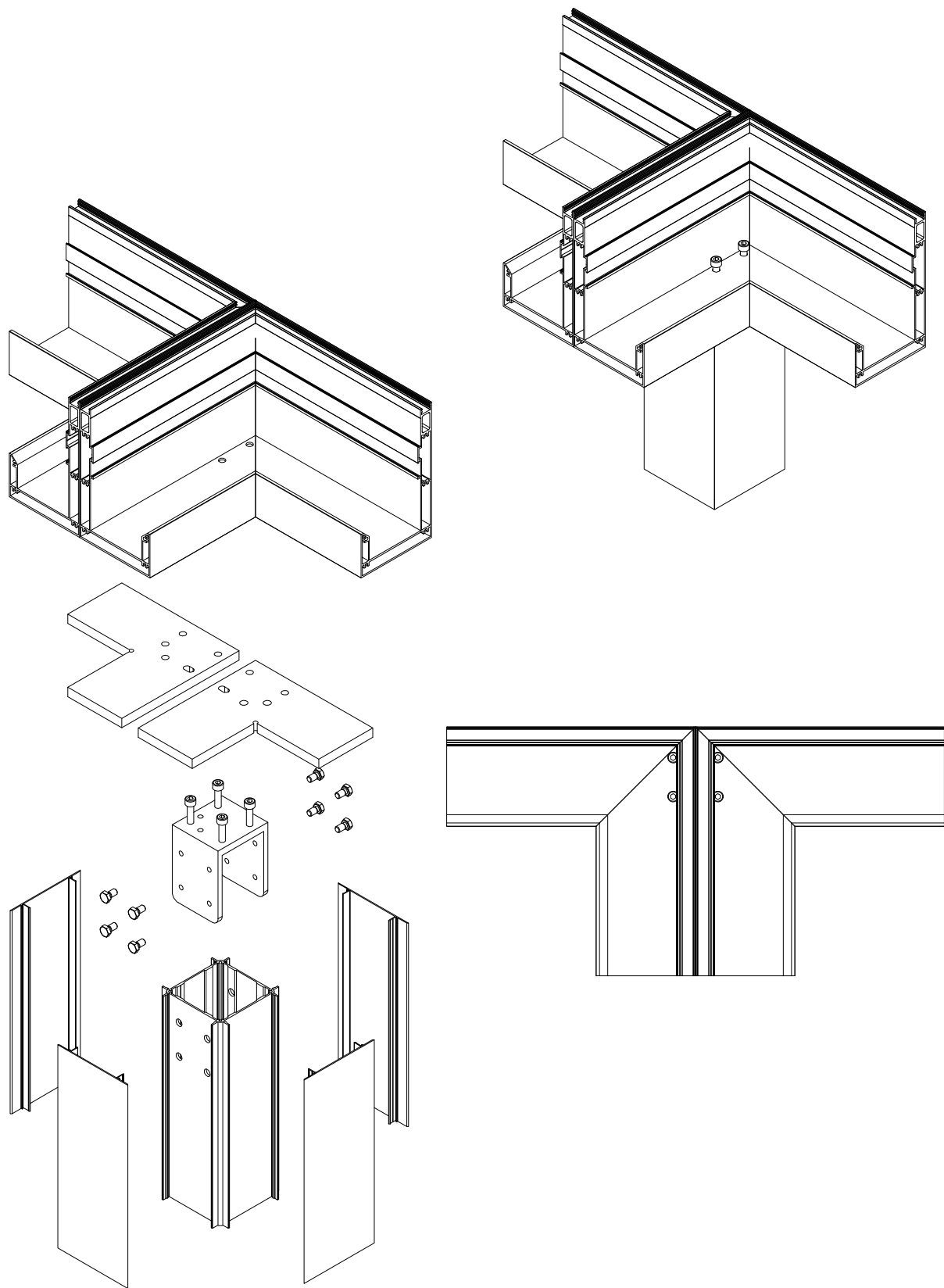


PS20-100\_APS20-1221\_CORNER POST CONNECTION DETAIL  
ΛΕΠΤΟΜΕΡΕΙΑ ΣΥΝΔΕΣΗΣ ΓΩΝΙΑΚΗΣ ΚΟΛΩΝΑΣ PS20-100\_APS20-1221

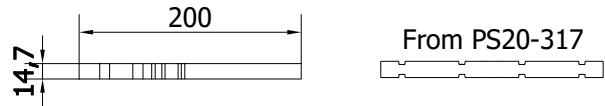
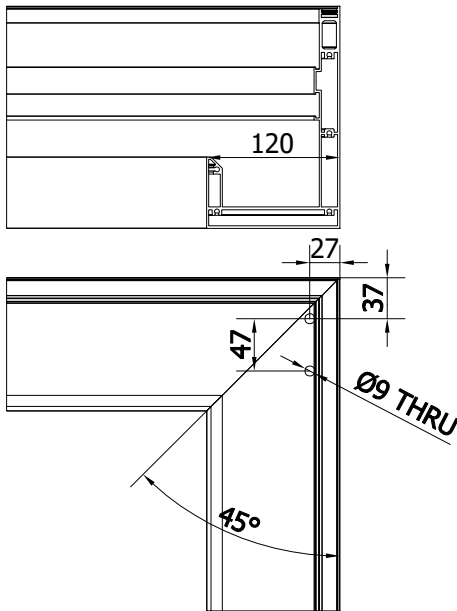


PS20-100\_APS20-1221\_CORNER POST CONNECTION DETAIL  
ΛΕΠΤΟΜΕΡΕΙΑ ΣΥΝΔΕΣΗΣ ΓΩΝΙΑΚΗΣ ΚΟΛΩΝΑΣ PS20-100\_APS20-1221

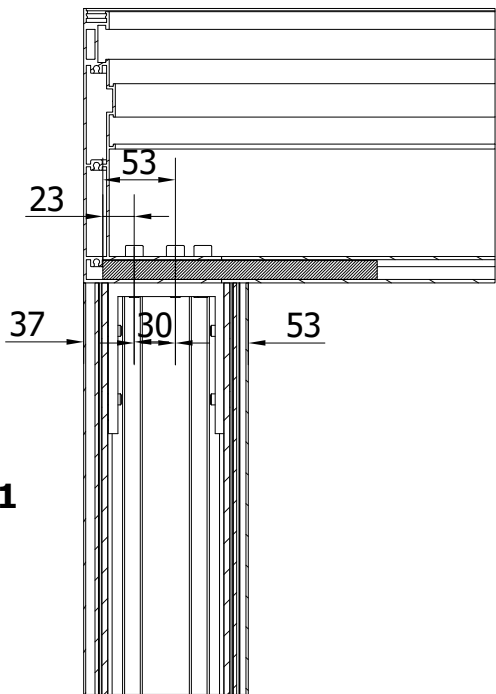
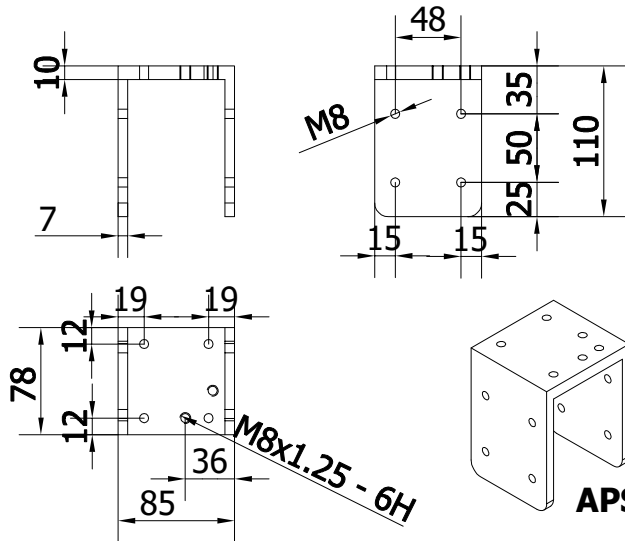
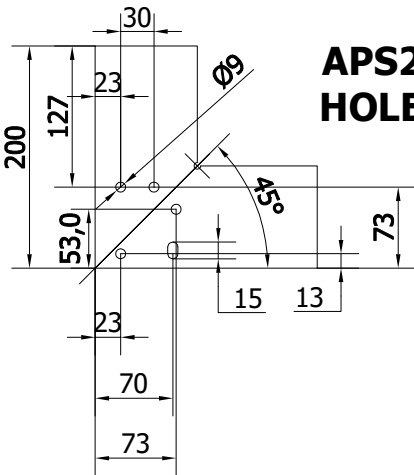


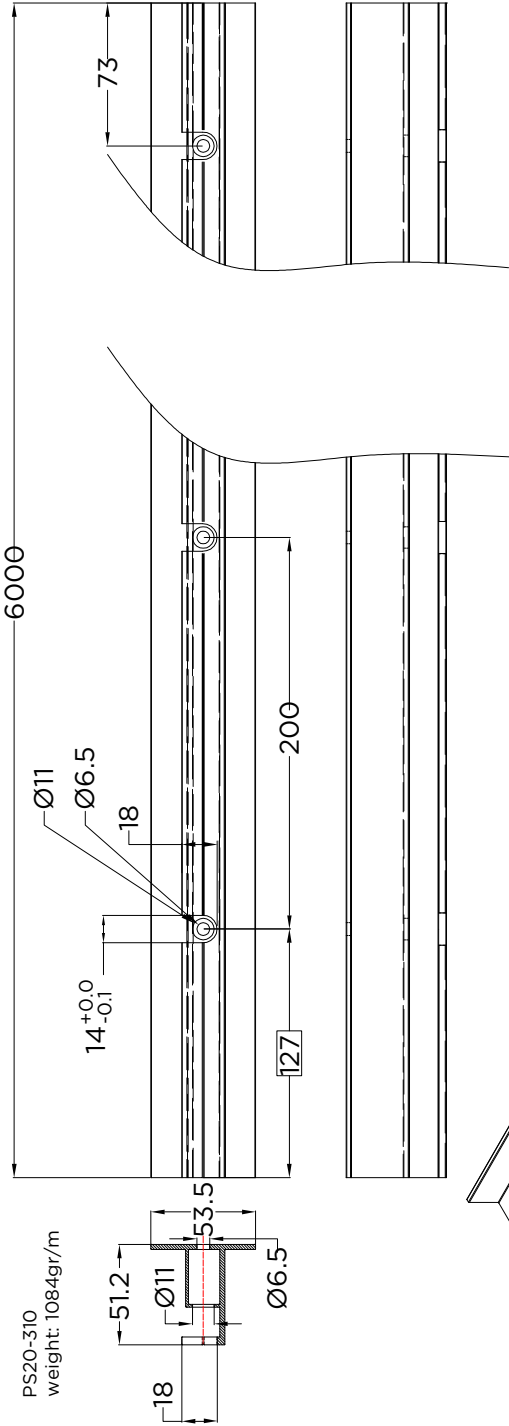


**PS20-100**



**APS20-1218  
HOLE DRILLING**

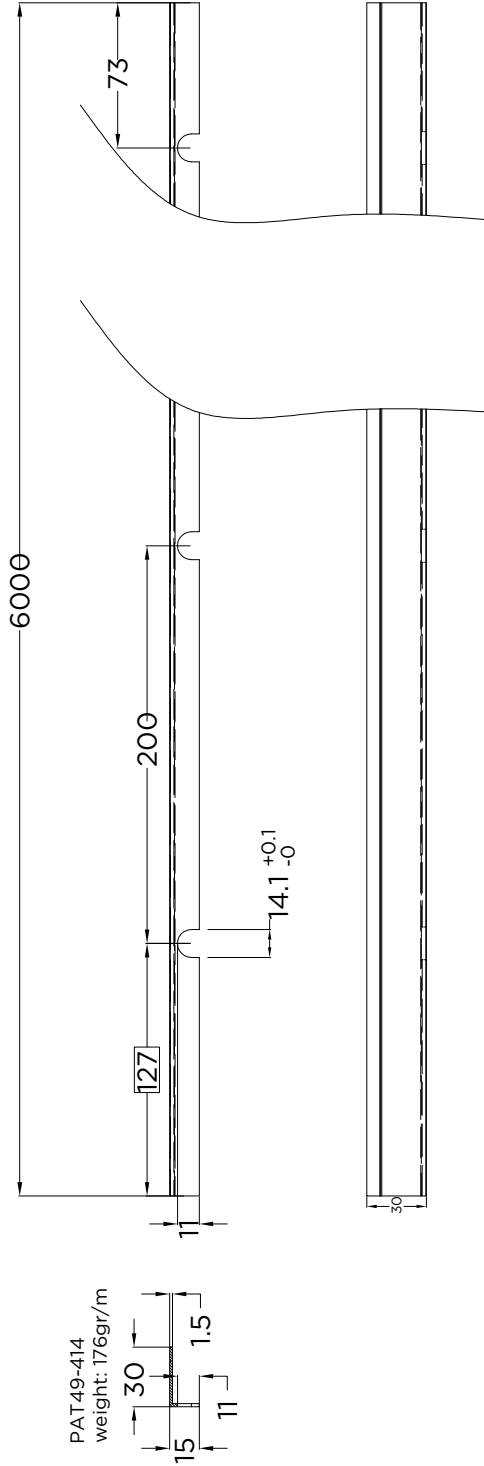




-HOLES NO.: 30 PCS-

BIO-Pergola PIN-BUSH CUTTINGS  
\_ Length 6m

APS20-1516



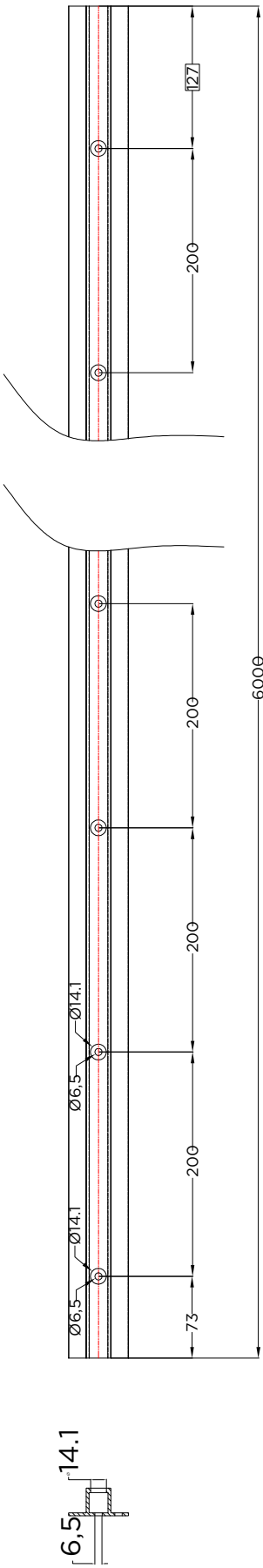
-HOLES NO.: 30 PCS-

BIO-Pergola PIN-BUSH CUTTINGS  
\_ Length 6m

APS20-1518

ΚΑΤΕΡΓΑΣΙΑ ΚΟΠΩΝ ΟΔΗΓΟΥ ΤΑΥ ΚΙΝΗΣΗΣ ΠΕΡΣΙΔΩΝ PS20-303  
PS20-303 T-PROFILE LOUVER GUIDERAIL HOLE CUTTINGS

-from PS20-303-



APS20-1517

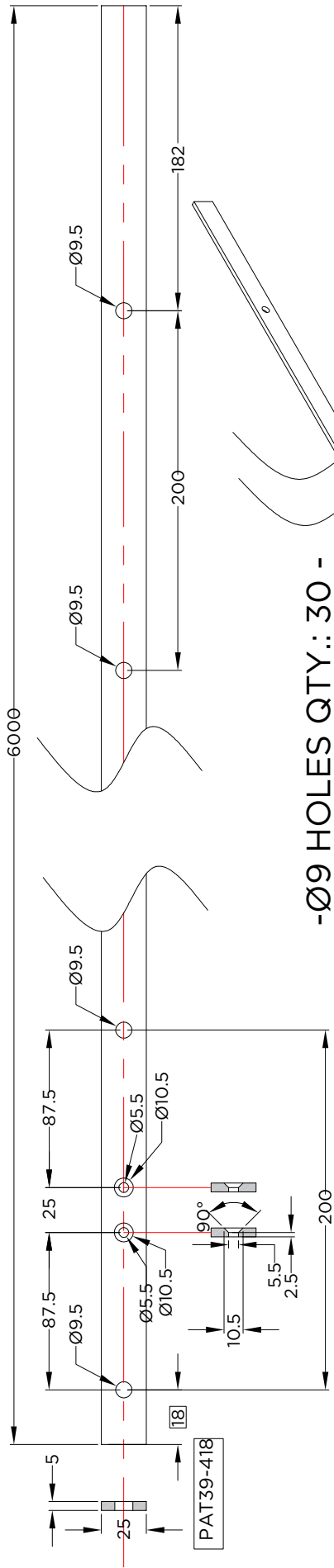
-HOLES NO.: 30 PCS-

BIO-Pergola PIN-BUSH CUTTINGS \_ Length 6m

ΚΑΤΕΡΓΑΣΙΑ ΚΟΠΩΝ ΛΑΜΑΣ ΚΙΝΗΣΗΣ APS20-1501  
APS20-1501 MOTION BLADE HOLE CUTTINGS

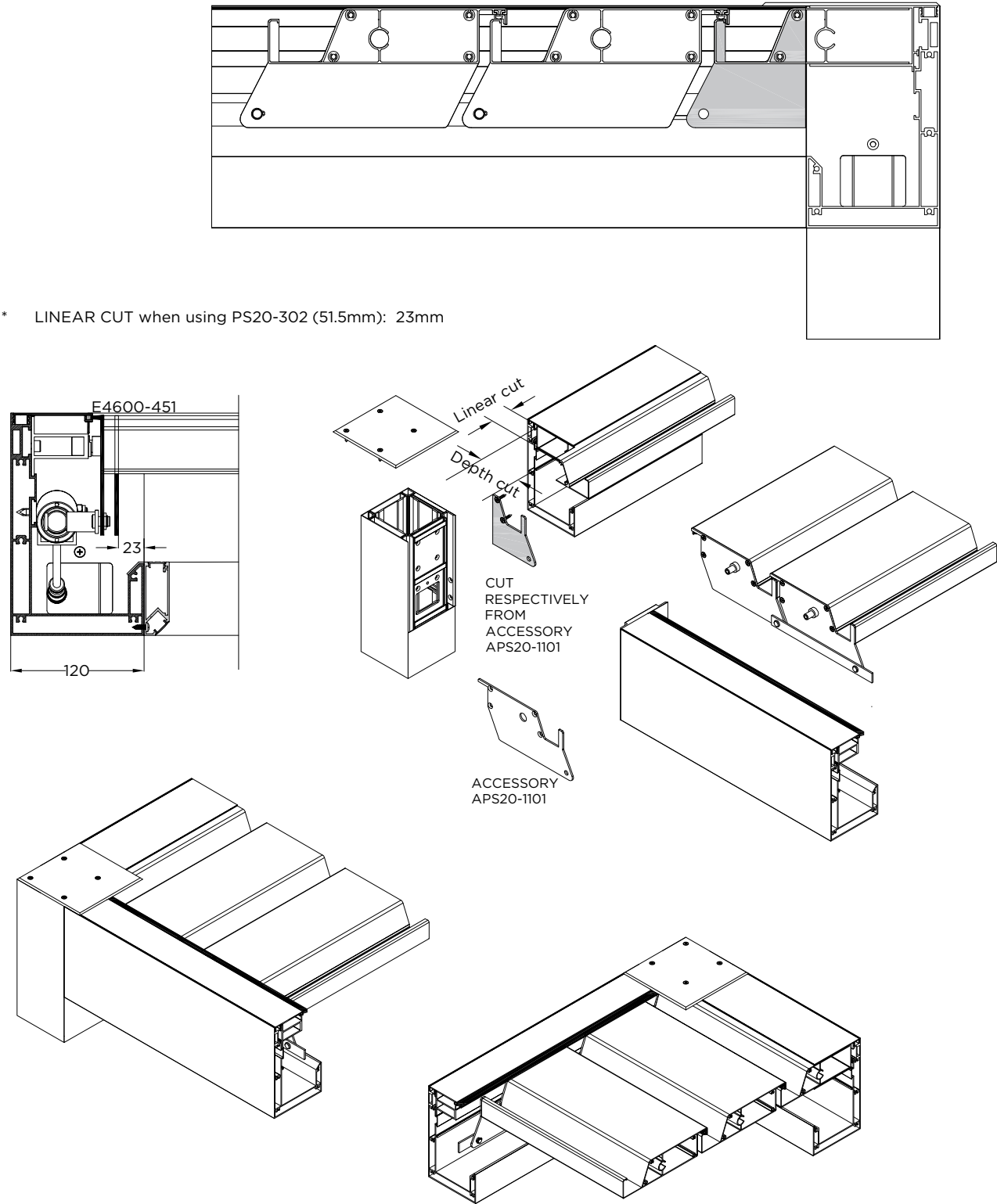
APS20-1501

BIO-Pergola Motion Blade Hole CUTTINGS \_ Length 6m

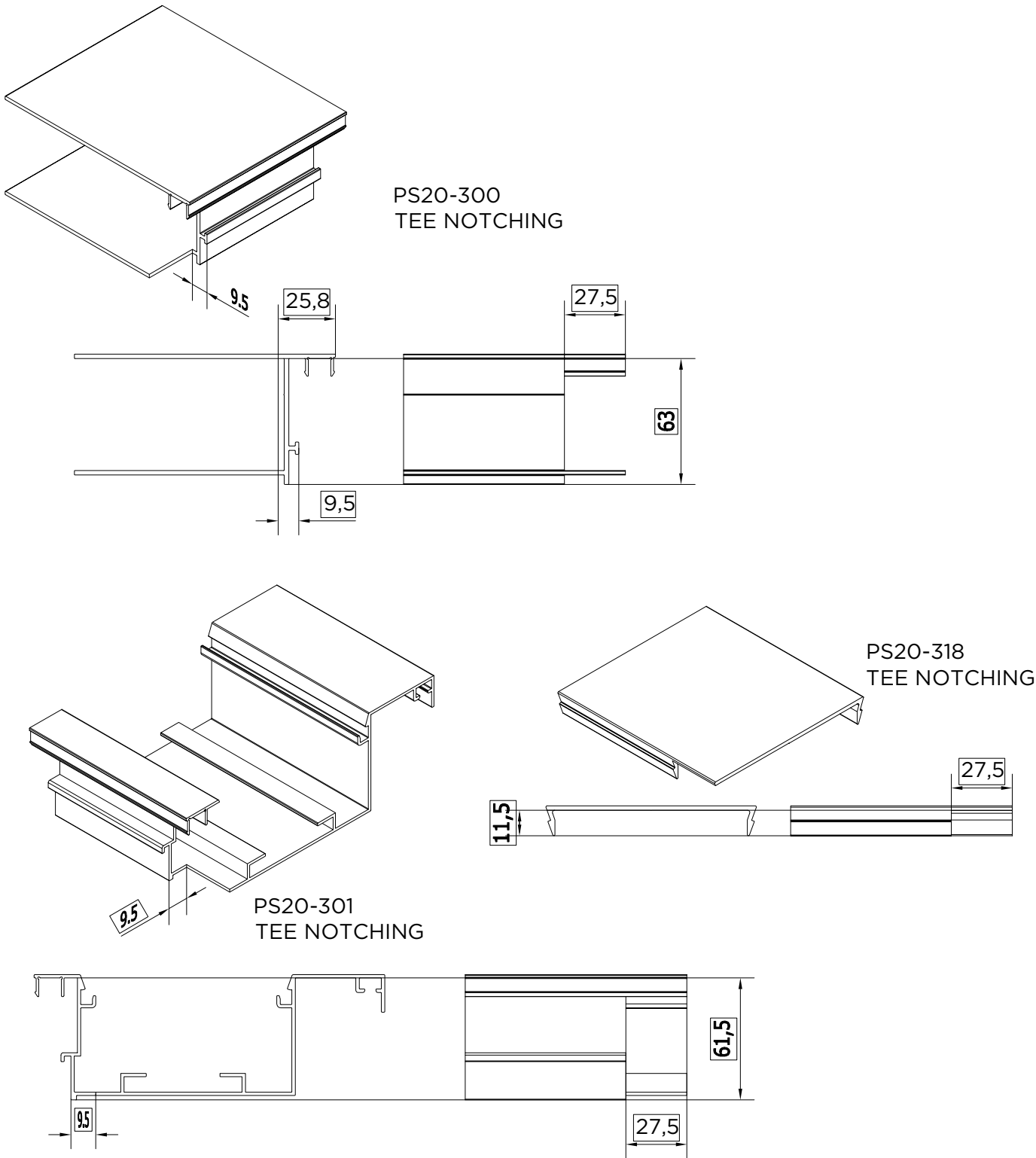


-Ø9 HOLES QTY.: 30 -

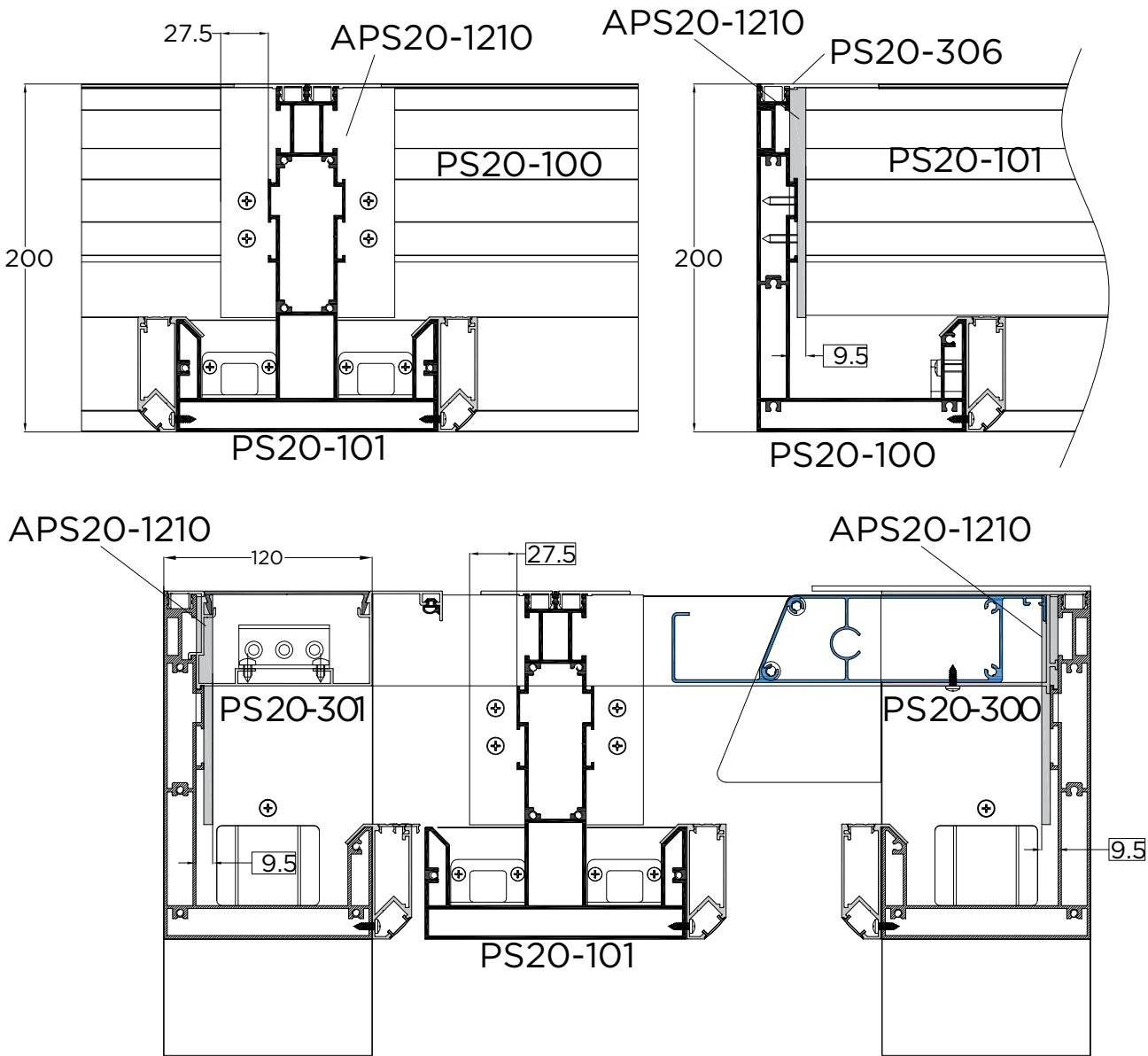
FIXED LOUVER NOTCHING DETAIL  
ΛΕΠΤΟΜΕΡΕΙΑ ΧΑΝΤΡΩΜΑΤΟΣ ΣΤΑΘΕΡΗΣ ΠΕΡΣΙΔΑΣ



NOTCHING PS20-300/301\_PF360-039 USING T-PROFILE PS20-101  
ΧΑΝΤΡΩΜΑΤΑ ΤΩΝ ΠΡΟΦΙΛ PS20-300/301\_PF360-039 ΣΕ ΤΑΥ PS20-101



NOTCHING PS20-300/301\_PF360-039 USING T-PROFILE PS20-101  
ΧΑΝΤΡΩΜΑΤΑ ΤΩΝ ΠΡΟΦΙΛ PS20-300/301\_PF360-039 ΣΕ ΤΑΥ PS20-101



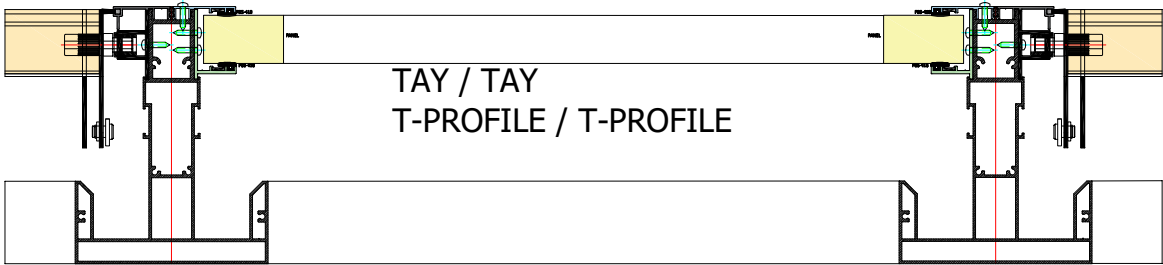
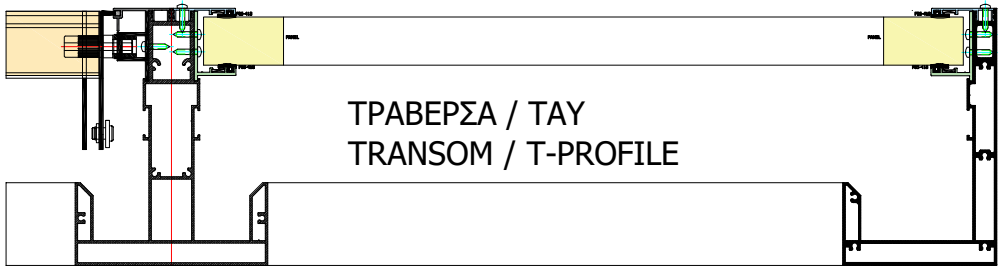
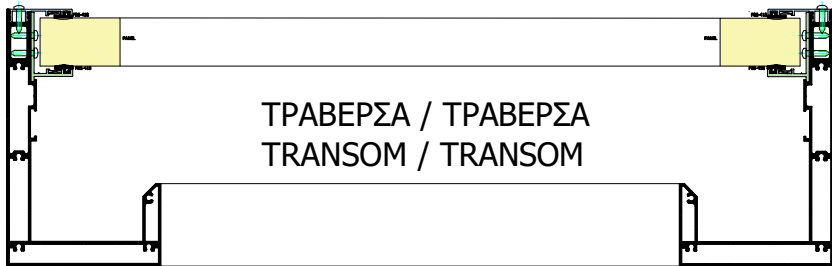
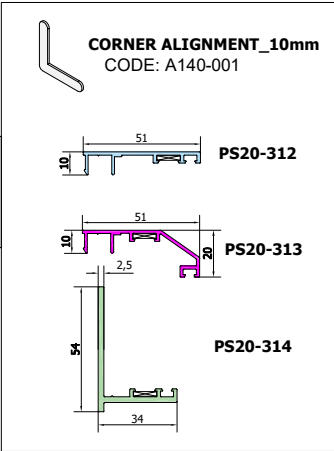
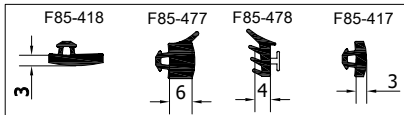
## ΠΡΟΣΘΕΤΑ ΣΤΟΙΧΕΙΑ ΠΕΡΓΚΟΛΑΣ / PERGOLA EXTRAS



ΤΡΑΒΕΡΣΑ PS20-100 ΜΕ ΠΡΟΦΙΛ ΓΙΑ ΠΑΝΕΛ  
TRANSOM PS20-100 WITH PANEL PROFILES



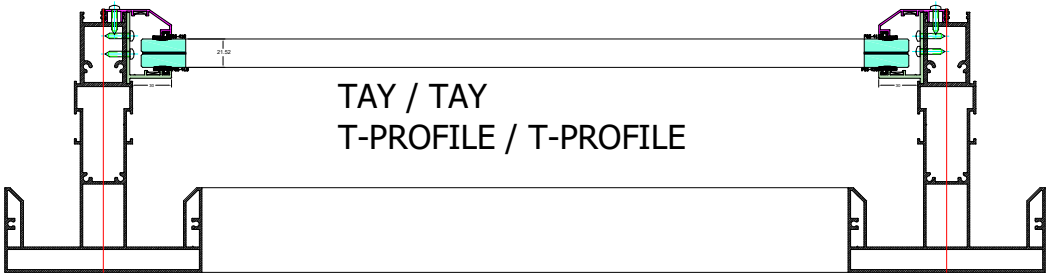
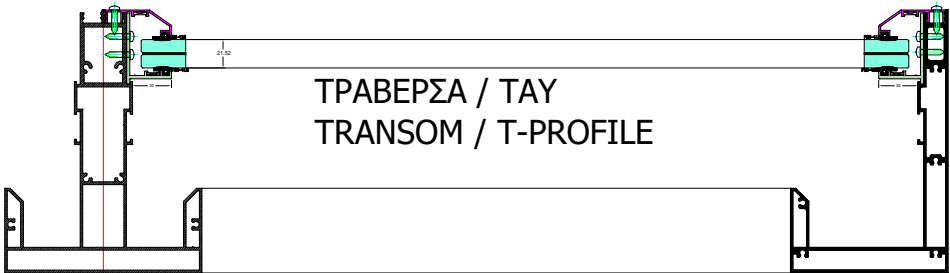
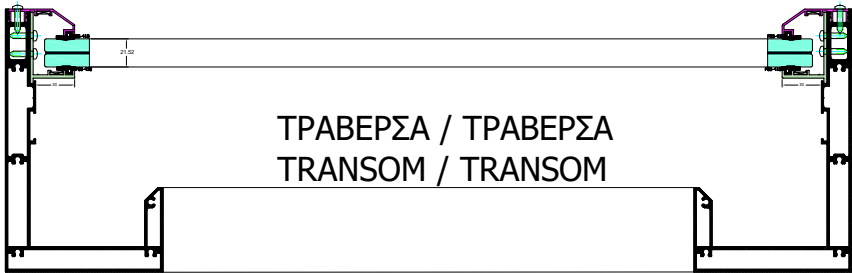
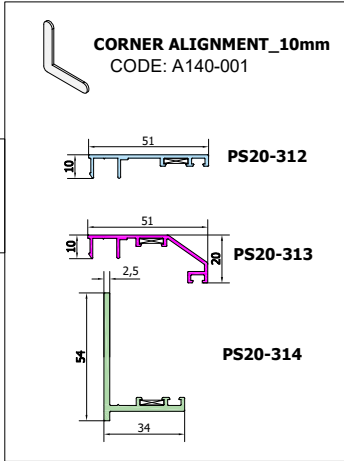
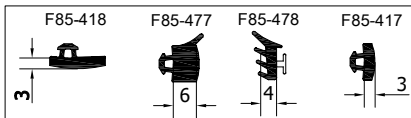
ΣΥΝΕΡΓΑΖΟΜΕΝΑ ΠΡΟΦΙΛ - ΛΑΣΤΙΧΑ  
WORKING PROFILES - GASKETS:



ΤΡΑΒΕΡΣΑ PS20-100 ΜΕ ΠΡΟΦΙΛ ΓΙΑ ΤΖΑΜΙ / PLEXIGLAS  
TRANSOM PS20-100 WITH GLASS PANEL / PLEXIGLAS PROFILES

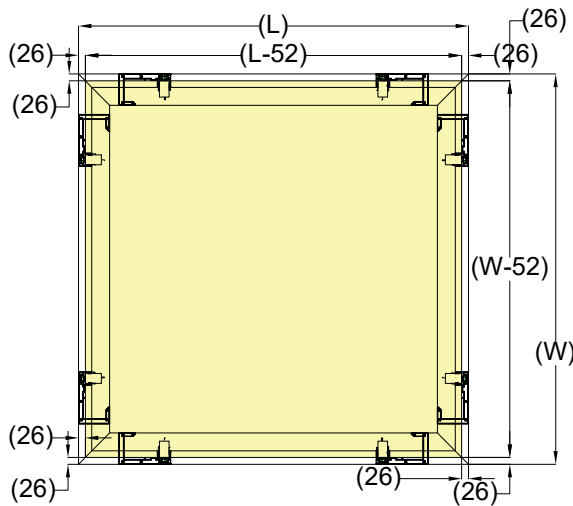


ΣΥΝΕΡΓΑΖΟΜΕΝΑ ΠΡΟΦΙΛ - ΛΑΣΤΙΧΑ  
WORKING PROFILES - GASKETS:

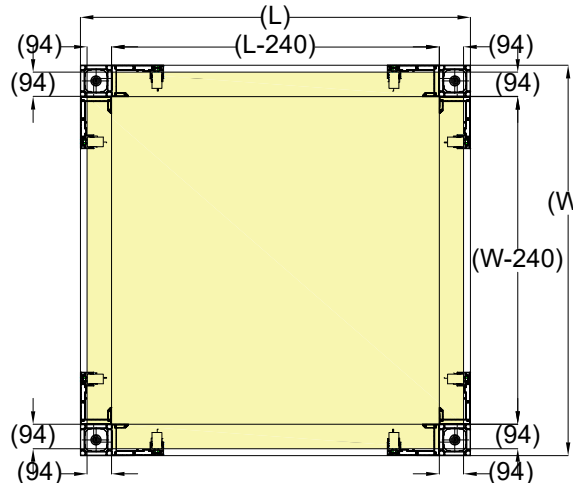


ΤΡΑΒΕΡΣΑ PS20-100 ΜΕ ΠΡΟΦΙΛ ΓΙΑ ΤΖΑΜΙ- PLEXIGLAS / ΠΑΝΕΛ -- ΚΟΠΕΣ ΜΗΚΩΝ  
TRANSOM PS20-100 WITH GLASS-PLEXIGLAS / PANEL PROFILES -- CUTTING LENGTHS

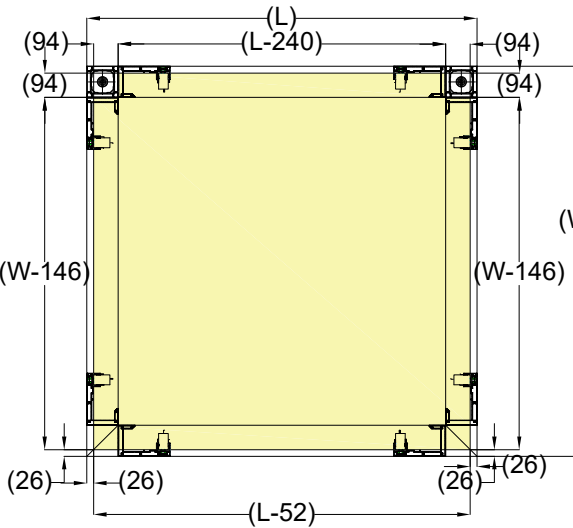
ΤΡΑΒΕΡΣΑ PS20-100 ΜΕ ΠΡΟΦΙΛ ΓΙΑ ΤΖΑΜΙ- PLEXIGLAS / ΠΑΝΕΛ -- ΚΟΠΕΣ ΜΗΚΩΝ  
TRANSOM PS20-100 WITH GLASS-PLEXIGLAS / PANEL PROFILES -- CUTTING LENGTHS



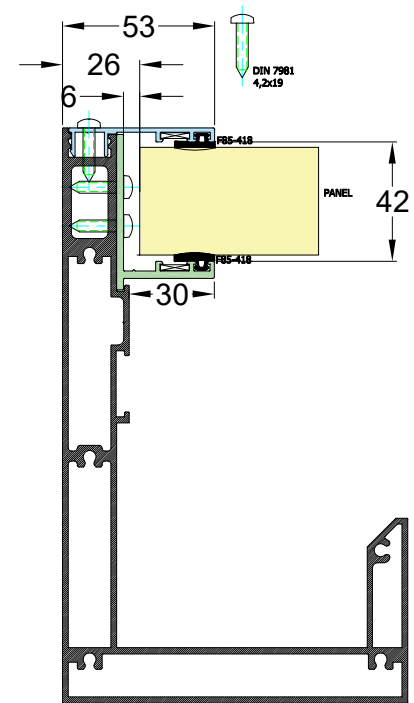
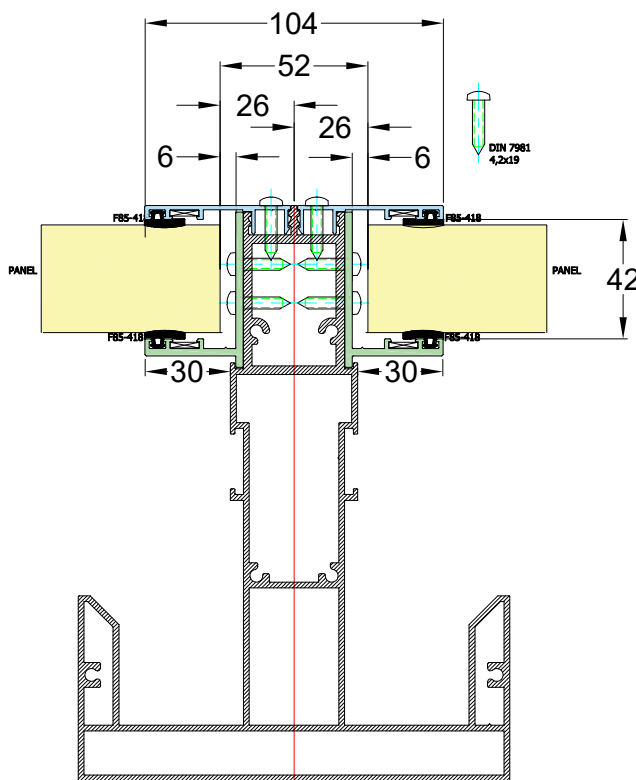
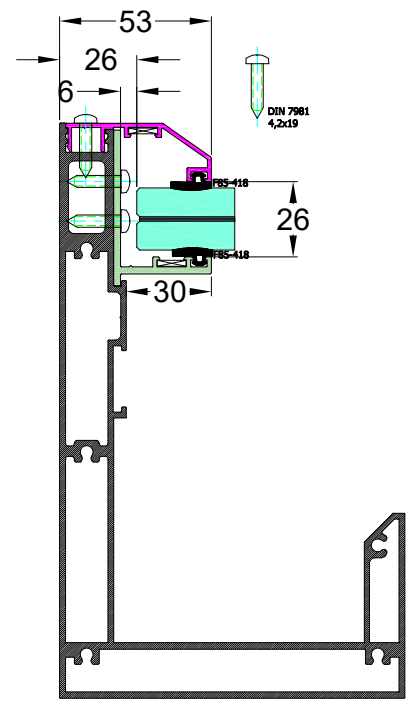
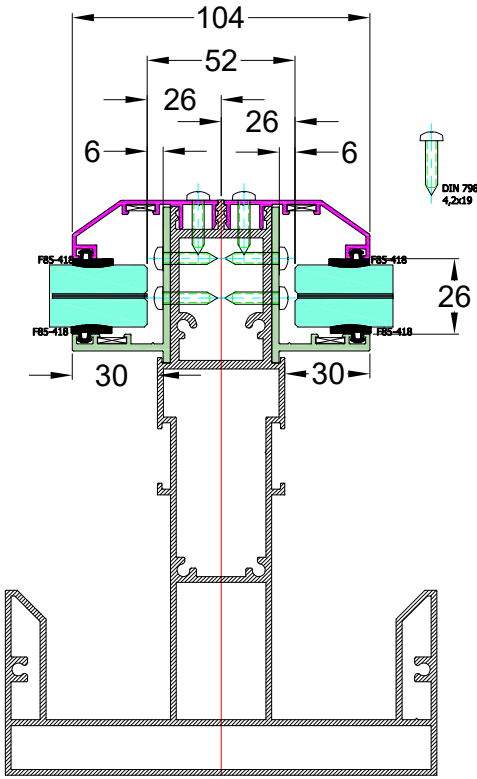
ΤΡΑΒΕΡΣΑ ΠΕΡΙΜΕΤΡΙΚΑ  
ΚΑΙ ΜΕΣΑ ΤΖΑΜΙ- PLEXIGLAS / ΠΑΝΕΛ  
TRANSOM ALL\_ROUND  
WITH GLASS-PLEXIGLAS / PANEL



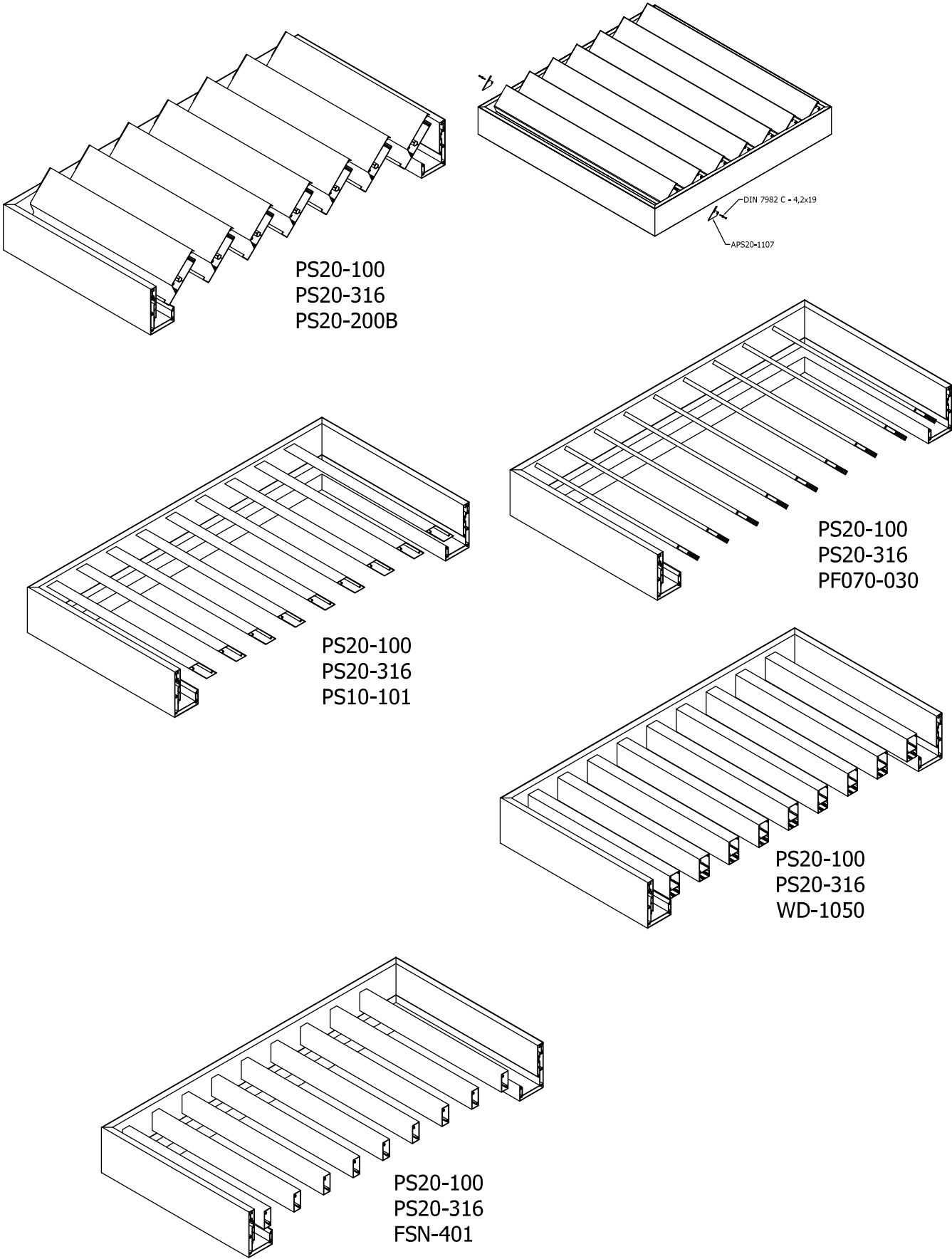
ΤΡΑΒΕΡΣΑ ΠΕΡΙΜΕΤΡΙΚΑ (4) ΚΟΛΩΝΕΣ  
ΚΑΙ ΜΕΣΑ ΤΖΑΜΙ- PLEXIGLAS / ΠΑΝΕΛ  
TRANSOM ALL\_ROUND WITH (4) POSTS  
AND GLASS-PLEXIGLAS / PANEL



ΤΡΑΒΕΡΣΑ ΠΕΡΙΜΕΤΡΙΚΑ (2) ΚΟΛΩΝΕΣ  
ΚΑΙ ΜΕΣΑ ΤΖΑΜΙ- PLEXIGLAS / ΠΑΝΕΛ  
TRANSOM ALL\_ROUND WITH (2) POSTS  
AND GLASS-PLEXIGLAS / PANEL

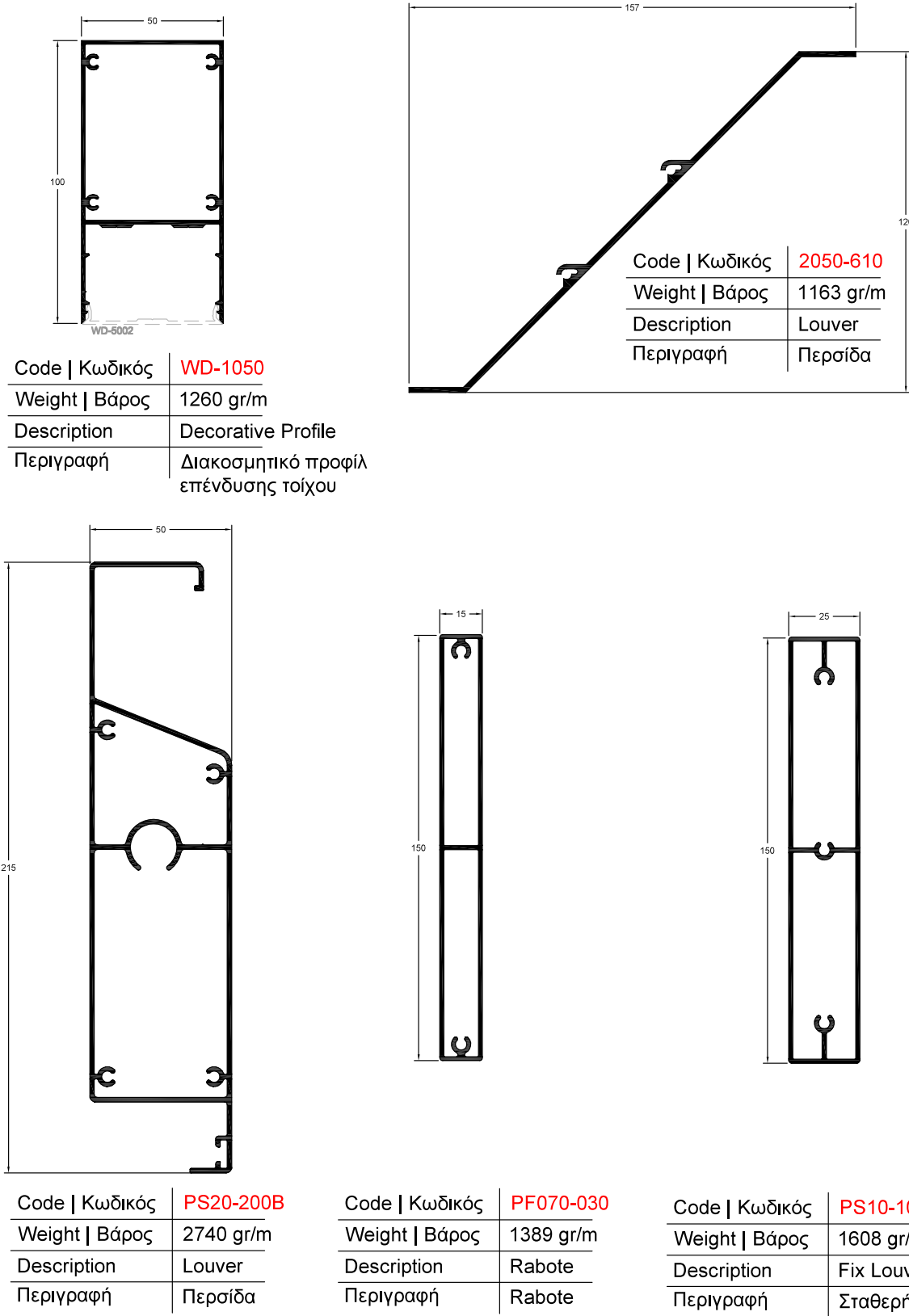


FIXED LOUVERS WITH PS20-100  
ΣΤΑΘΕΡΕΣ ΠΕΡΣΙΔΕΣ ΜΕ ΤΗΝ PS20-100



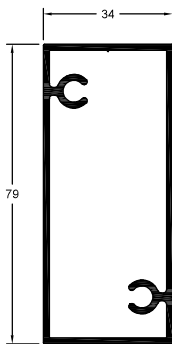
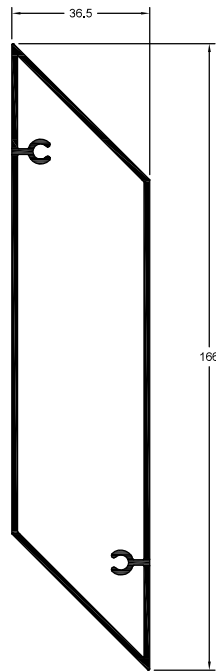
FIXED LOUVERS WITH PS20-100  
ΣΤΑΘΕΡΕΣ ΠΕΡΣΙΔΕΣ ΜΕ ΤΗΝ PS20-100

SCALE 1:2  
ΚΛΙΜΑΚΑ 1:2



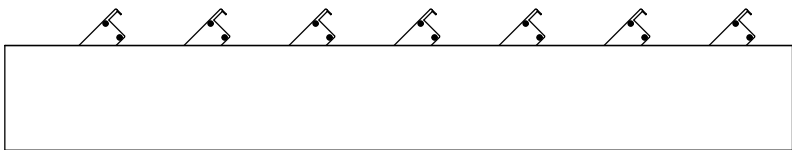
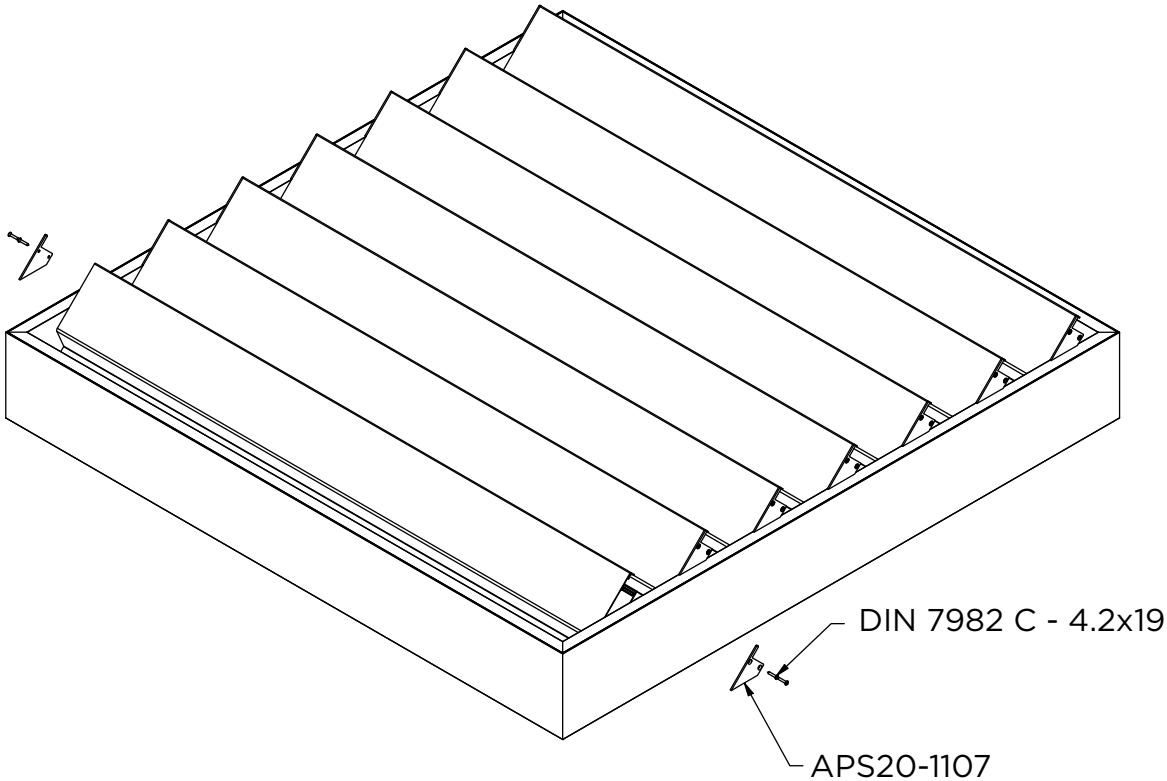
FIXED LOUVERS WITH PS20-100  
ΣΤΑΘΕΡΕΣ ΠΕΡΣΙΔΕΣ ΜΕ ΤΗΝ PS20-100

SCALE 1:2  
ΚΛΙΜΑΚΑ 1:2



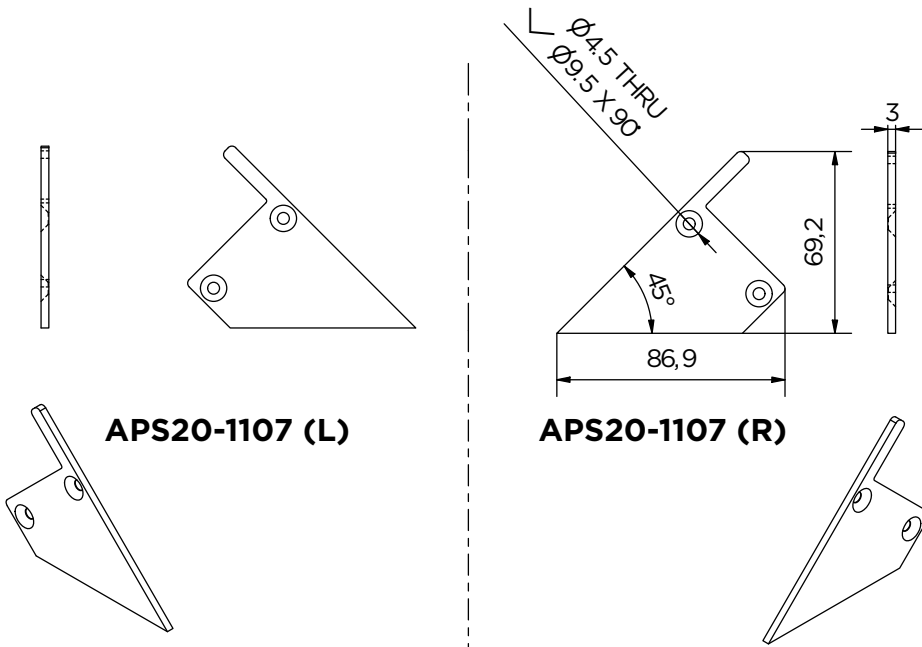
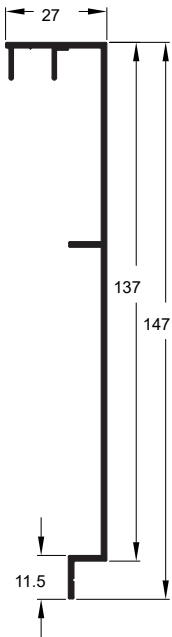
|                |                 |
|----------------|-----------------|
| Code   Κωδικός | PS10-101        |
| Weight   Βάρος | 1555 gr/m       |
| Description    | Fix Louver      |
| Περιγραφή      | Σταθερή Περσίδα |

|                |           |
|----------------|-----------|
| Code   Κωδικός | FSN-401   |
| Weight   Βάρος | 1142 gr/m |
| Description    | Column    |
| Περιγραφή      | Κολώνα    |

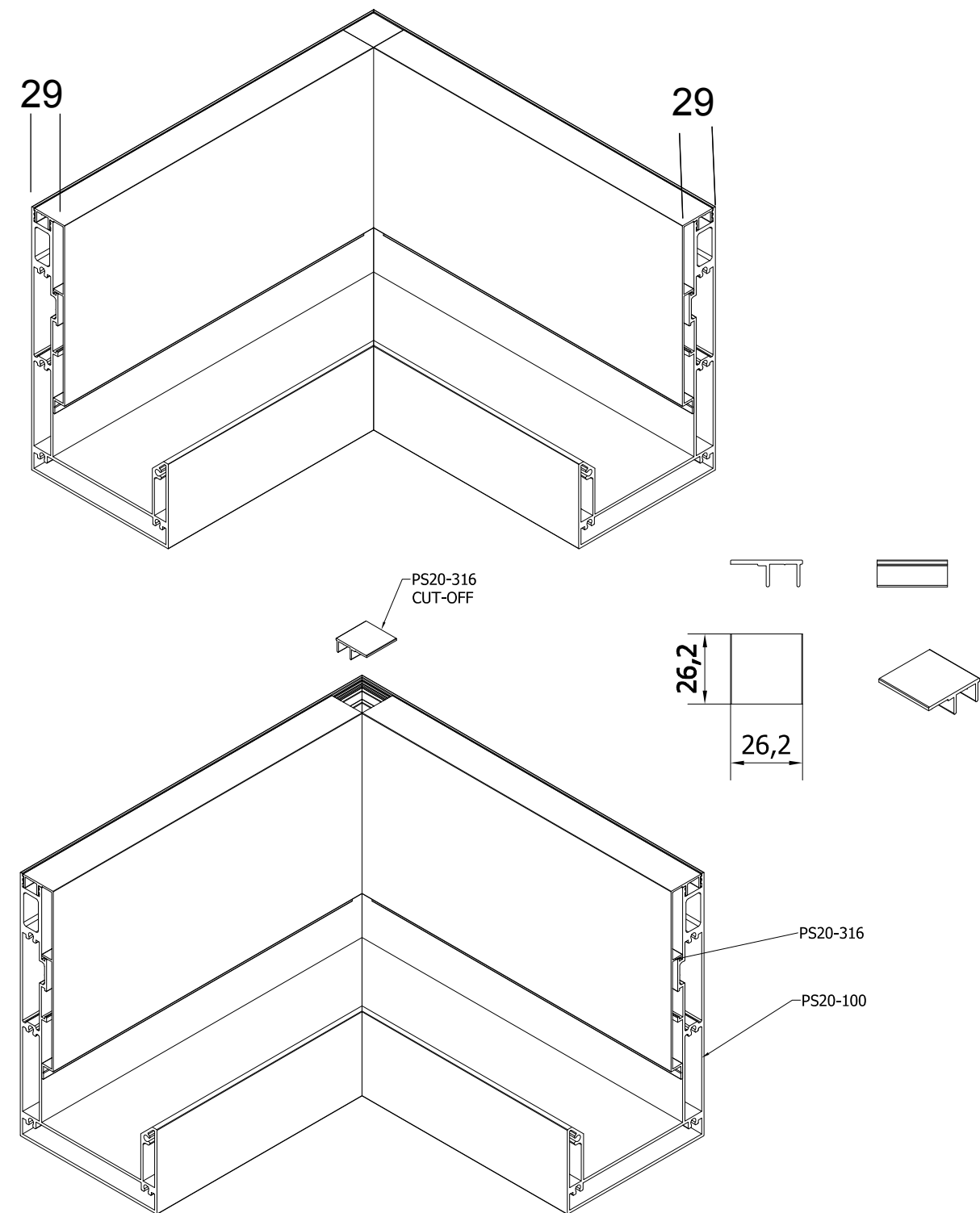


Pair of side covers for fixed louver PS20-200

|                |                          |
|----------------|--------------------------|
| Code   Κωδικός | PS20-316                 |
| Weight   Βάρος | 827 gr/m                 |
| Description    | Fix Louver Guide         |
| Περιγραφή      | Οδηγός Σταθερής Περσίδας |

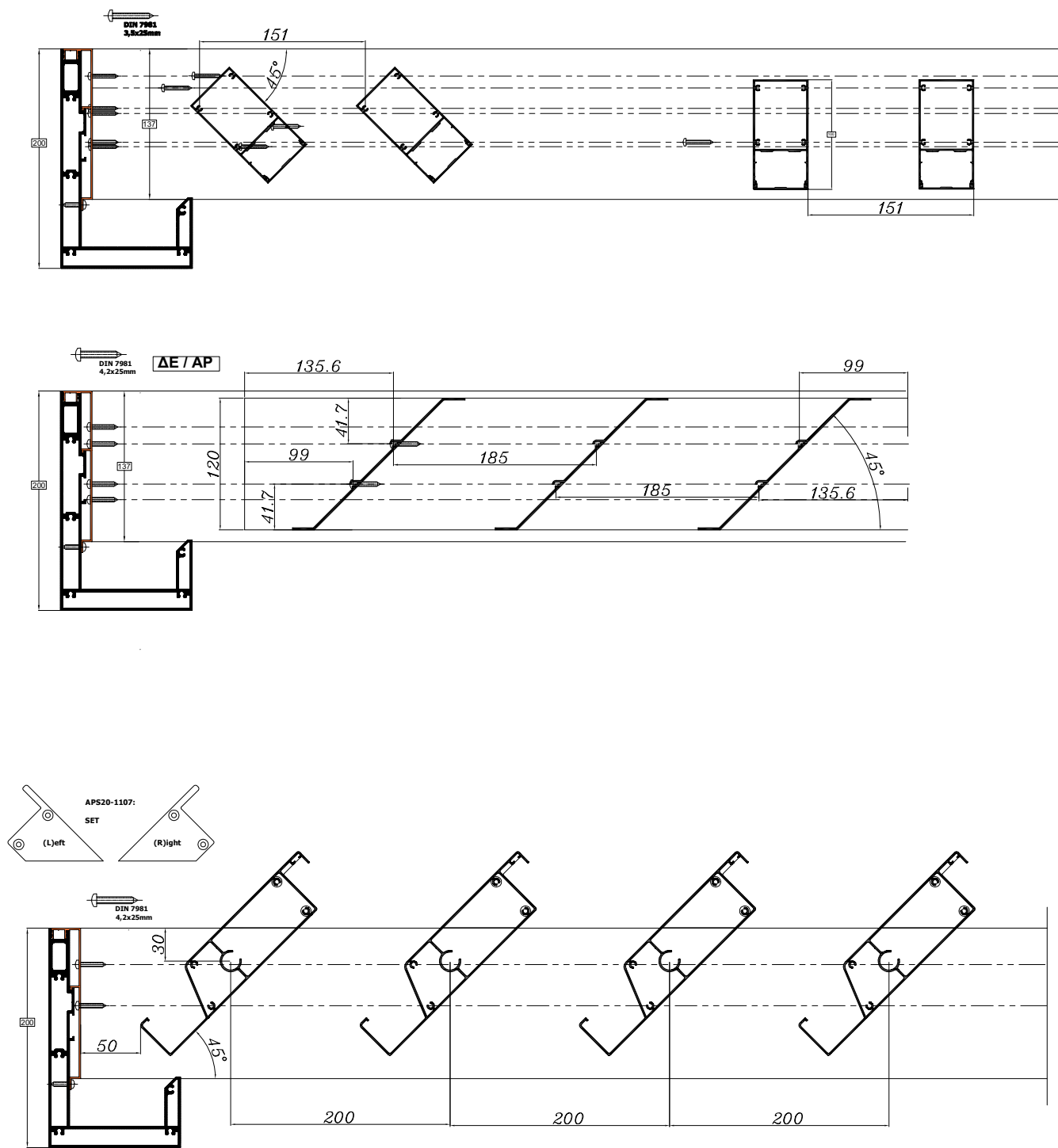


PS-20 FREEDOM-Pergola PS20-316 Ξελούρισμα για γωνιακή σύνδεση Καπακιών Σταθερών  
PS-20 FREEDOM-Pergola PS20-316 CUT-OFF for corner connection of Fixed Covers



FIXED LOUVERS WITH PS20-100  
ΣΤΑΘΕΡΕΣ ΠΕΡΣΙΔΕΣ ΜΕ ΤΗΝ PS20-100

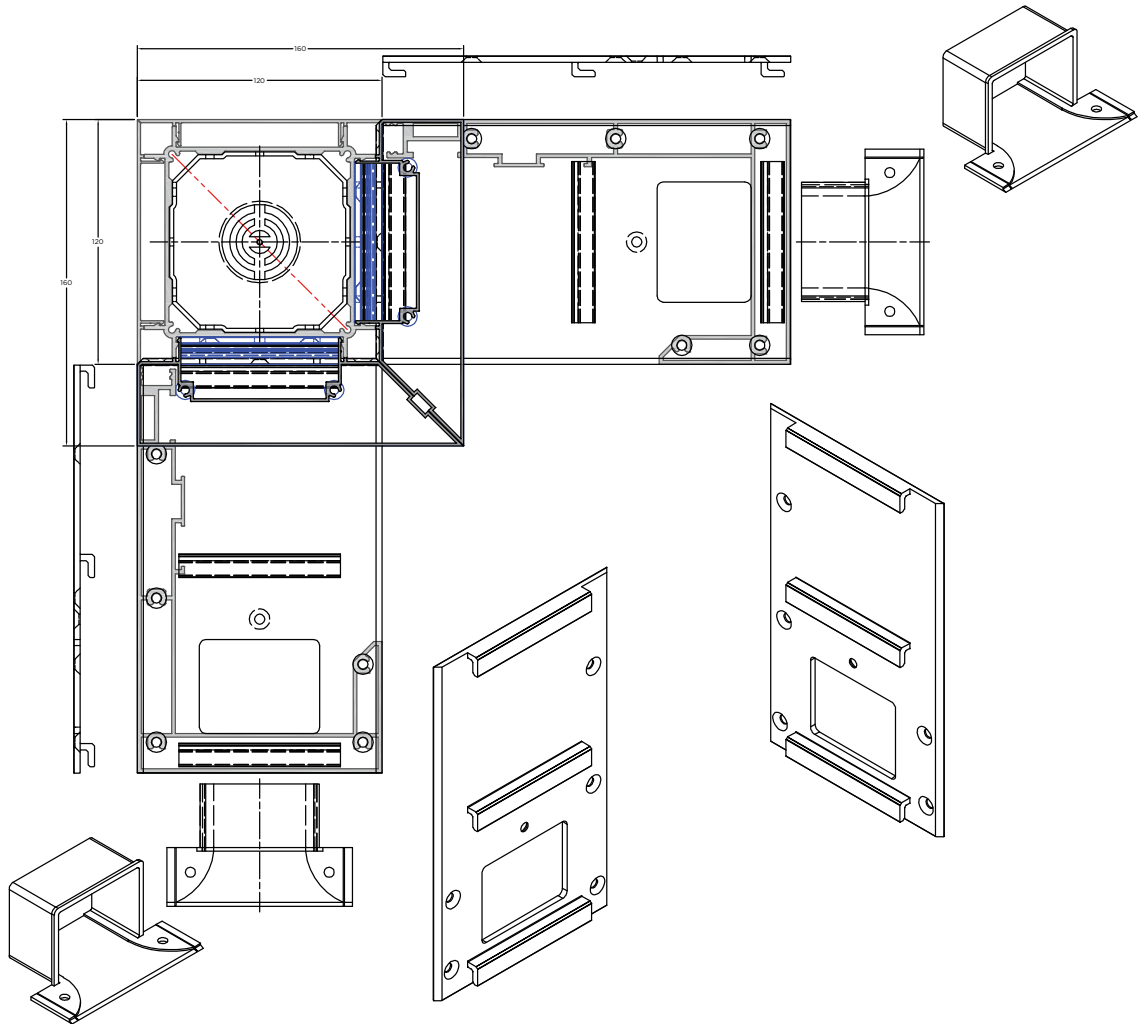
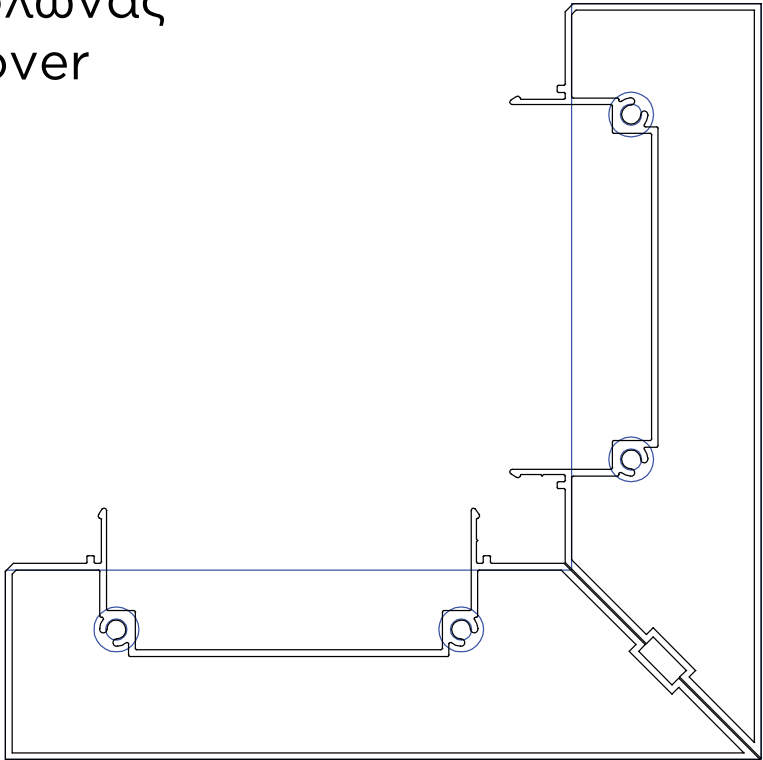
INDICATIVE HOLE CUTTINGS  
ΕΝΔΕΙΚΤΙΚΕΣ ΚΟΠΕΣ



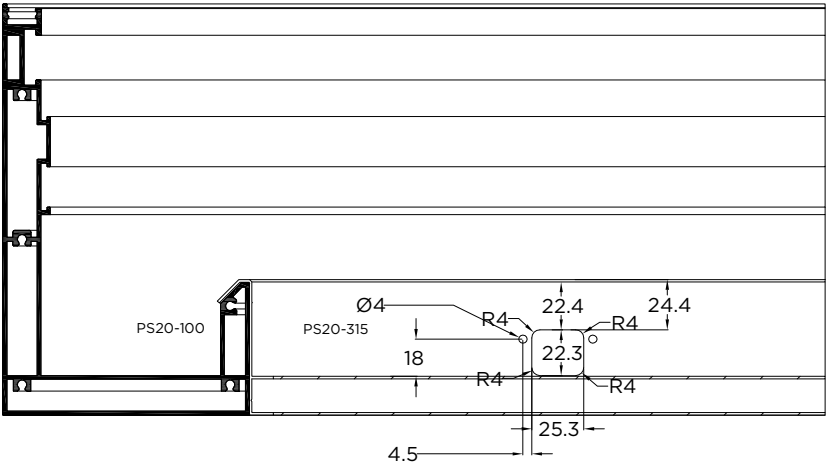
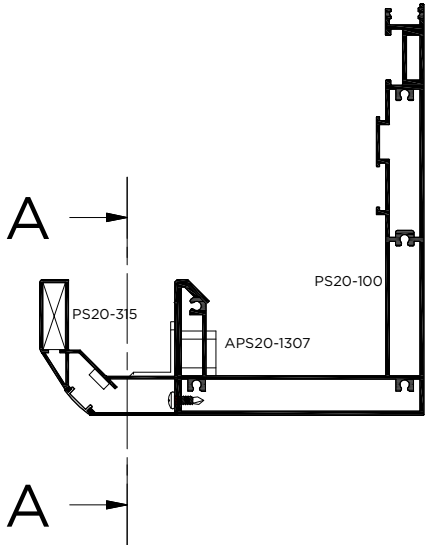
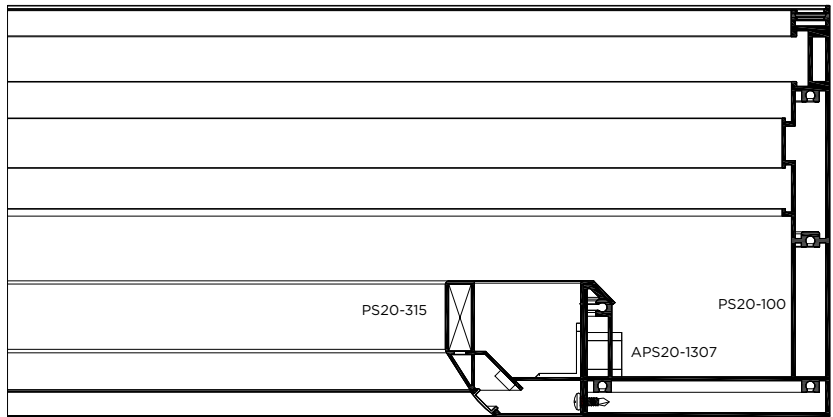
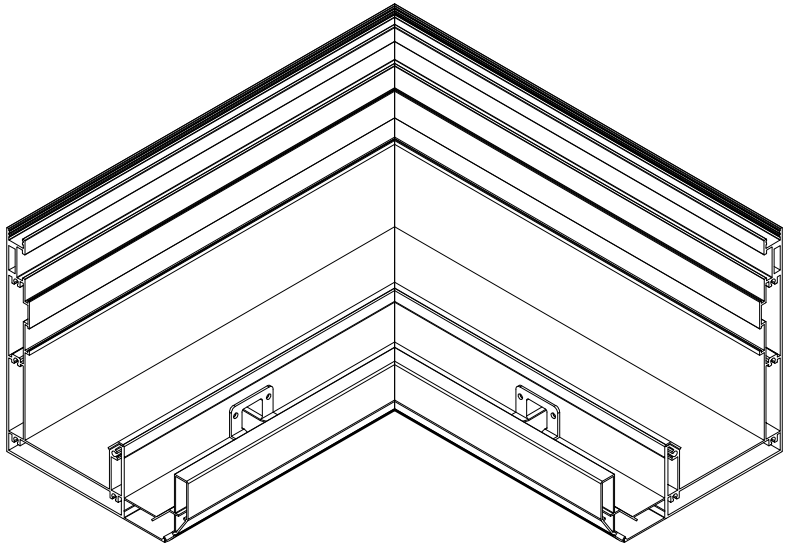


Ενισχυτικό Καπάκι Κολώνας  
Extra Column Side Cover

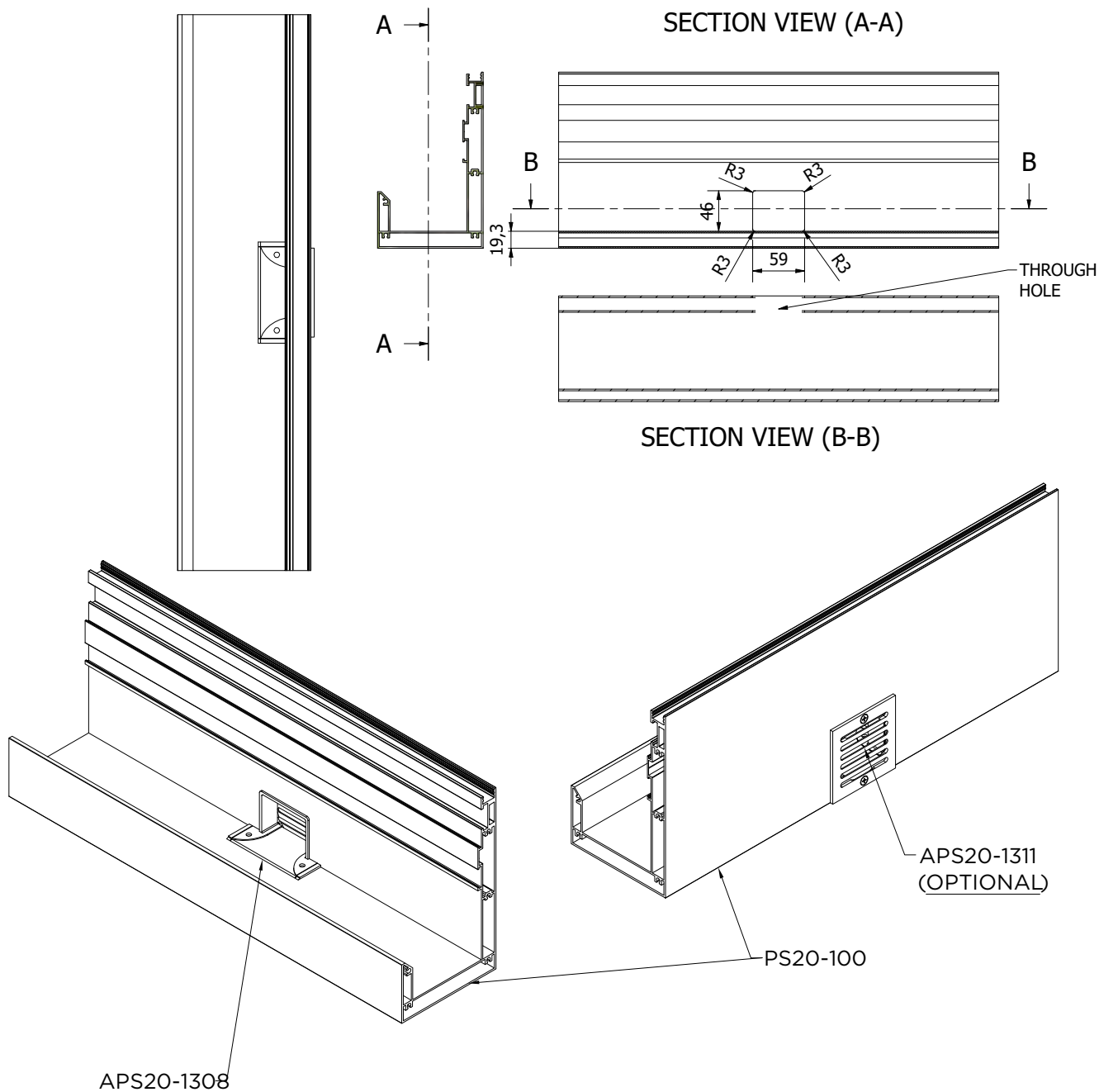
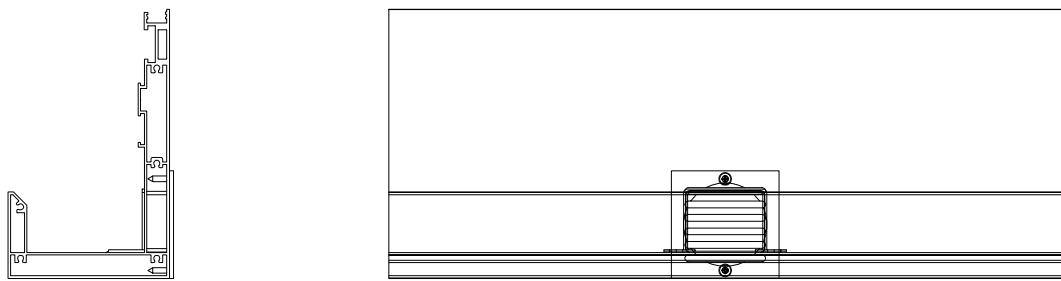
PS20-311



ΣΥΝΔΕΣΗ ΤΡΑΒΕΡΣΑ ΜΕ LED + APS20-1307  
TRANSOM FIXATION WITH LED PS20-315 + APS20-1307



Υδροροή σε τυχαία πλάγια θέση οροφής περγκόλας  
Drainage in random place of Freedom pergola rooftop



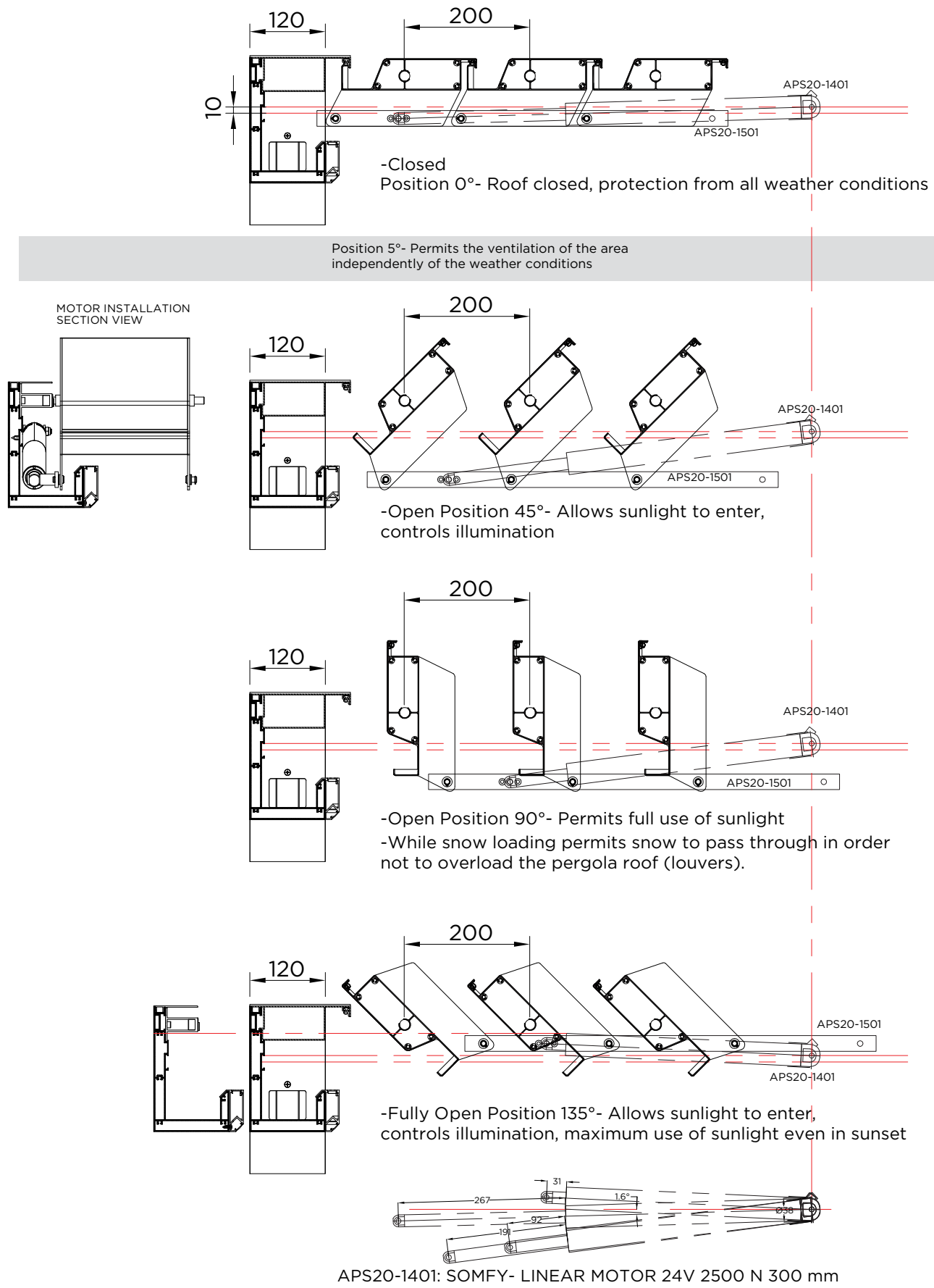
**Freedom**  
Bioclimatic  
Pergola

**ALUMINCO**

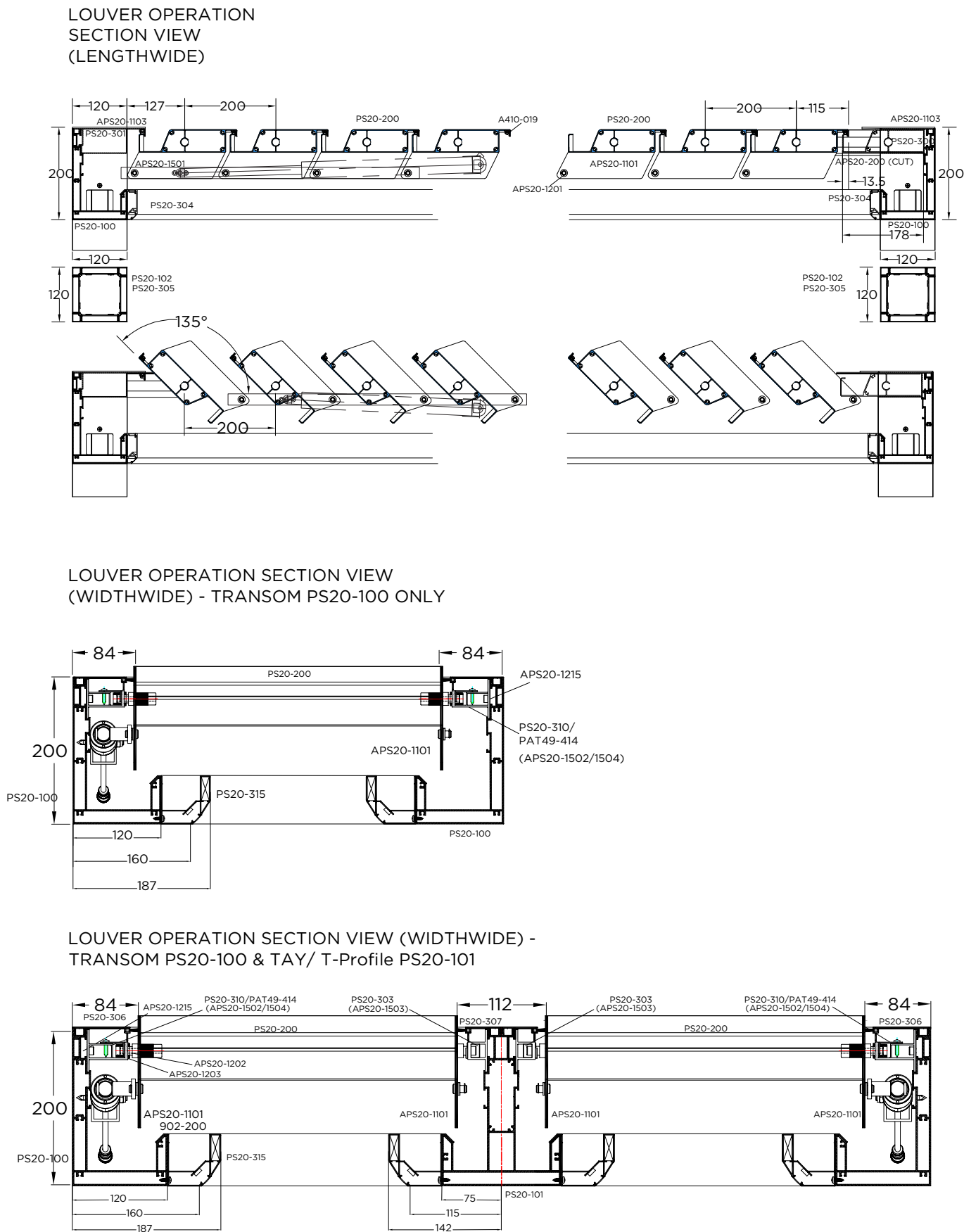
**ΦΟΡΤΙΑ ΠΕΡΓΚΟΛΑΣ /  
PERGOLA LOADS**



ΛΕΙΤΟΥΡΓΙΑ ΜΟΤΕΡ - ΘΕΣΕΙΣ ΠΕΡΣΙΔΩΝ  
MOTOR OPERATION - LOUVER ANGULAR POSITION



ΒΑΣΙΚΕΣ ΤΟΜΕΣ ΛΕΙΤΟΥΡΓΙΑΣ ΠΕΡΣΙΔΩΝ  
LOUVER OPERATION BASIC SECTION VIEWS



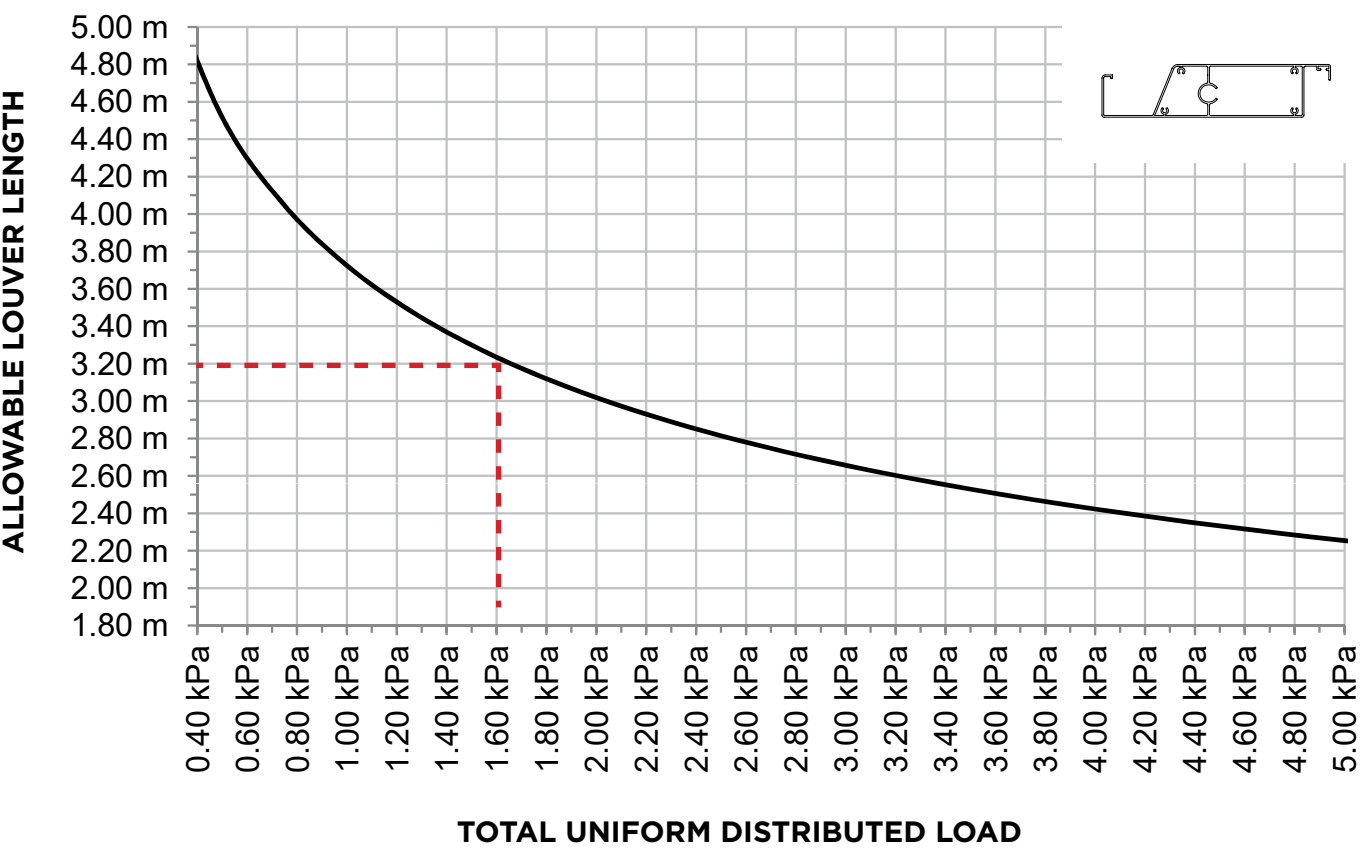
NOTES ON CHARTS

- Allowable deflection of L/200 is considered for all beams.
- Self weight of pergola frames and louvers taken up by each member is already considered.
- The Load considered is a surface distributed load applied uniformly on the pergola canopy surface.
- The Load refers to any factored or unfactored load or any combination of loads of different nature (dead load, live load, wind load, snow load, earthquake load) that is specified for the project.
- Louver (PS20-200) Chart defines maximum allowable louver length with respect to total load.
- Main Transom (PS20-100) Chart defines maximum allowable louver length per main beam length for various load values.
- T-Profile (PS20-101) Chart defines maximum allowable louver length on each side of T-Profile, per T-Profile length for various load values.
- Secondary T-Profile (PS20-101) Chart defines maximum allowable T-Profile length per secondary T-Profile length for various load values. This Chart is only valid when a T-Profile is installed. In Typologies without T-Profiles, the secondary T-Profile length is limited by louver length.

EN1932-WIND RESISTANCE CLASSES ON AWNINGS

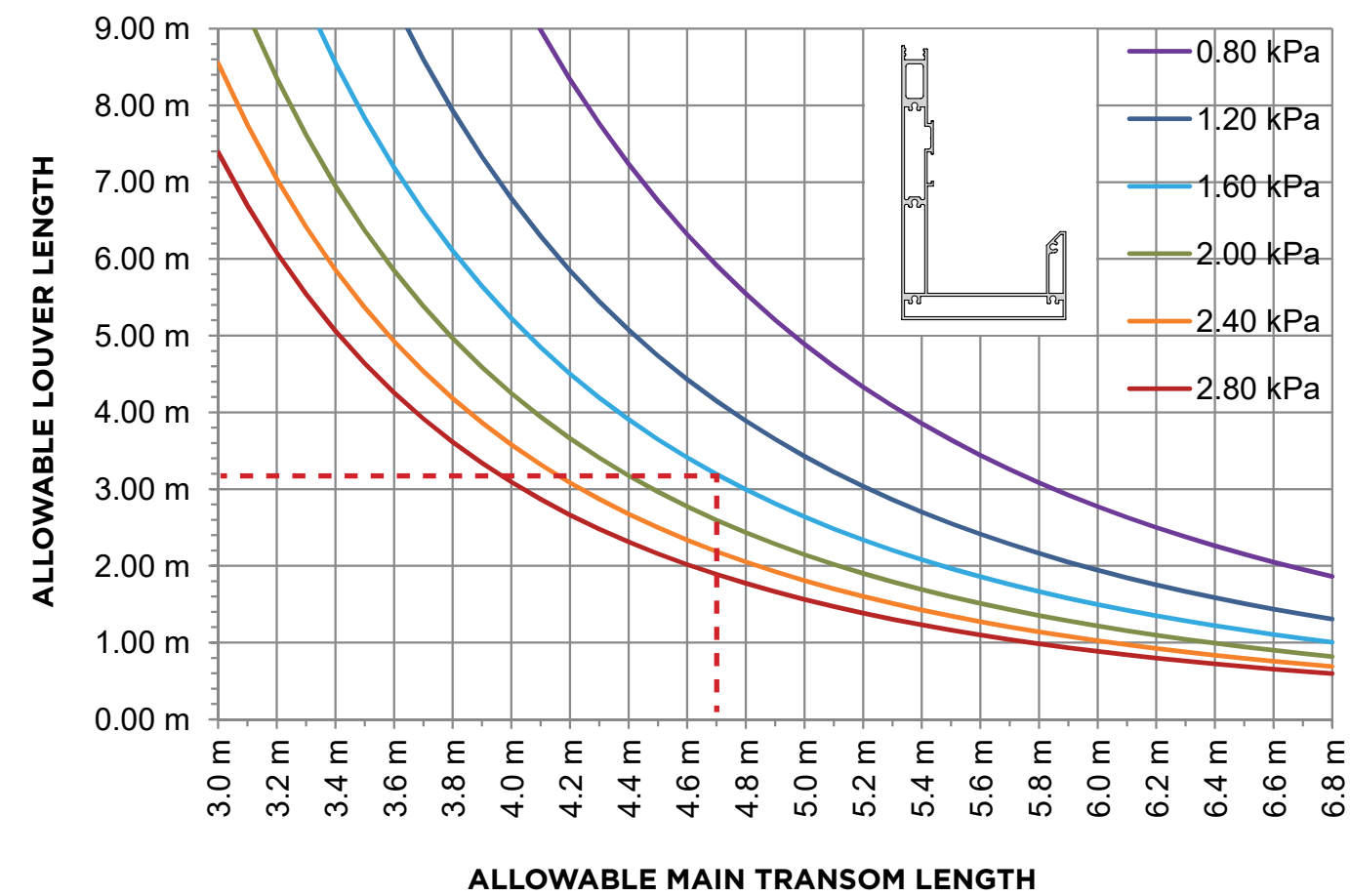
|                                                     | Classes |    |     |     |     |     |     |
|-----------------------------------------------------|---------|----|-----|-----|-----|-----|-----|
|                                                     | 0       | 1  | 2   | 3   | 4   | 5   | 6   |
| Nominal pressure $p_N$ (N/m <sup>2</sup> )          | < 50    | 50 | 70  | 100 | 170 | 270 | 400 |
| Safety pressure $p_S = 1,5 p_N$ (N/m <sup>2</sup> ) | < 75    | 75 | 100 | 150 | 250 | 400 | 600 |

LOAD CHART OF LOUVER PS20-200

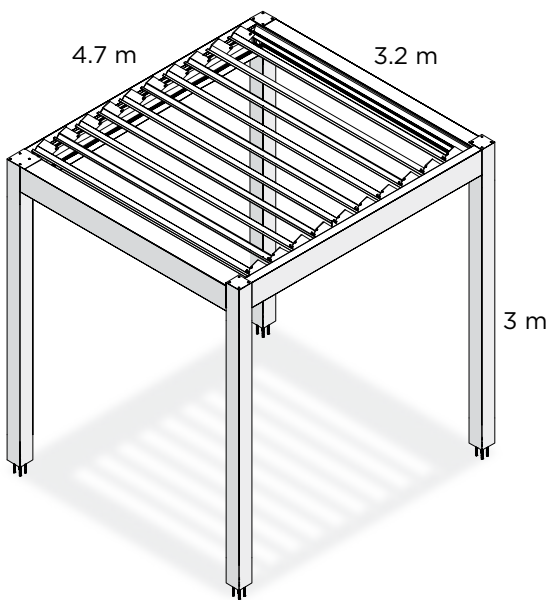


--- Example of total load case of 1.6 kPa

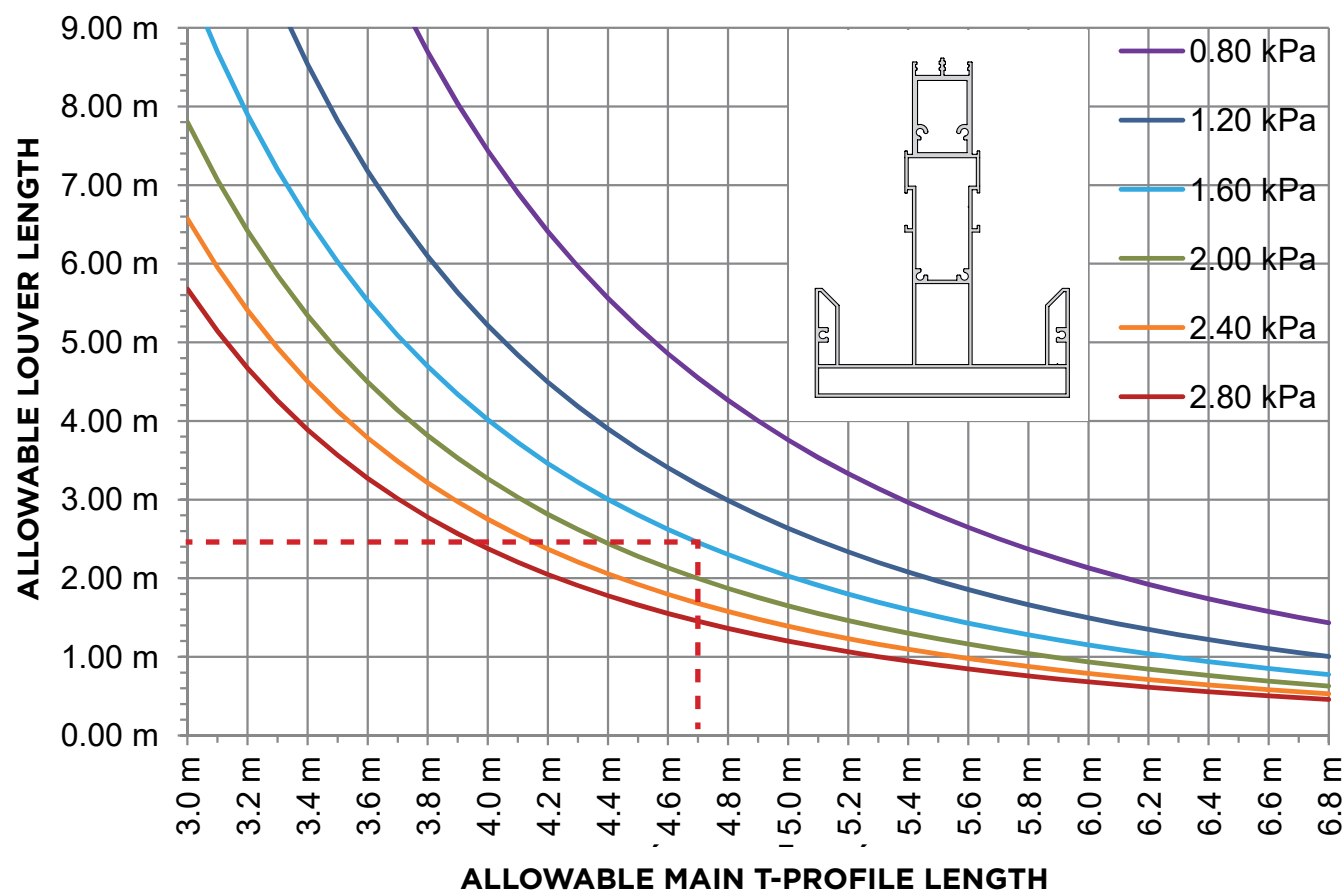
LOAD CHART OF LOUVER PS20-100



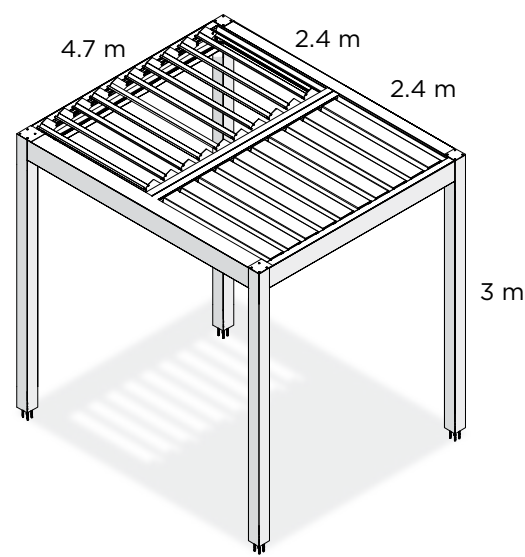
--- Example of total load case of 1.6 kPa (without T-Profiles)



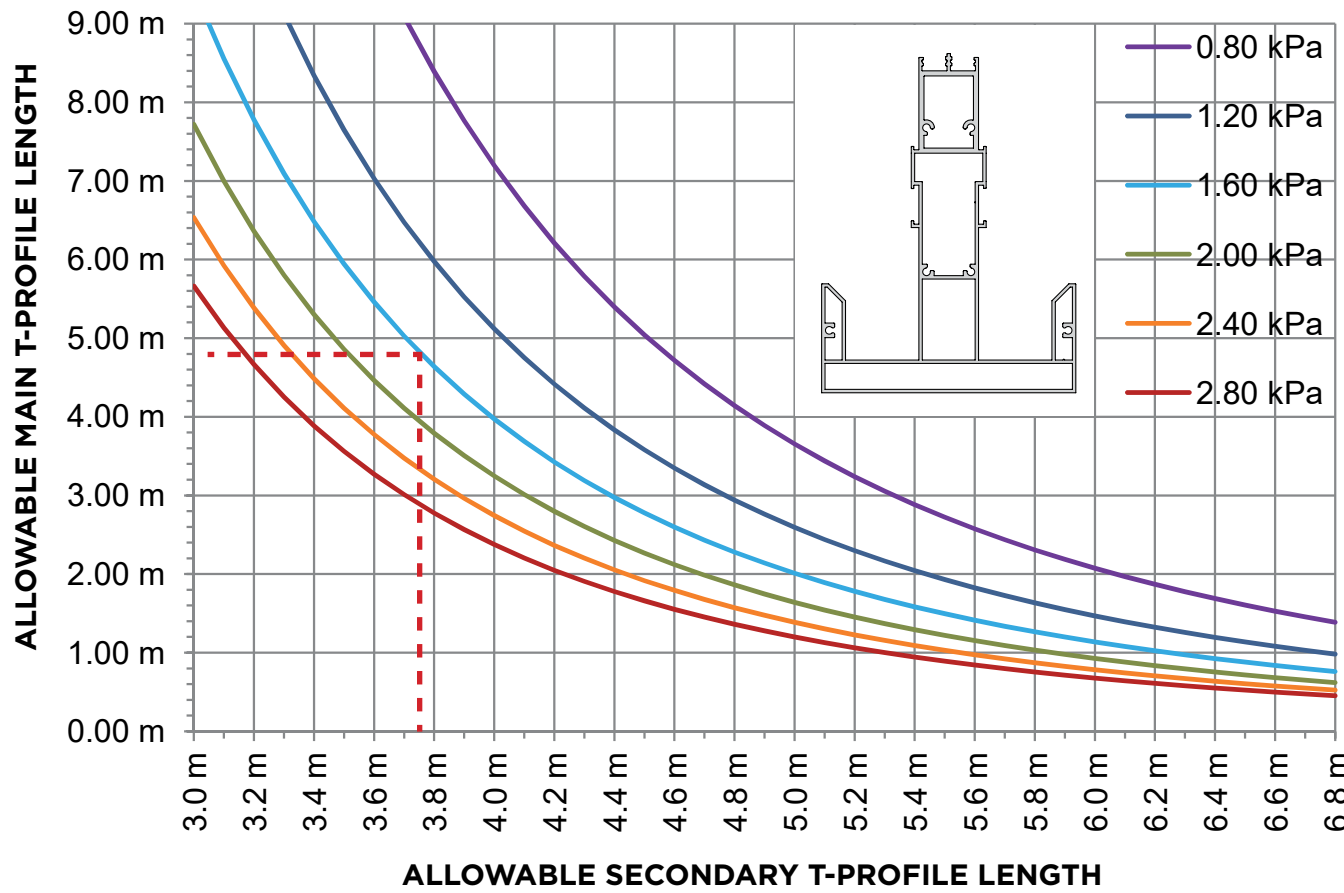
LOAD CHART OF LOUVER PS20-101 (main T-Profile)



--- Example of total load case of 1.6 kPa (using T-Profile)

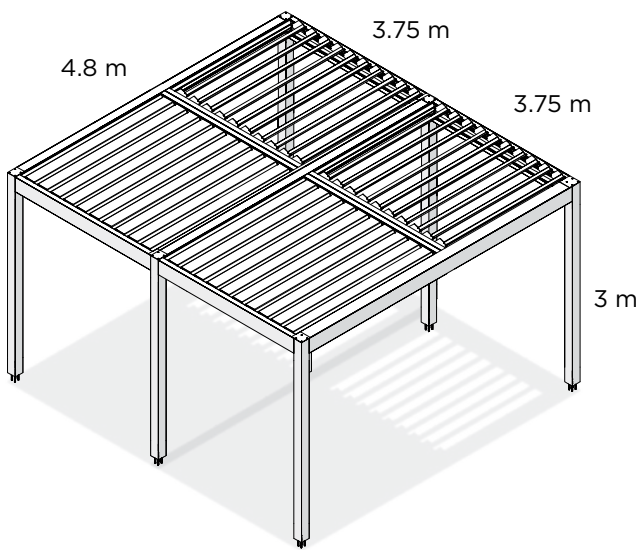


LOAD CHART OF LOUVER PS20-101 (secondary T-Profile)



--- Example of using total load 1.6 kPa (using 2 T-Profiles in cross position)

**Note:**  
The main T-Profile in this typology is always connected between the Posts. The secondary T-Profile is then connected to the main T-Profile in cross position from main transom to the opposite main transom.



Typical Bioclimatic Pergola dimensions with (4) Posts - NO T-Profile:

- 1) Total Load Case 0,6KPa=60kgf/m<sup>2</sup> → MAX. DIM: 5.7m(L)\*4.2m(W)\*3m(H)
- 2) Total Load Case 1KPa=100kgf/m<sup>2</sup> → MAX. DIM: 5.1m(L)\*3.7m(W)\*3m(H)
- 3) Total Load Case 2KPa=200kgf/m<sup>2</sup> → MAX. DIM: 4.5m(L)\*3m(W)\*3m(H)
- 4) Total Load Case 3KPa=300kgf/m<sup>2</sup> → MAX. DIM: 4m(L)\*2.6m(W)\*3m(H)

## Συντήρηση του αλουμινίου

Τόσο το ανοδιωμένο όσο και το ηλεκτροστατικά βαμμένο αλουμίνιο, πρέπει να καθαρίζονται σε τακτά διαστήματα. Σε ημιαστικές μη παραθαλάσσιες περιοχές που δεν επηρεάζονται από επιθετικά περιβαλλοντικά φαινόμενα όπως ατμοσφαιρική ρύπανση ή αλατώδες περιβάλλον, ο καθαρισμός μπορεί να γίνεται μαζί με τον καθαρισμό των τζαμιών. Για τον καθαρισμό του αλουμινίου συνιστάται η χρήση χλιαρού νερού και ενός «μαλακού» απορρυπαντικού που να μην είναι όξινο και να μην περιέχει αμμωνία. Μετά, πρέπει να ξεβγάζεται επιμελώς με νερό και να στεγνώνεται με ένα μαλακό απορροφητικό πανί. Σε αστικές ή παραθαλάσσιες περιοχές, ο καθαρισμός του αλουμινίου πρέπει να γίνεται πιο συχνά και με πολύ μεγάλη επιμέλεια. Οι επιφάνειες αλουμινίου που δεν εκτίθενται στην βροχή πρέπει να καθαρίζονται με μεγαλύτερη συχνότητα από τις εκτεθειμένες στην βροχή. Αν το νερό και τα μαλακά απορρυπαντικά δεν επαρκούν για τον καλό καθαρισμό του αλουμινίου, υπάρχουν και ειδικά για το αλουμίνιο απορρυπαντικά. Αυτά τα απορρυπαντικά περιέχουν ελαφρώς λειαντικά ψήγματα και μπορούν να χρησιμοποιηθούν σε συνδυασμό με ένα συνθετικό πανί καθαρισμού. Σε όλες τις περιπτώσεις είναι πολύ σημαντικό να ξεπλένονται καλά οι επιφάνειες και να στεγνώνονται επιμελώς, ειδικά οι γωνίες και τα προφίλ που έρχονται σε επαφή με το έδαφος. Για την προστασία και την επιμήκυνση του κύκλου ζωής του αλουμινίου, όλα τα προφίλ που βάφονται στα βαφεία της ALUMINCO υποβάλλονται σε βελτιωτική επεξεργασία επιφάνειας SEASIDE CLASS, διαθέσιμο από την ALUMINCO.

## Aluminium maintenance

Both anodised and painted aluminium should be cleaned on a regular basis. For urban not littoral areas that are not subjected to aggressive elements like air pollution or salty air, it is sufficient to clean the aluminium whenever you clean the glass. Warm water should be used with a dilute of a non-aggressive, non-acetous detergent without ammonia for cleaning the aluminium. Then you should thoroughly rinse the aluminium with clear water and dry using an absorbing cloth. In urban areas or areas near to the sea, the aluminium should be cleaned more often and more thoroughly. Areas that are not exposed to rainfall should be cleaned more frequently than other surfaces. If water and mild detergents are not enough to clean the aluminium fenestrations there are detergents that have been specially developed for aluminium surfaces. These detergents contain light abrasive elements and can be used with a synthetic cleaning cloth. In all cases it is important to completely rinse surfaces with clear water and dry them thoroughly, especially the corners and the bottom profile. In order to protect and increase the life cycle of the aluminium, it may be treated with a very thin clear coat of water resistant film available from ALUMINCO.



Η χρήση σιλικόνης είναι υποχρεωτική σε όλα τα σημεία της κατασκευής στα οποία έχουμε αρμούς, στοιχεία στήριξης και συνδέσεις εξαρτημάτων μεταξύ τους και από τα οποία υπάρχει πάντα ο κίνδυνος να περάσει το βρόχινο νερό με κατεύθυνση προς το εσωτερικό της πέργκολας.

The use of silicone is mandatory in all parts of the construction in which we have joints, support elements and connections of parts between them and through which there is always a risk of rainwater passing towards the inside of the pergola.

## Structural Shading System of Bioclimatic Pergola - Testing Norms:

- Euro code 1990:2000 – Basis of Structural design
- Euro code 1990-1-1-1:2000 – General Actions on Structures
- Euro code 1999-1-1:2000 – Design of Aluminum Constructions
- Euro code 1990-1-1-3:2003 – Snow Load
- Euro code 1990-1-1-4:2003 – Wind Actions

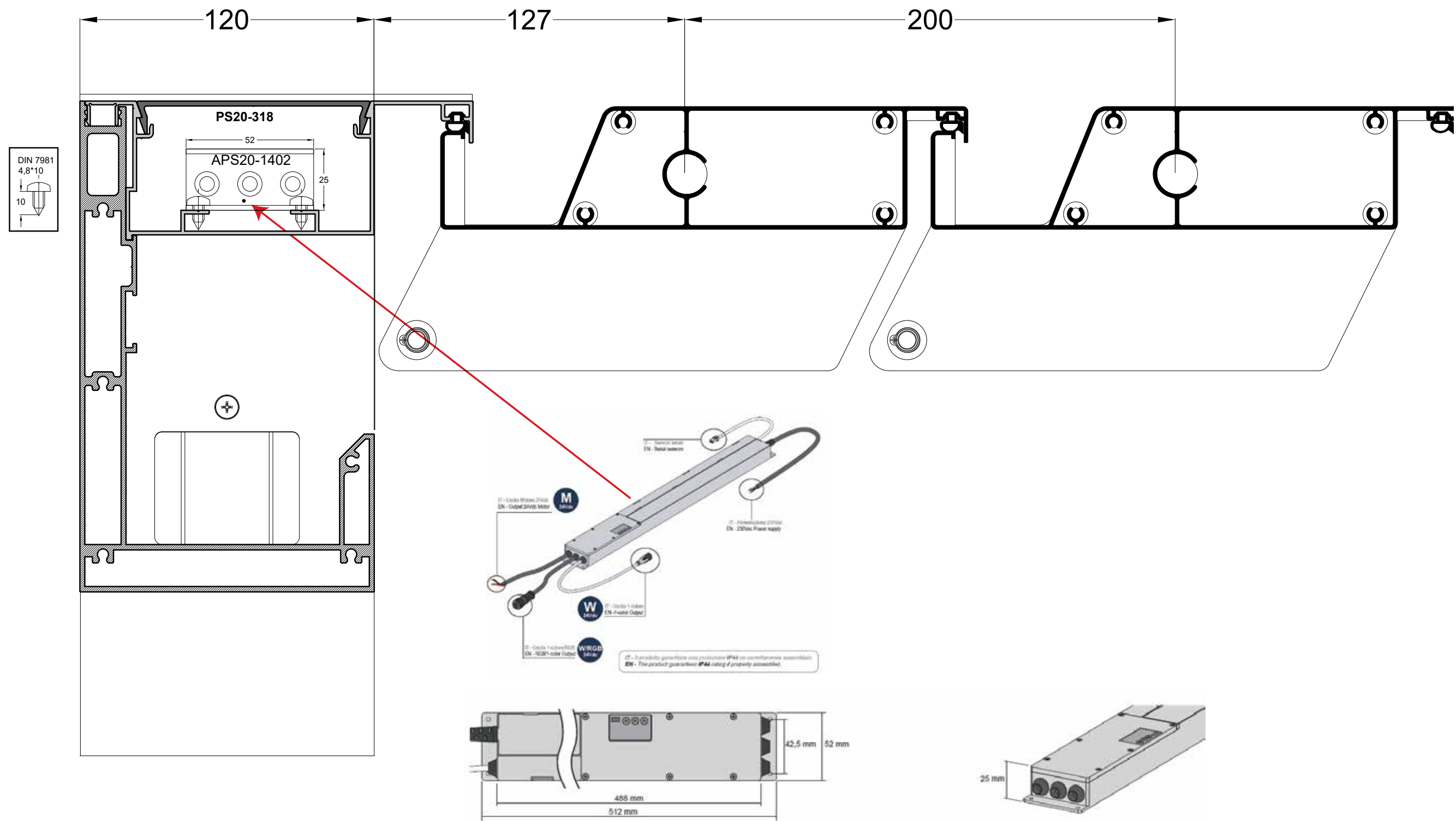
- Greek Anti Seismic Regulation (E.A.K 2003)
- EN 1933:2013 – Resistance to Load due to Water Accumulation

## Louvers'/ Slats' - Testing Norms:

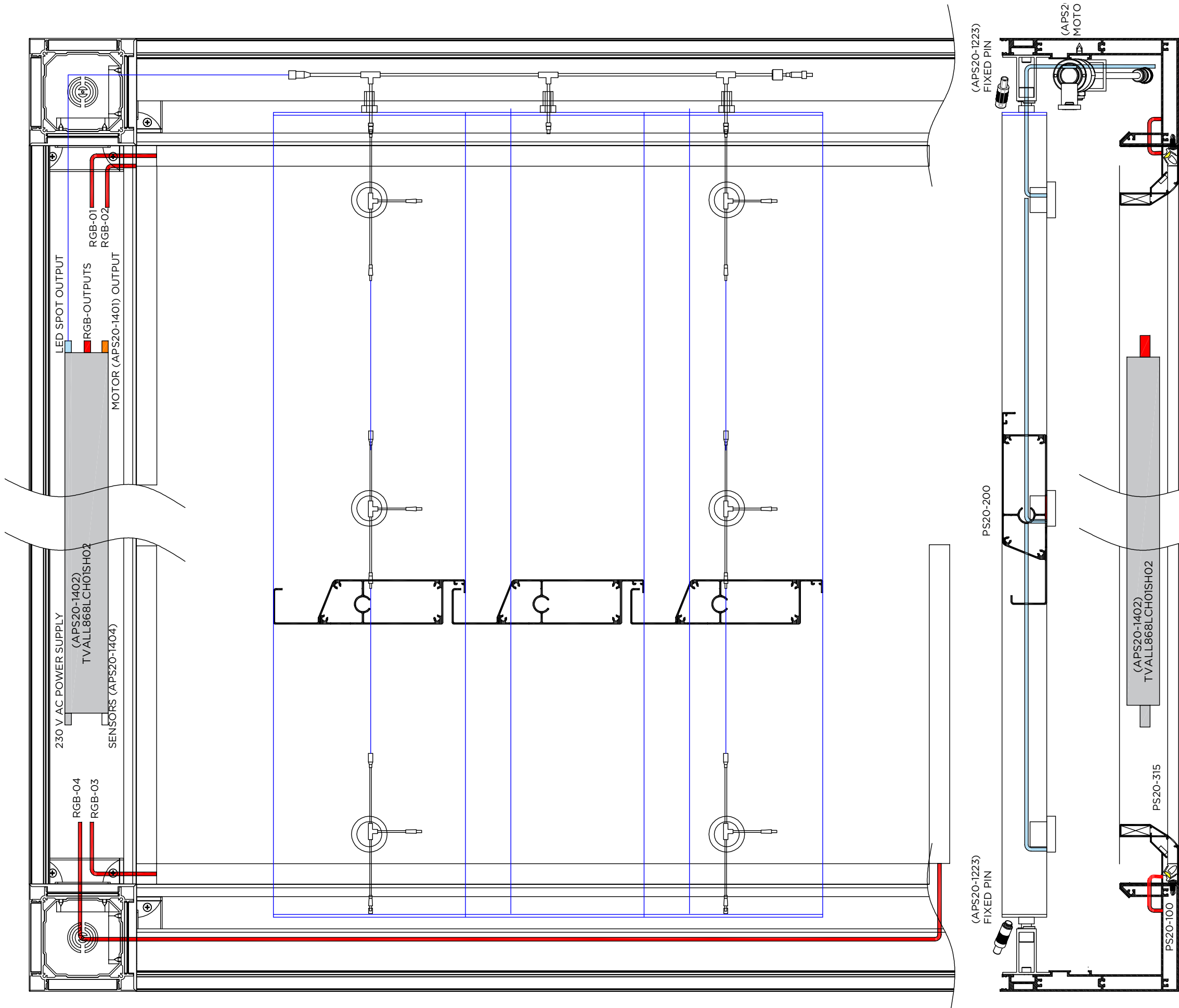
- EN 1932:2013 & EN13561:2015 – Wind Resistance of Awnings & External Blinds
- EN 12833:2013 – Snow Load on Awnings & External Blinds

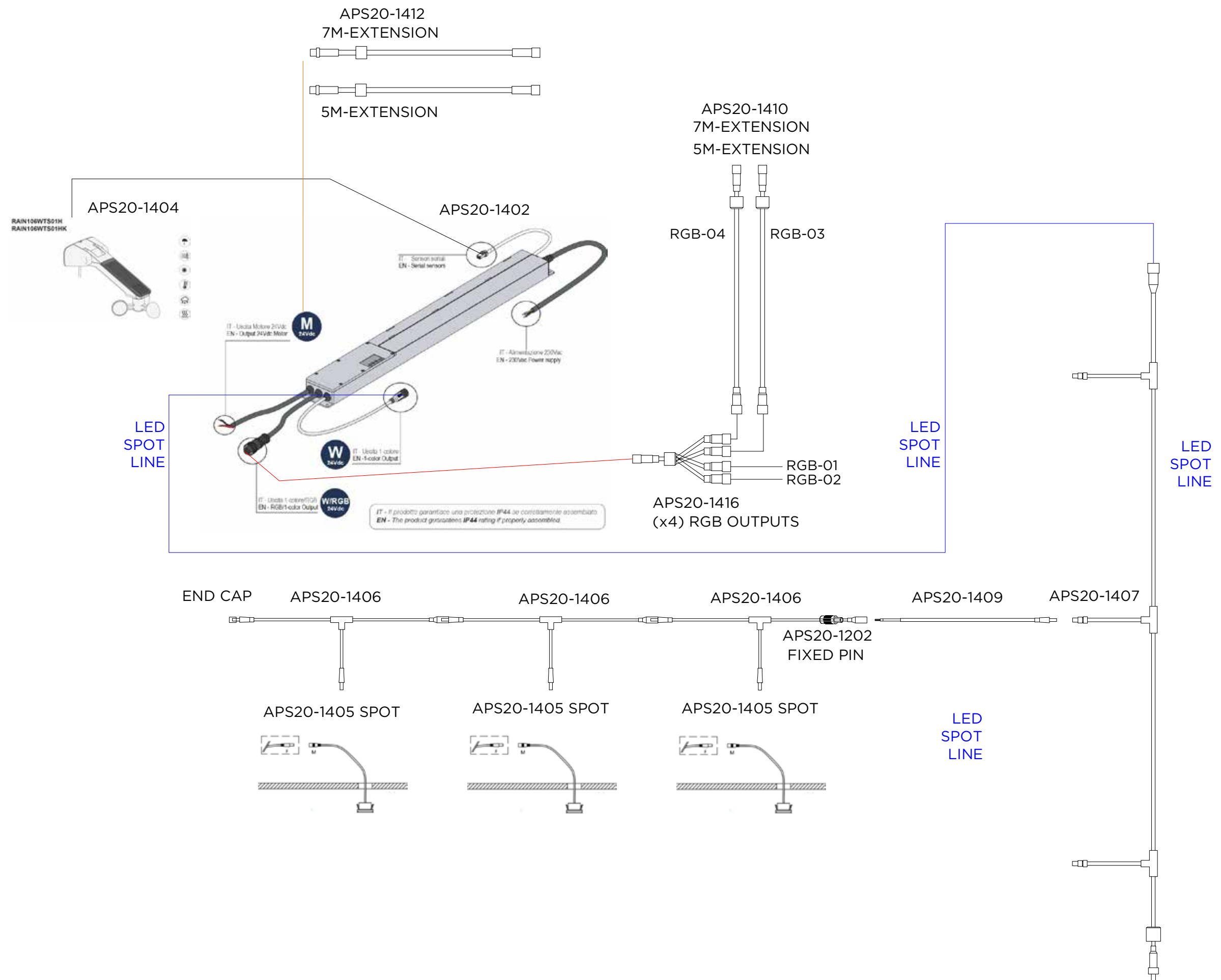
BIO-Climate Pergola Profiles: (1) AL 6063-T66, and of (2) AL 6060-T66 alloy.  
BIO-Climate Pergola (Non-Electrical) Accessories: (1) AL 6063-T66, and of (2) Stainless Steel-316 and (3) and all electrical accessories are waterproof IP67.

ΤΟΠΟΘΕΤΗΣΗ ΤΟΥ MCU (Motor Control Unit) ΕΣΩΤΕΡΙΚΑ ΤΟΥ PS20-301  
MCU INSTALLATION (Motor Control Unit) INTERNAL TO PS20-301











320 11 Inofita Viotia, Greece

T. +30 22620 47000

F. +30 22620 47090

[www.aluminco.com](http://www.aluminco.com)

[info@aluminco.com](mailto:info@aluminco.com)