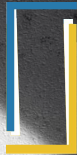


GHID DE ASAMBLARE

PERGOLA BIOCLIMATICA
ASTRA SMART

astra
shading

ASTRA SMART

astra shading

Elevating Homes,
Inspiring Lives.



ASTRA SHADING

Who We Are?

(EN)

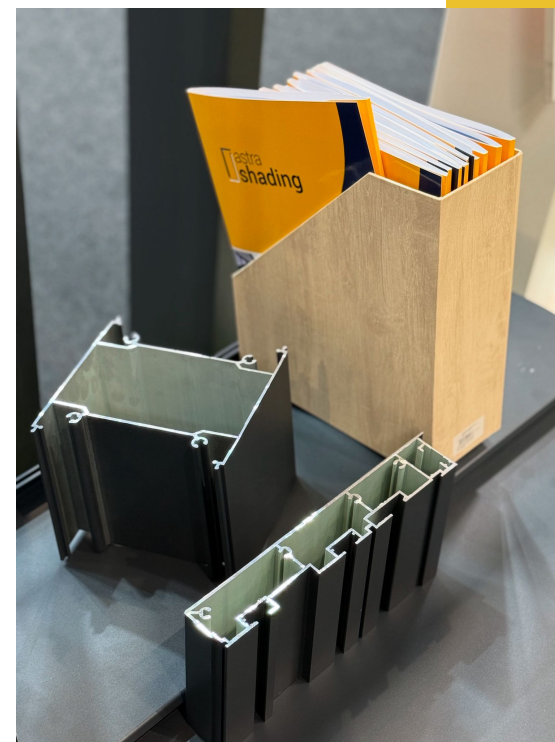
At Astra Shading, we believe that outdoor spaces should combine beauty, comfort, and functionality. Our mission is to create systems that turn terraces and gardens into welcoming spaces for every season.

We design and manufacture premium pergolas, glass enclosures, zip screens, and aluminum fences — all made in Romania to European standards. With personalized solutions and dedicated support, we work closely with dealers, builders, and architects across Europe.

(RO)

La Astra Shading, credem că spațiile exterioare trebuie să îmbine eleganța, confortul și funcționalitatea. Misiunea noastră este să oferim sisteme care transformă terasele și grădinile în locuri plăcute, în orice anotimp.

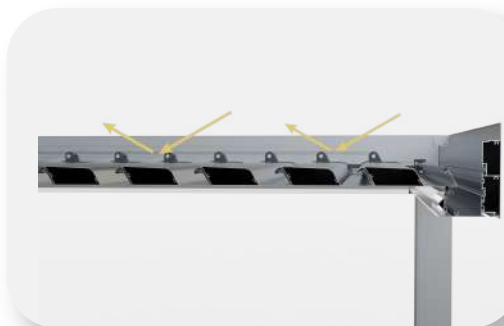
Proiectăm și producem în România pergole premium, închideri din sticlă, zip screen-uri și garduri din aluminiu, la standarde europene. Oferim soluții personalizate și suport dedicat partenerilor din întreaga Europă — distribuitori, montatori și arhitecți.



CONTROLUL LUMINII ȘI UMBREI

Cantitatea de lumină solară poate fi ușor controlată prin reglarea unghiului panourilor. Umbra poate fi creată prin mutarea panourilor într-o poziție mai închisă în timpul orelor în care razele soarelui sunt cele mai intense.

The amount of daylight can be easily controlled by adjusting the angle of the panels. During the hours when the sun's rays are intense, shade can be created by turning the panels more closed.



0°

Oferă protecție împotriva tuturor condițiilor meteorologice. Acoperișul rămâne închis.

Provides protection from all weather conditions the roof remains closed.

CIRCULAȚIA AERULUI ȘI CONTROLUL CĂLDURII

Deschiderea panourilor pe vreme caldă crește circulația naturală a aerului, creând o atmosferă răcoroasă. Iarna, închiderea panourilor previne fluxul de aer rece și asigură izolație termică.

Opening the panels in hot weather creates a cool atmosphere by increasing natural air circulation. In winter, the panels are closed to prevent cold air flow and provide thermal insulation.



5°

Asigură ventilația zonei chiar dacă plouă sau ninge

Provide the ventilation of the area even if it is raining or snow

PROTECȚIE ÎMPOTRIVA PLOII ȘI VÂNTULUI

Pe vreme ploioasă, panta panourilor este mărită pentru a direcționa fluxul de apă și a menține interiorul uscat. Pe vreme de vânt, poziționarea panourilor la unghiul corespunzător reduce efectul vântului.

In rainy weather, increasing the tilt of the panels directs the flow of water keeping the interior dry. In windy conditions, positioning the panels at the right angle reduces the impact of the wind.



45°

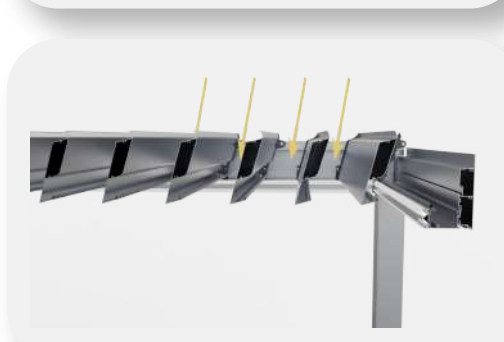
Permite luminii solare să pătrundă, controlați în continuare iluminarea.

Allow the sunlight to enter, still controls the lighting.

SOLUȚIE ECONOMISITOARE ȘI ECOLOGICĂ

Optimizarea luminii naturale și a circulației aerului reduce consumul de energie. Dependența de sistemele de aer condiționat și încălzire scade, creând un spațiu de locuit ecologic.

Optimizing natural light and air circulation reduces energy consumption. Dependence on air conditioning and heating systems decreases, creating and eco-friendly living spaces.



105°

Permite utilizarea completă a luminii solare

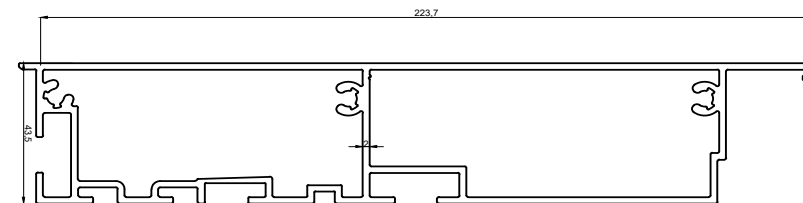
Permits full use of the sunlight

Profile sistem / System Profiles



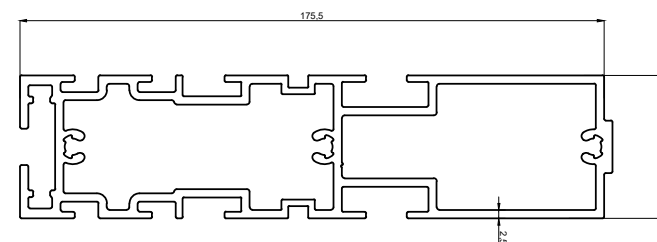
Profil paze / Gutter Beam Profile

Cod Produs / Product Code	4477
Greutate / Weight	3,637 kg/m



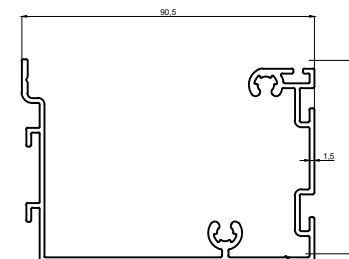
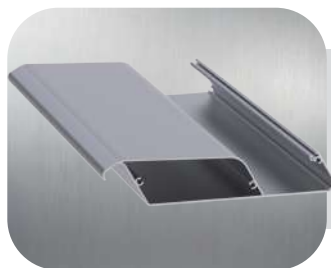
Profil paze dubla / Rail Profile

Cod Produs / Product Code	4476
Greutate / Weight	4,442 kg/m



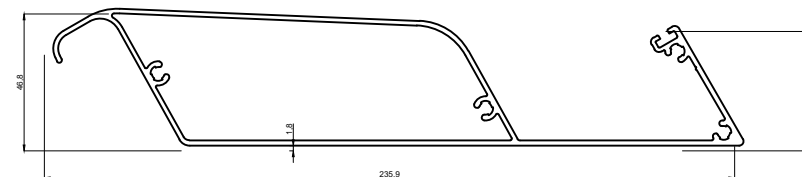
Profil igheab / Gutter Profile

Cod Produs / Product Code	4482
Greutate / Weight	1,322 kg/m

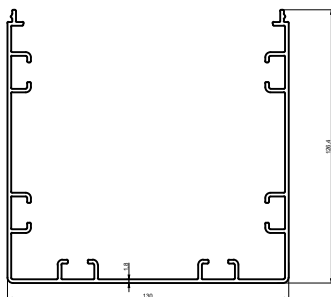


Profil lamela / Panel Profile

Cod Produs / Product Code	4478
Greutate / Weight	2,496 kg/m



Profile sistem / System Profiles



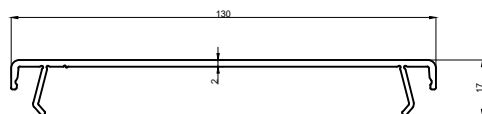
Profil stalp/ Base Profile

Cod Produs/ Product Code

4479

Greutate/ Weight

2,461 kg/m



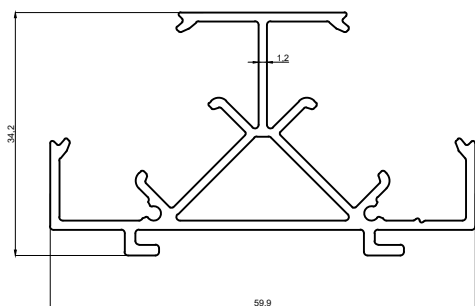
Profil capac stalp/ Base Cover Profile

Cod Produs/ Product Code

4480

Greutate / Weight

0,894 kg/m



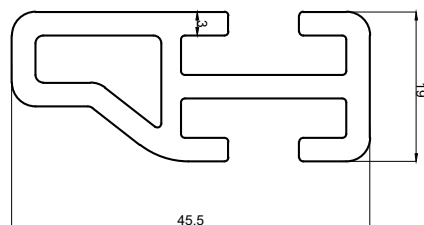
Profil dublu LED / Double LED Profile

Cod Produs/ Product Code

4481

Greutate / Weight

0,734 kg/m



Profil sina de ghidaj/ Tilt Drive Profile

Cod Produs/ Product Code

4118

Greutate / Weight

1,003 kg/m



Accesorii sistem / System Accessories

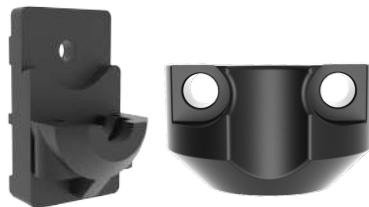
Engine Group



COD/Code
BUC./Piece

EBiO-9
1 PCS

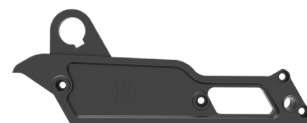
Panel Bearing Shaft Housing and Cover



COD/Code
BUC./Piece

EBiO-15
1 PCS

Tilt Panel Cover(Left)



COD/Code
BUC./Piece

EBiO-20
1 PCS

Tilt Panel Cover(Right)



COD/Code
BUC./Piece

EBiO-19
1 PCS

Water Drain Black



COD/Code
BUC./Piece

PRG-09-2
1 PCS

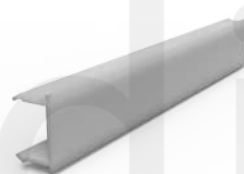
Led Corner Plastic



COD/Code
BUC./Piece

EBiO-28
1 PCS

Diffuser Cover



COD/Code
BUC./Piece

BiO-35
1 Metre

Special Pin Bushing



COD/Code
BUC./Piece

EBiO-13
2 PCS

Drive Pin



COD/Code
BUC./Piece

EBiO-14
2 PCS

Gutter Wick



COD/Code
BUC./Piece

ACT-12
100 Metre

Panel Wick



COD/Code
BUC./Piece

PAL-147
100 Metre

Panel Tilt Shaft



COD/Code
BUC./Piece

EBiO-21
2 PCS

Accesorii sistem / System Accessories

6000 Bearing



COD/Code
BUC./Piece

EBiO-18
2 PCS

Eco Corner Top
Cover



COD/Code
BUC./Piece

EBiO-2
1 PCS

Side Strut Inner Corner Connection



COD/Code
BUC./Piece

EBiO-4
1 PCS

Side Strut Outer Corner Cover



COD/Code
BUC./Piece

EBiO-5
1 PCS

Top Bracket for Vertical
Base



COD/Code
BUC./Piece

EBiO-3
1 PCS

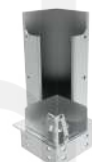
Base Top Connection Apparatus Without
Water Outlet and Support



COD/Code
BUC./Piece

EBiO-3-1
1 PCS

Corner Joint Top Connection Bracket
Water Outlet



(YANLARI DUVAR OLDUGUNDA KULLANILIR)

COD/Code
BUC./Piece

EBiO-3-3
1 PCS

Corner Joint Top Connection Apparatus
Without Water Outlet and Support



(YANLARI DUVAR OLDUGUNDA KULLANILIR)

COD/Code
BUC./Piece

EBiO-3-4
1 PCS

Pole to Ground Connection Bracket



COD/Code
BUC./Piece

EBiO-7
1 PCS

INTERMEDIATE POST AND GUTTER
CONNECTION BRACKET



COD/Code
BUC./Piece

EBiO-3-2
1 PCS

Double Top Connection Bracket
With Water Outlet



COD/Code
BUC./Piece

EBiO-30
1 PCS

Double Top Connection Bracket Without
Water Outlet and Support



COD/Code
BUC./Piece

EBiO-30-1
1 PCS

Accesorii sistem / System Accessories

Double Top Connection Rail Bracket



(EBİO-35 VE EBİO-36 İLE BİRLİKTE KULLANILIR.)

COD/Code
BUC./Piece

EBİO-30-2
1 PCS

Four-Way Top Connection Bracket



COD/Code
BUC./Piece

EBİO-31-2
1 PCS

Four-Way Connection Bracket With Bottom Water Outlet



COD/Code
BUC./Piece

EBİO-31
1 PCS

Four-Way ConBracket Without Bottom Water Outlet and Support



COD/Code
BUC./Piece

EBİO-31-1
1 PCS

Gutter Strut Joint Apparatus



COD/Code
BUC./Piece

EBİO-26
1 PCS

Gutter Post Connection Plate



COD/Code
BUC./Piece

EBİO-24
1 PCS

Wall Mounting Bracket Top



COD/Code
BUC./Piece

EBİO-27
1 PCS

Wall Mount Bracket Bottom



COD/Code
BUC./Piece

EBİO-25
1 PCS

Panel Intermediate Setting Distance Template



COD/Code
BUC./Piece

EBİO-G29
1 PCS

Base Inner Support Bracket



COD/Code
BUC./Piece

EBİO-G34
1 PCS

M8X25 IMBUS CIVATA



COD/Code
BUC./Piece

EBİO-22
2 PCS

M6X30 IMBUS CIVATA



COD/Code
BUC./Piece

BİO-14
5 PCS

YSB 3.9X16 Screw



COD/Code
BUC./Piece

EBİO-9-8
1 PCS

M8 BULL



COD/Code
BUC./Piece

EBİO-12
3 PCS

YHB 4.8X38 Screw



COD/Code
BUC./Piece

BİO-11
9 PCS

Accesorii sistem / System Accessories

25x25 Lama M8
Thread



COD/Code
BUC./Piece

BiO-10
4 PCS

20x20 Lama M8
Thread



COD/Code
BUC./Piece

EBiO-9-6
2 PCS

M6 NUT



COD/Code
BUC./Piece

EBiO-9-7
4 PCS

Akb M8X16 Bolt



COD/Code
BUC./Piece

EBiO-10
3 PCS

Akb M8X16 Bolt



COD/Code
BUC./Piece

EBiO-11
2 PCS

Diameter 10 Shaft
Circlip



COD/Code
BUC./Piece

EBiO-17
2 PCS

M8X12 AKB Bolt



COD/Code
BUC./Piece

EBiO-6
2 PCS

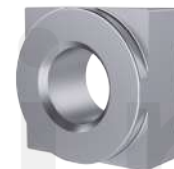
M8X12 COUNTERSUNK HEAD
MBUS



COD/Code
BUC./Piece

EBiO-8
1 PCS

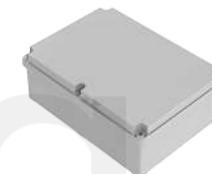
M8 Square Weld Nut



COD/Code
BUC./Piece

EBiO-1
2 PCS

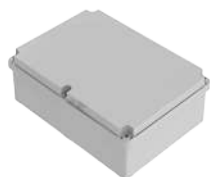
Tilt Control Unit Somfy Compatible



COD/Code
BUC./Piece

BiO-62
1 PCS

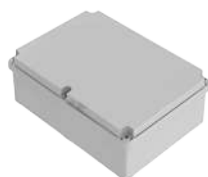
Tilt Control Unit Universal



COD/Code
BUC./Piece

BiO-63
1 PCS

Tilt Control Unit RGB



COD/Code
BUC./Piece

BiO-64
1 PCS

CONTROLLER



COD/Code
BUC./Piece

RTS-KMI-5
1 PCS

Insulated Led Daylight



COD/Code
BUC./Piece

PAL-145
1 Metre

Diagrama de asamblare a șasiului / Chassis Assembly Diagram

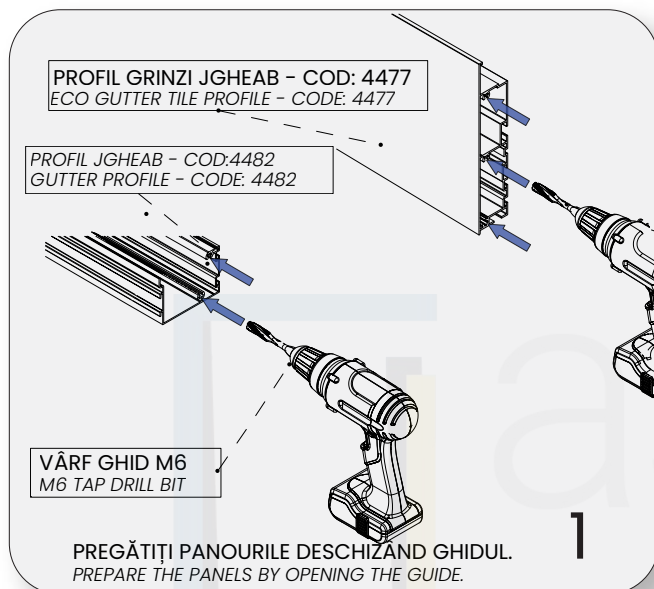
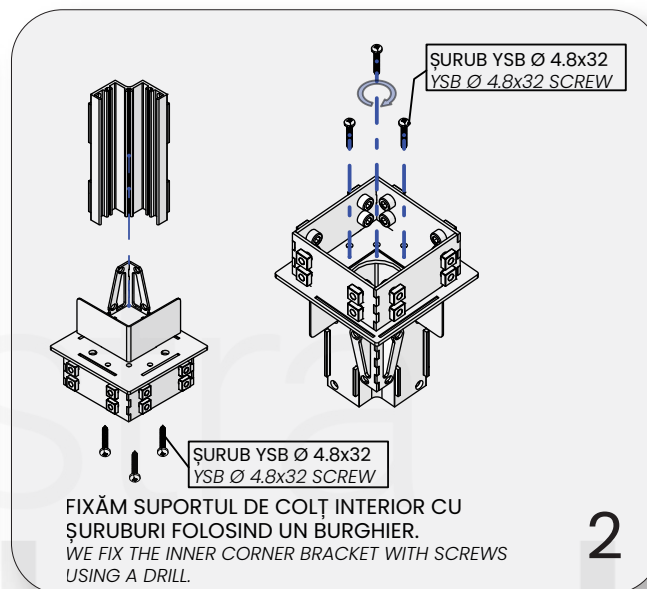
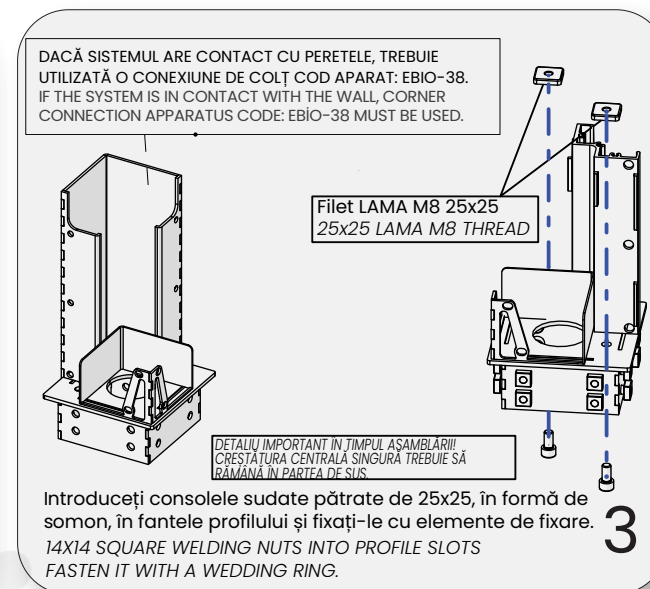
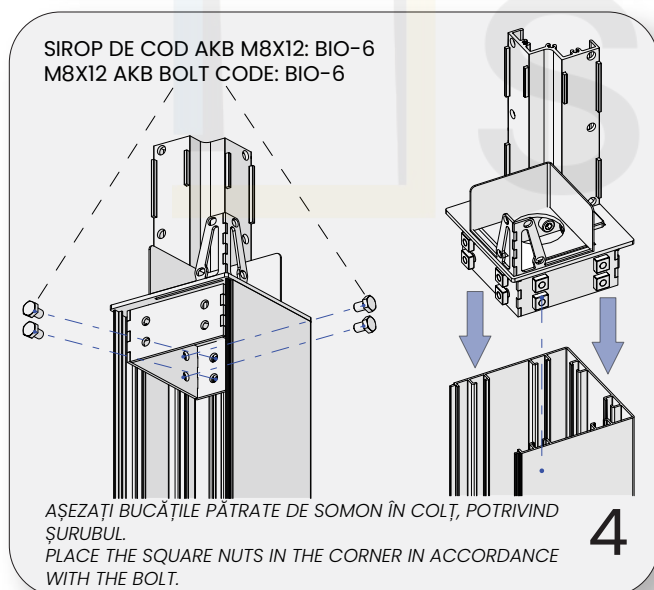
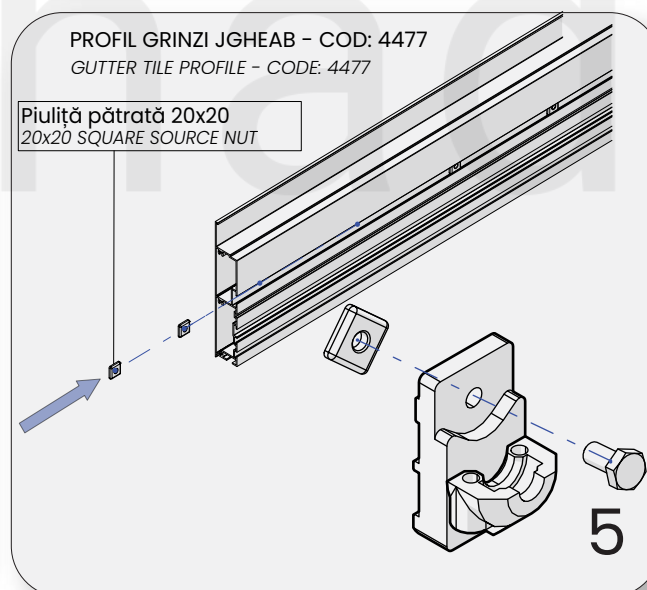
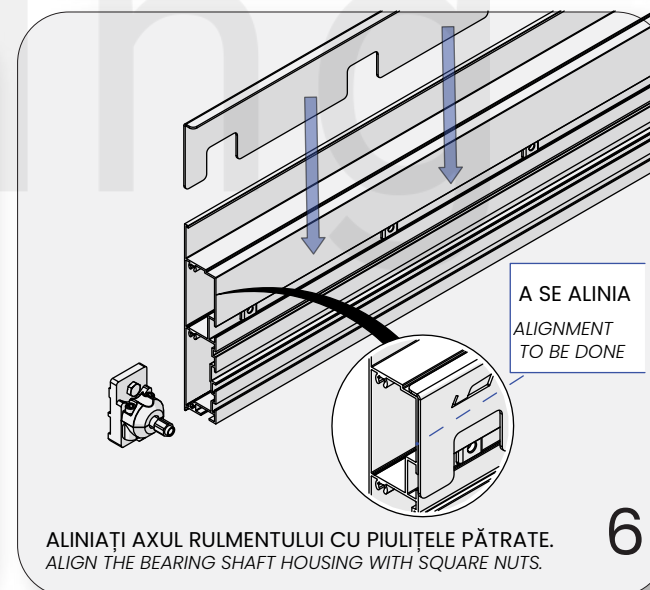
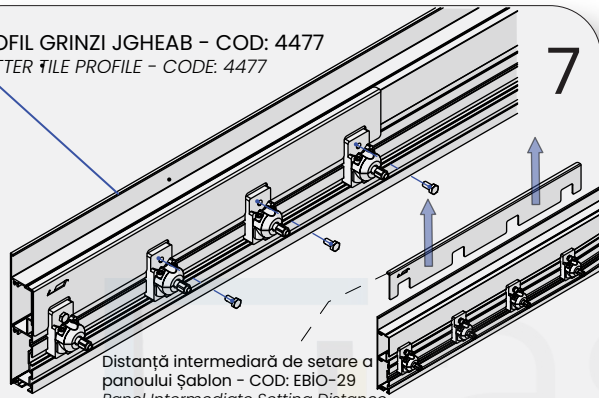


Diagrama de asamblare a șasiului /Chassis Assembly Diagram

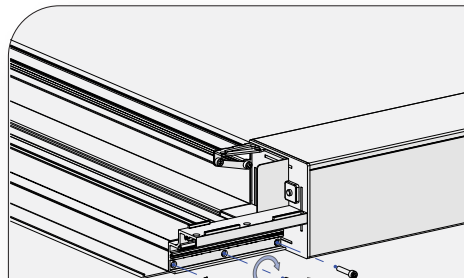
PROFIL GRINZI JGHEAB – COD: 4477
GUTTER TILE PROFILE – CODE: 4477

7



Distanță intermediară de setare a
panoului șablon – COD: EBIO-29
Panel Intermediate Setting Distance
Template – CODE: EBIO-29

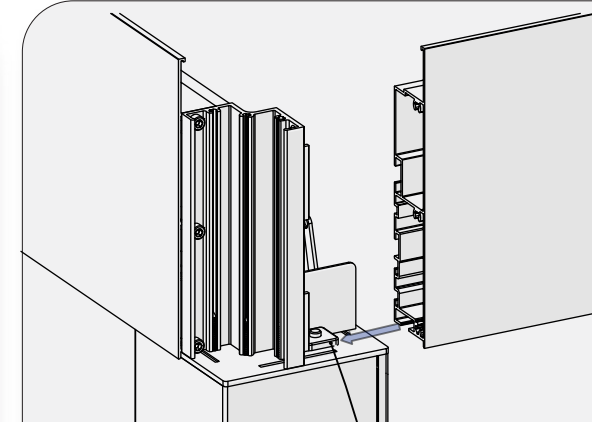
PREGLAȚI RULMENȚII AXULUI PE CARE I-AȚI REGLAT FOLOSIND ȘABLOUL
ANEL PENTRU DISTANȚĂ INTERMEDIARĂ.
CONTINUAȚI PROCESUL ȘI VERIFICAȚI PRECIZIȚIA RULMENȚILOR AXULUI.
FIX THE SHAFT BEARINGS YOU SET WITH THE PANEL INTERMEDIATE
ADJUSTMENT DISTANCE TEMPLATE. CONTINUE THE PROCESS AND
CHECK THE ACCURACY OF THE SHAFT BEARINGS.



8

M6X30 Șurub IMBUS –
COD: BIO-14
M6X30 Screw –CODE:
BIO-14

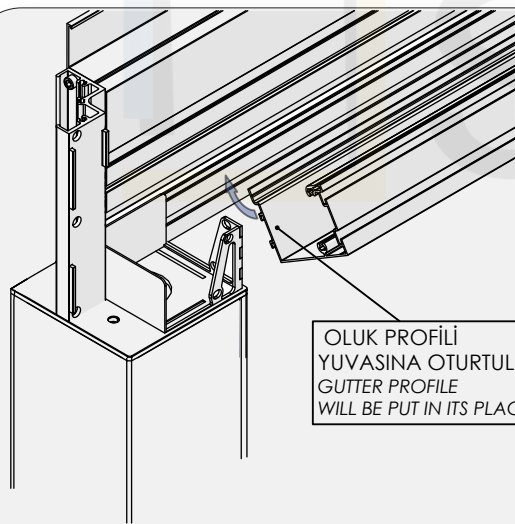
CONECTAȚI PANOURILE LA PROFILUL PICIOARELOR.
CONNECT THE PANELS WITH THE FOOT PROFILES.



9

DE APLICAT PE FANTA PROFILULUI!
WILL BE BANISHED TO THE PROFILE NEST!

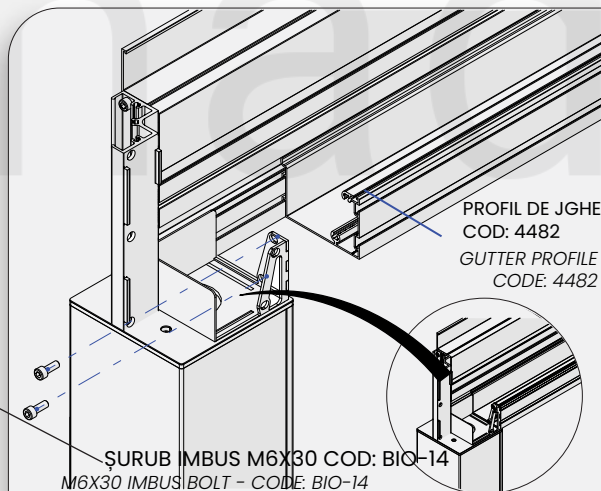
ALINIAȚI MONTANȚII CANELUȚI CU BARIERELE PĂTRATE ÎN FORMĂ DE
SOMON DIN COLȚURI.
LOCATE THE GILLNUTS TO THE SQUARE SALMON
IN THE CORNER.



10

OLUK PROFILU
YUVASINA OTURTULACAK!
GUTTER PROFILE
WILL BE PUT IN ITS PLACE!

ÎNȚ KÖŞE BAĞLANTI APARATINI VİDALARLA SABİTLEYİN.
FIX THE INNER CORNER BRACKET WITH SCREWS.

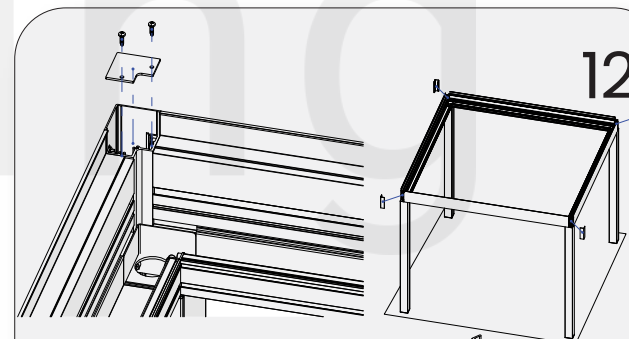


11

PROFIL DE JGHEAB
COD: 4482
GUTTER PROFILE
CODE: 4482

ȘURUB IMBUS M6X30 COD: BIO-14
M6X30 IMBUS BOLT – CODE: BIO-14

INSTALAȚI PROFILUL CANALIZAT ȘI INSTALAȚI ȘURUBURILE.
POSITION THE ECO GUTTER PROFILE AND INSTALL THE BOLTS.



12

INSTALAȚI CAPACELE
PROFILULUI VERTICAL
FINALIZAȚI ANSAMBLUL
ȘASIULUI.
AȘEZAȚI CAPACUL ECO
PENTRU PICIOARE.
COMPLETE THE CHASSIS
ASSEMBLY BY INSTALLING THE
VERTICAL PROFILE COVERS.
PLACE THE ECO FOOT COVER.

4480

4479

Diagrama de asamblare a șasiului / Panel Assembly Diagram

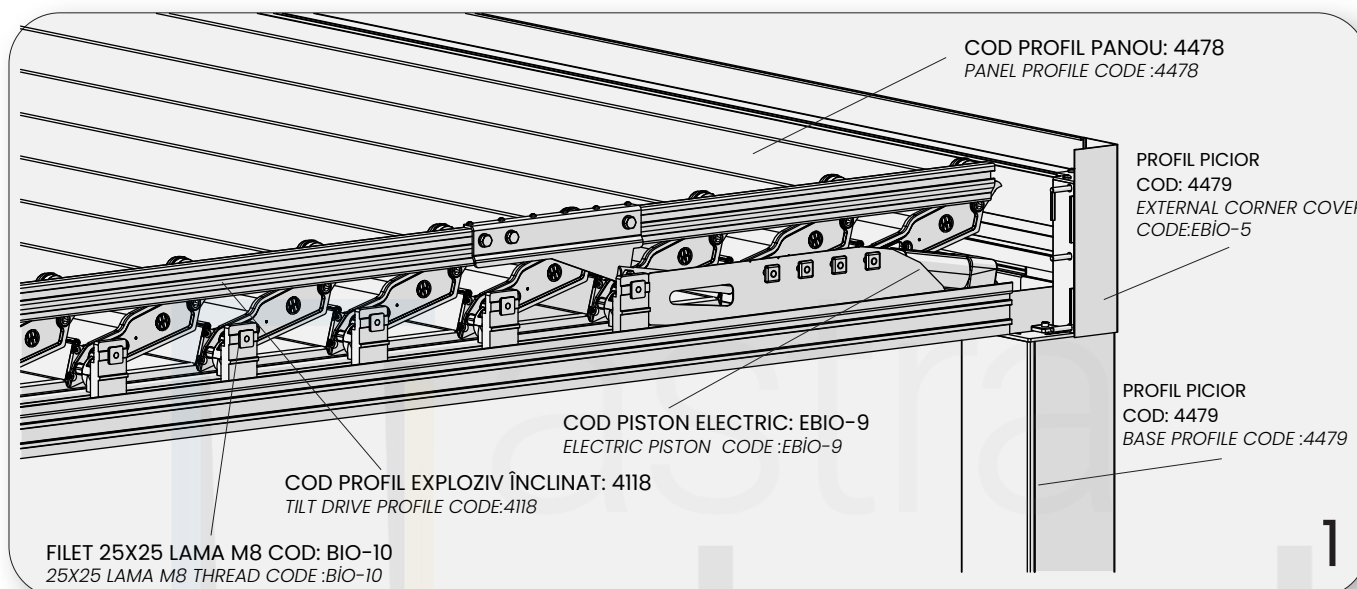
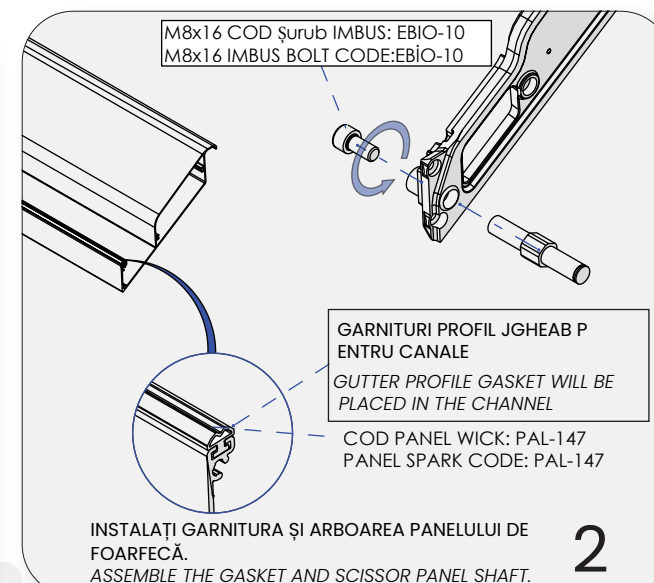
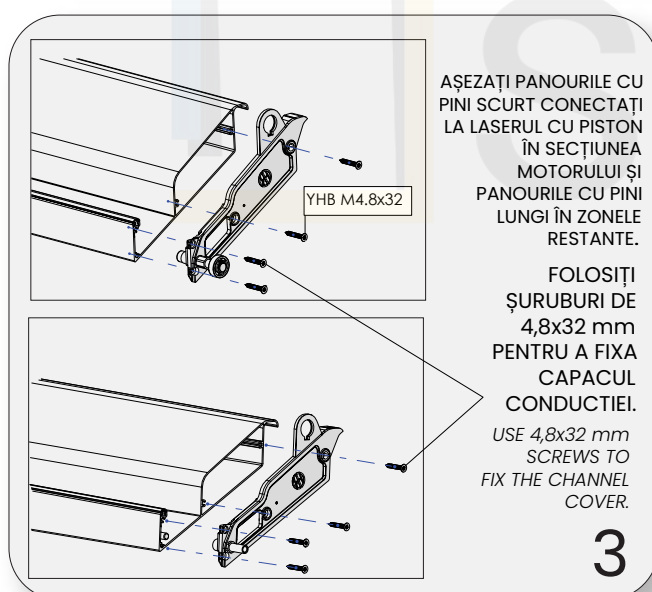
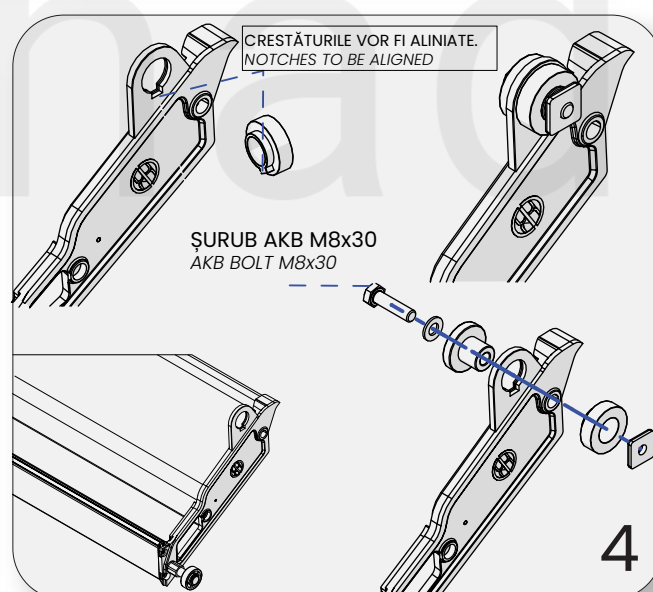
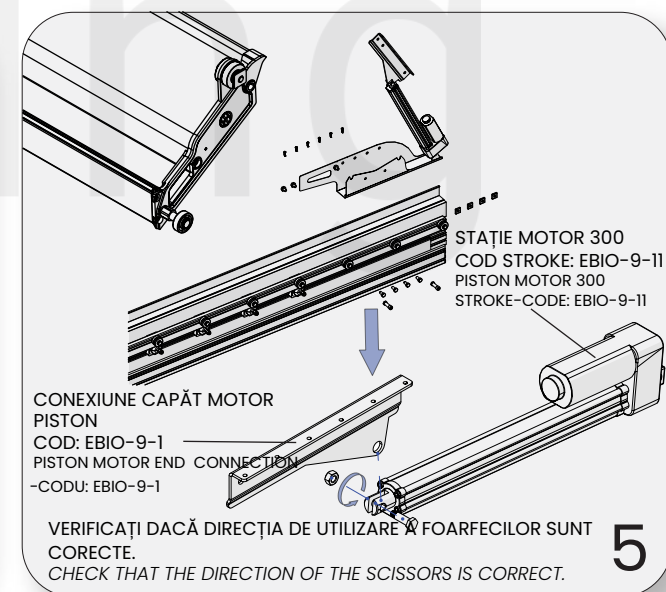
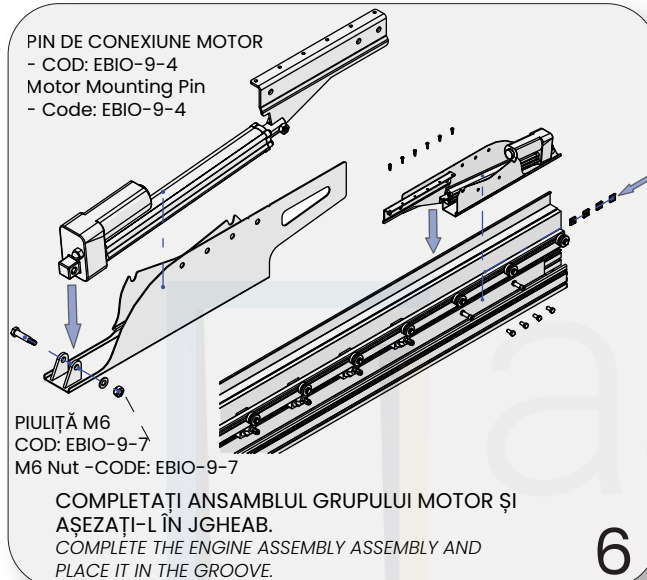
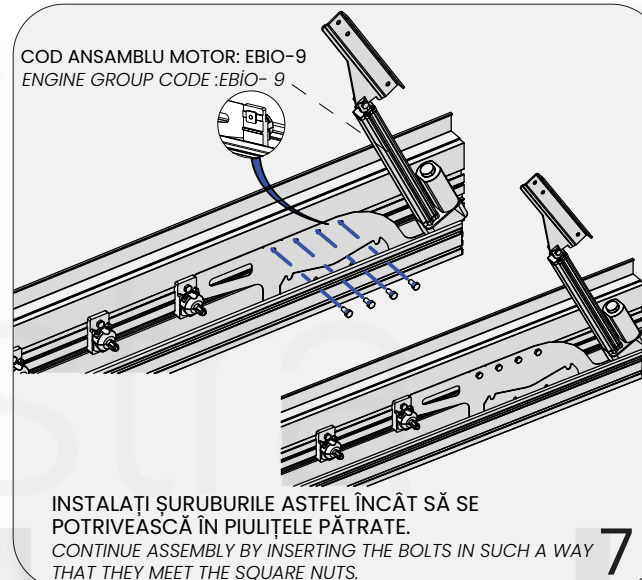
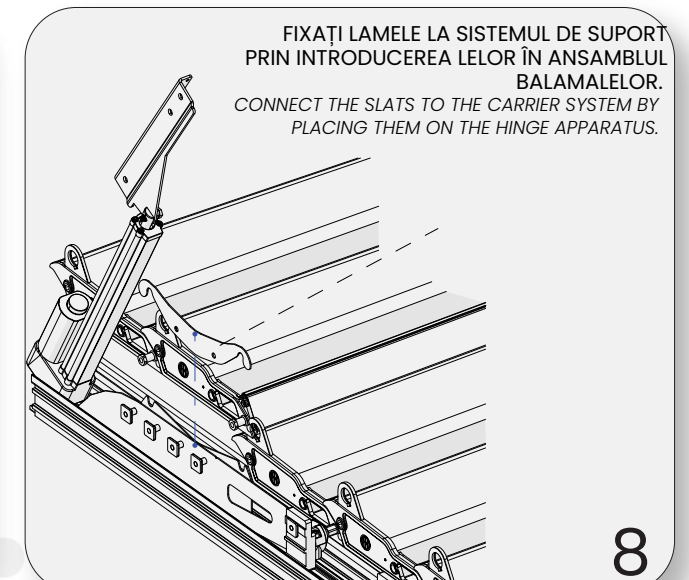
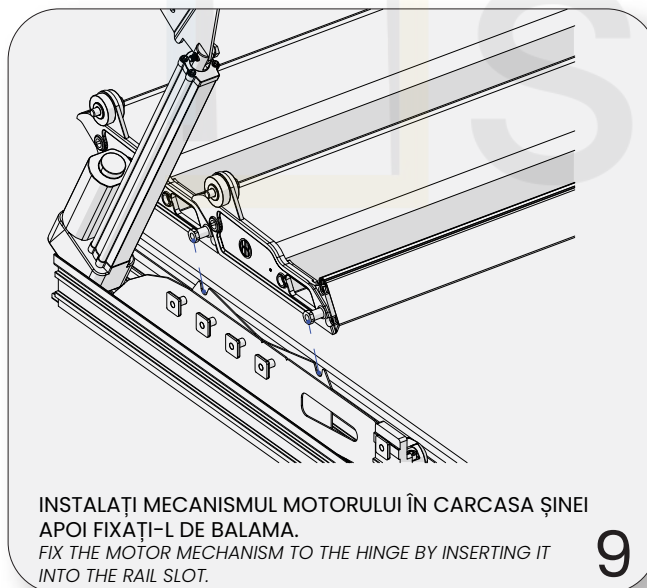
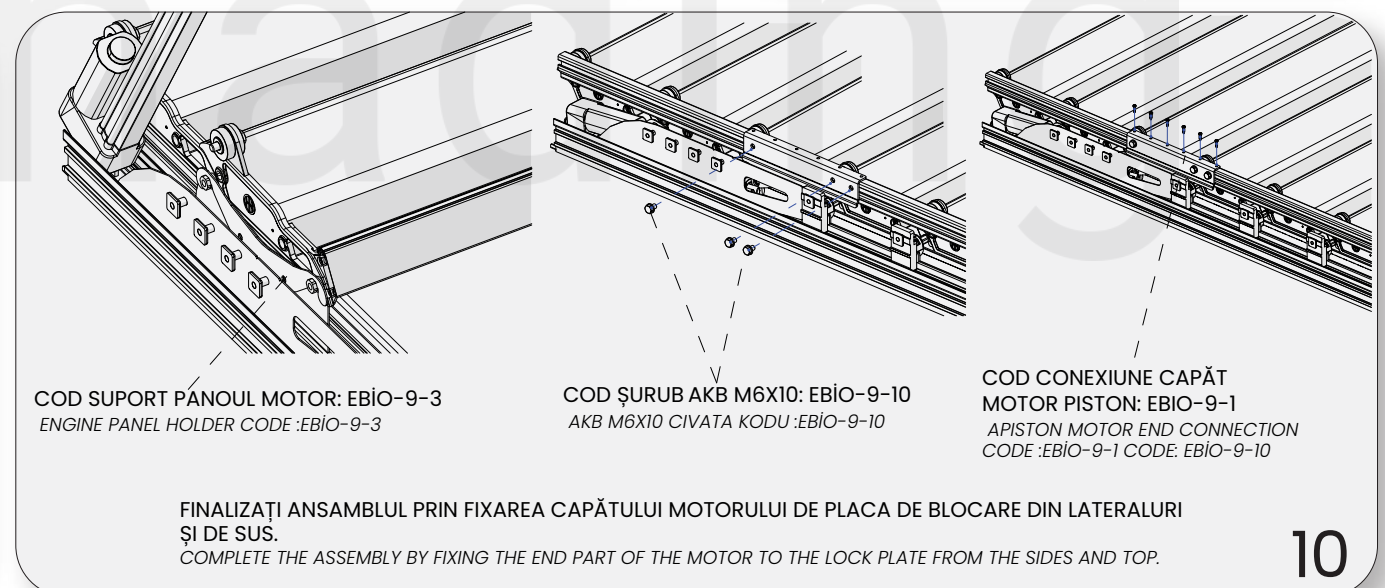
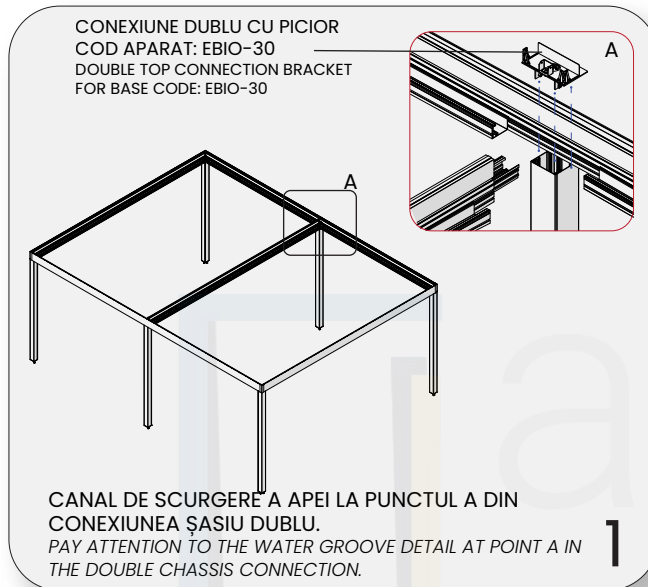
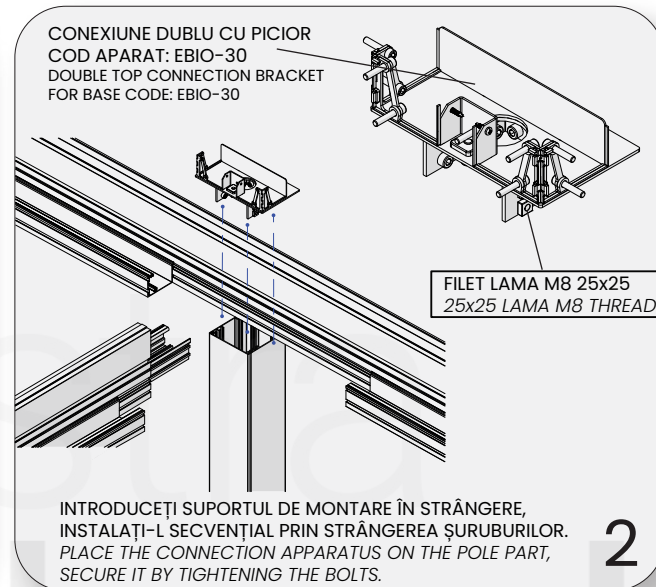
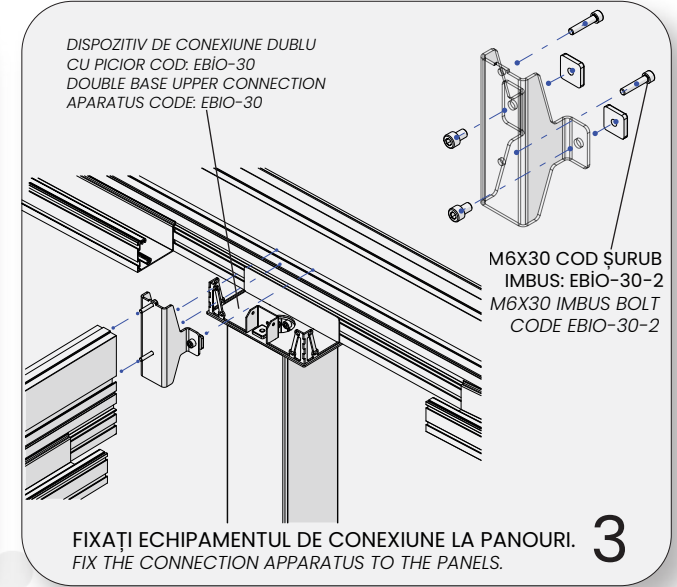
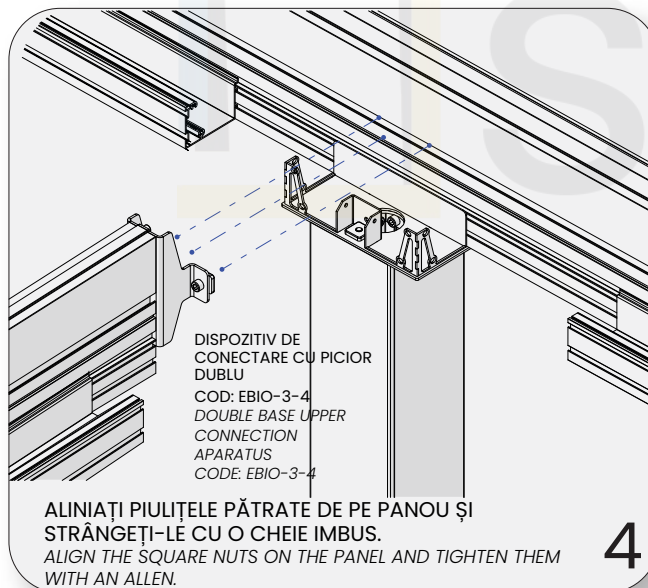
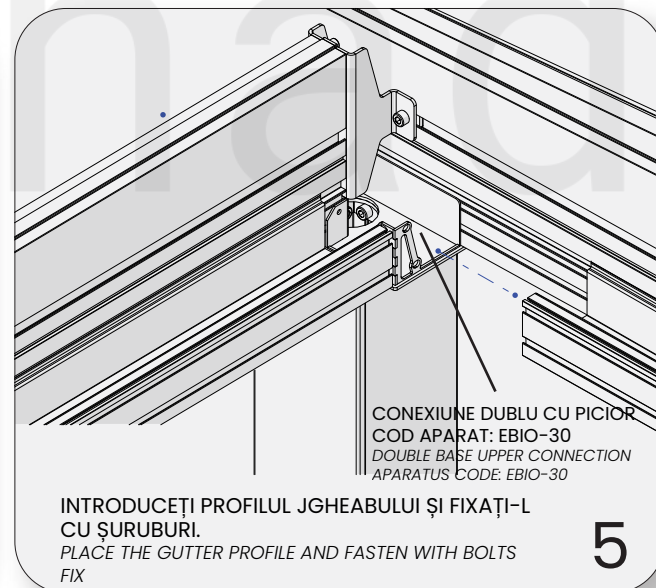
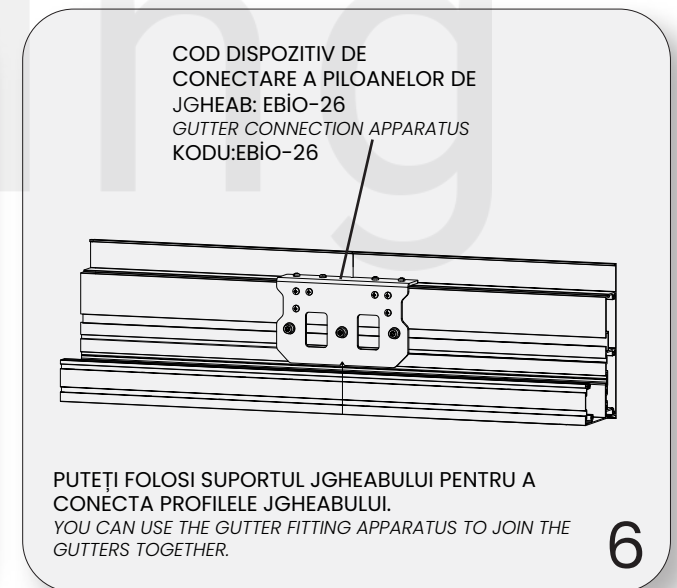


Diagrama de asamblare a șasiului /Panel Assembly Diagram



Diagramă de asamblare a șasiului din 2 piese/2 Chassis Mounting Diagram



Diagramă de asamblare în 4 piese / 4 Chassis Mounting Diagram

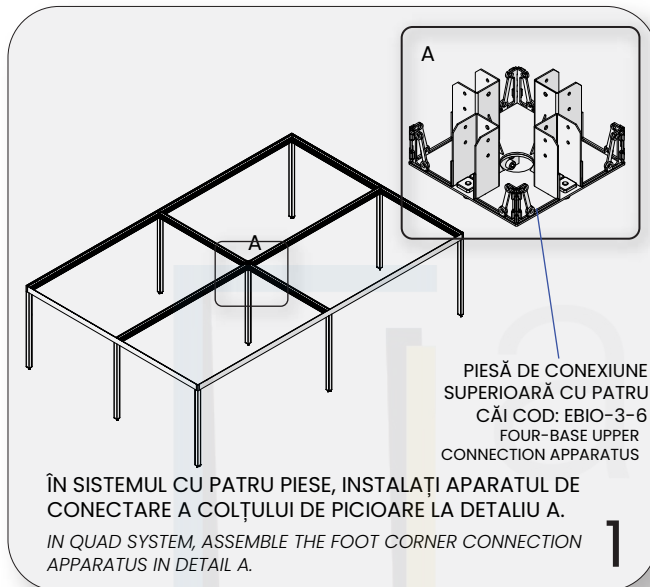
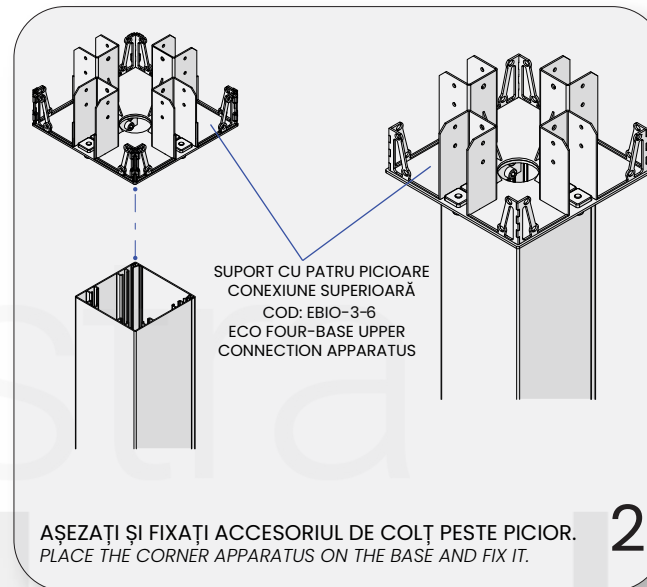
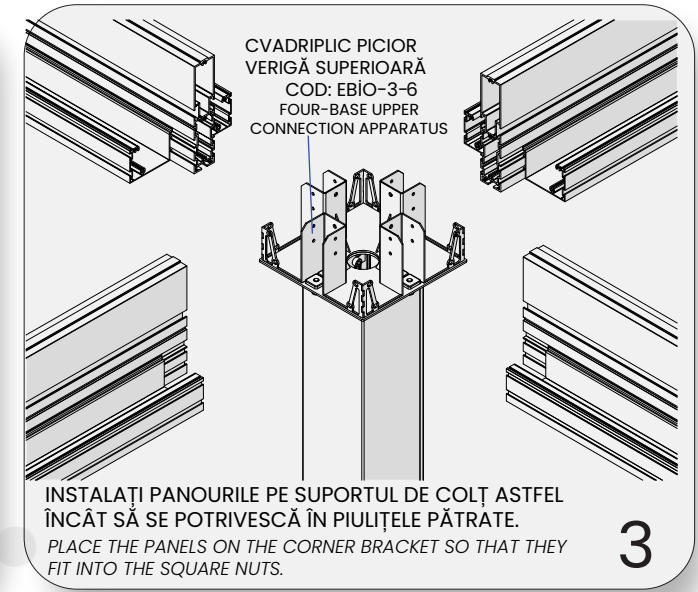
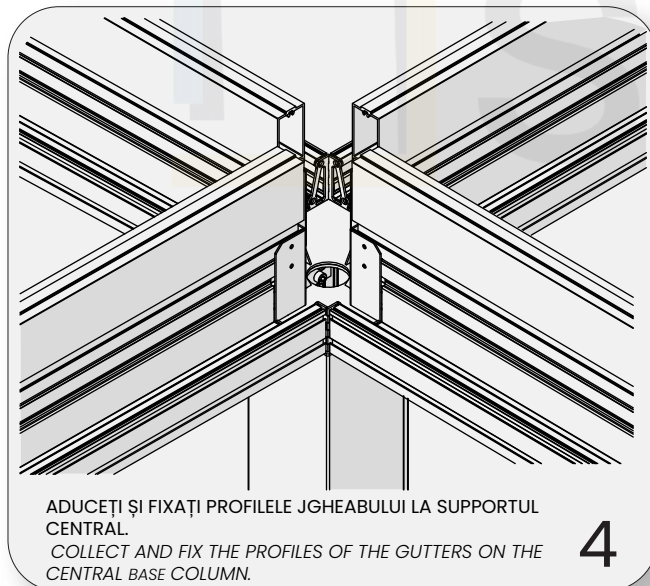
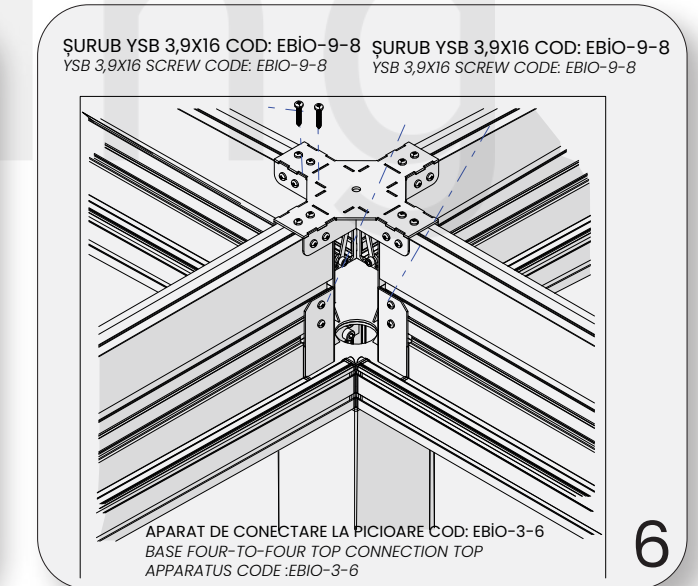
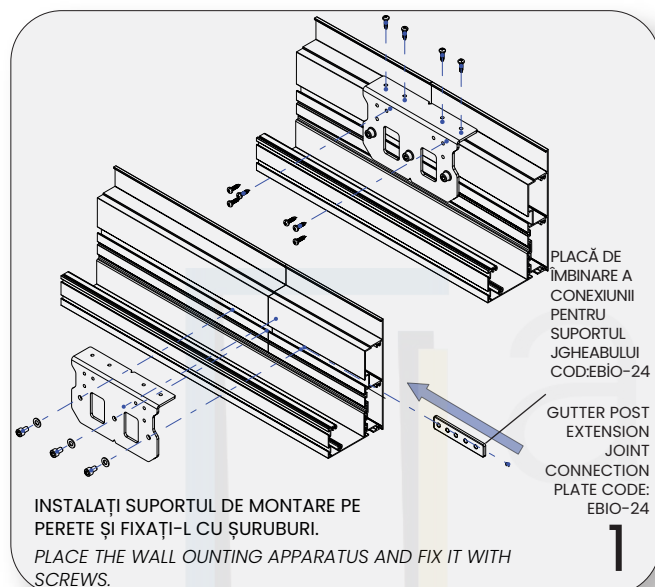
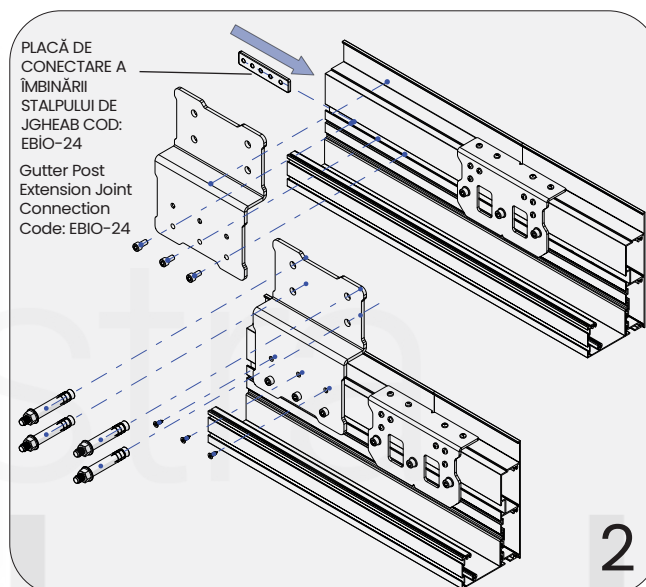
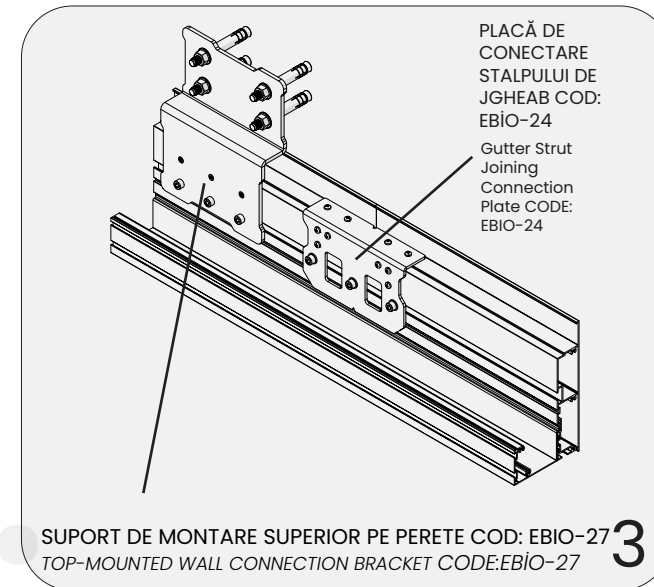


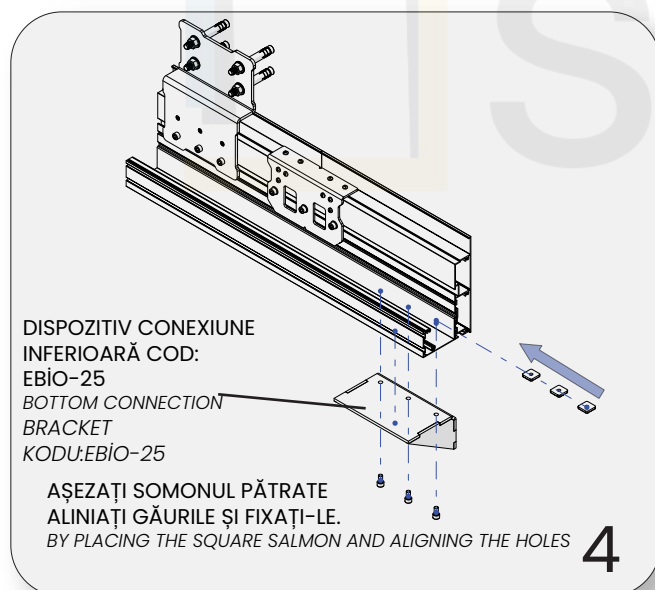
Diagrama de instalare a montajului pe perete /Wall Hanger Mounting Diagram



INSTALAȚI SUPTUL DE MONTARE PE PERETE ȘI FIXAȚI-L CU ȘURUBURI.
PLACE THE WALL MOUNTING APPARATUS AND FIX IT WITH SCREWS.

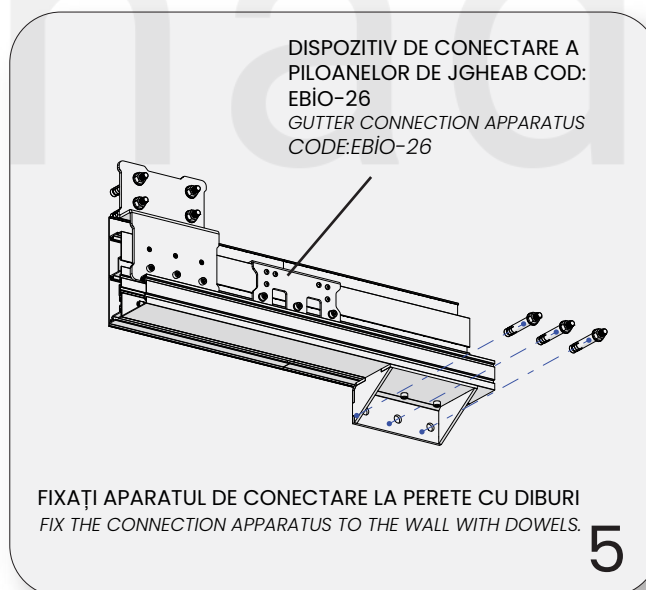


SUPT DE MONTARE SUPERIOR PE PERETE COD: EBIO-27
TOP-MOUNTED WALL CONNECTION BRACKET CODE:EBIO-27

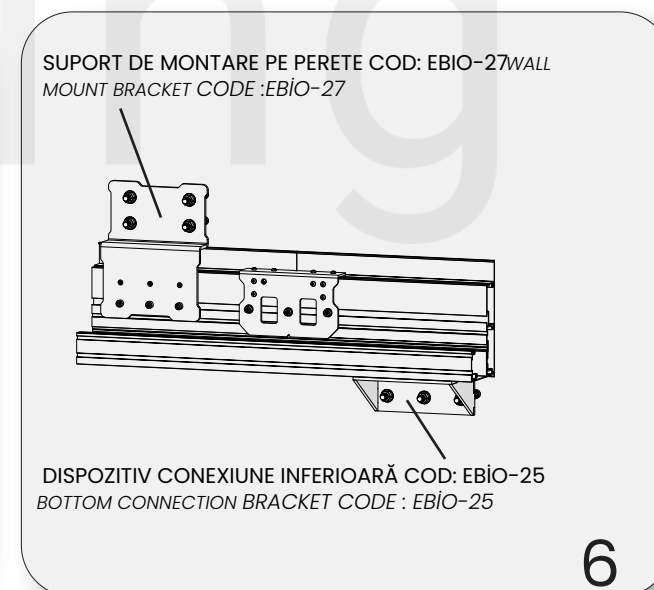


DISPOZITIV CONEXIUNE INFERIOARĂ COD: EBIO-25
BOTTOM CONNECTION BRACKET KODU:EBIO-25

AȘEZAȚI SOMONUL PĂTRATE ALINIAȚI GĂURILE ȘI FIXAȚI-LE.
BY PLACING THE SQUARE SALMON AND ALIGNING THE HOLES

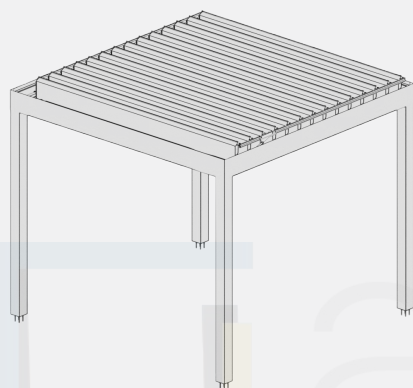


FIXAȚI APARATUL DE CONECTARE LA PERETE CU DIBURI
FIX THE CONNECTION APPARATUS TO THE WALL WITH DOWELS.



SUPT DE MONTARE PE PERETE COD: EBIO-27
WALL MOUNT BRACKET CODE:EBIO-27

DISPOZITIV CONEXIUNE INFERIOARĂ COD: EBIO-25
BOTTOM CONNECTION BRACKET CODE: EBIO-25



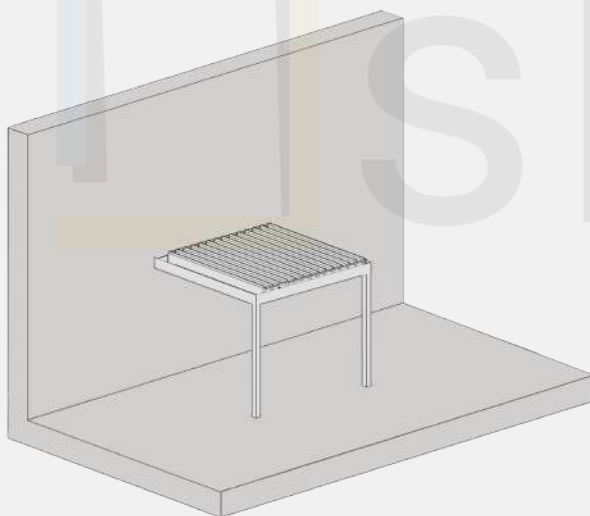
SISTEM INDIVIDUAL
SINGLE SYSTEM



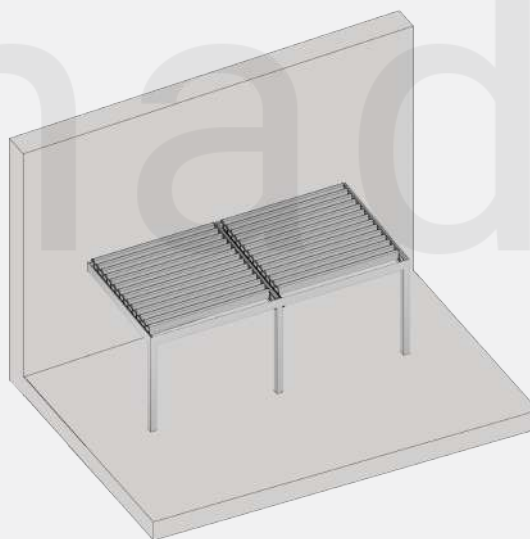
SISTEM DUBLU
DOUBLE SYSTEM



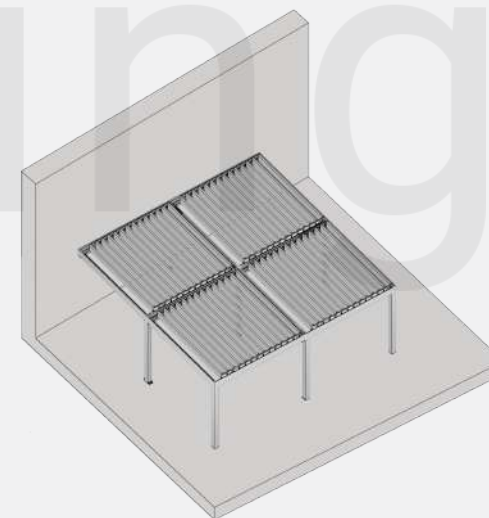
SISTEM MULTIPLU
MULTIPLE SYSTEM



**SISTEM INDIVIDUAL CU PRINDERE
DE PERETE**
SINGLE SYSTEM WALL CONNECTED



**SISTEM DUBLU CU PRINDERE DE
PERETE**
DOUBLE SYSTEM WALL CONNECTED



**SISTEM MULTIPLU CU PRINDERE DE
PERETE**
MULTIPLE SYSTEM WALL CONNECTED



Pantelimon, B-dul Biruintei,
nr. 253-257,
cod postal 077145,
jud. Ilfov
office@astrashading.ro