

WATERTIGHT ALUMINIUM PERGOLA SYSTEM WITH ROTATING LOUVERS

INTRODUCTION

FRESH OUTDOOR PERGOLA has been designed to meet the needs of the waterproof systems market. An all-aluminum system with rotating blades protects against the sun's rays on sunny days and against rainwater. Essential characteristics of the system:

- Hidden movement mechanism and hidden gaskets and support pieces.
- The pergola contains a complete drainage system. • Louvers rotate from 0 ° to 135 ° for adequate ventilation and shade during the day.
- Possibility of choosing between standard slats and LED

lighting, available in a RAL color palette and imitation wood.

- Minimum maintenance thanks to the excellent properties of aluminum. An ideal system for use in outdoor and semi-outdoor environments in:
Hotel facilities.
F & B outlets.





DESIGN

Fresh Outdoor Pergola is studied and designed in a way to absorb any noise that might be caused during the movement of the louvers.

This happens thanks to the use of the motorised system that permits the free movement of the louvers. The motorised system is situated in the interior part of the beam to ensure that it will not be visible.

In addition, thanks to the use of gasket between the louvers it is prevented the noise provoked from the louver's closing.

Also, at the flank of the louvers there is situated on the beam a brush that not only absorbs the noise provoked from the louver's movement but also, prevents the sunlight from entering when the louver is closed.

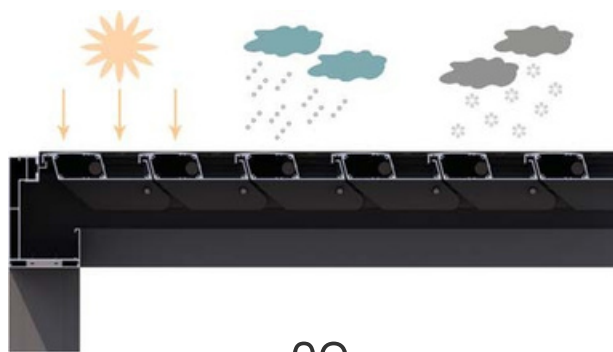
OPTIONAL PRODUCT (CUSTOMER'S ADDITION)

Possibility to choose from a variety of automated systems:

- Led lightning
- Rain or wind sensor
- Infrared heating
- Transmitter and central control
- Music and audio control system through bluetooth
- Smartphone control
- Temperature sensor
- Snow sensor

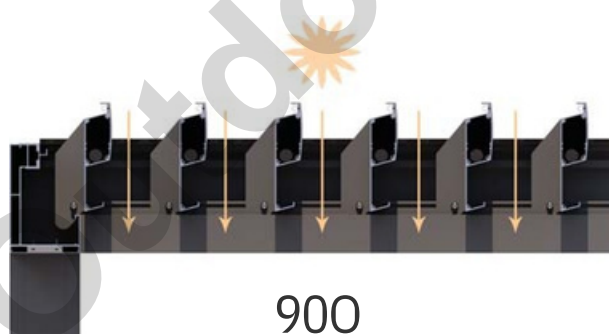
LOUVERS MOVEMENT

The free rotation of the louvers from 0° to 120° allows the maximum use of the pergola during different weather.



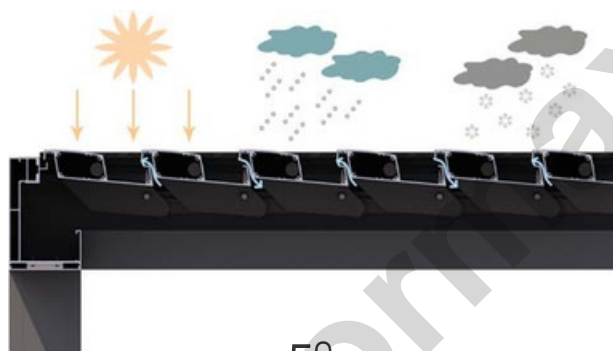
00

The roof remains closed, offering protection from all weather.



900

Permits full use of the sunlight.



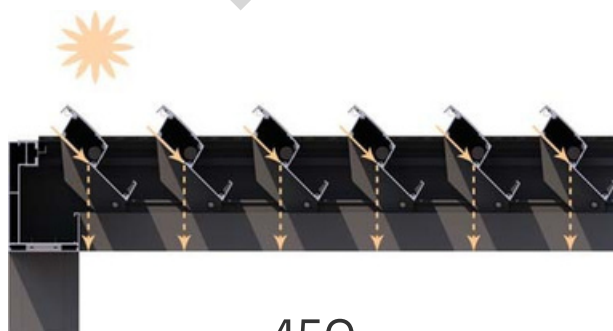
5°

Permits the ventilation of the area even if it is raining or snowing.



1000

Maximum louver's opening, that allows maximum use of sunlight even in sunset.



450

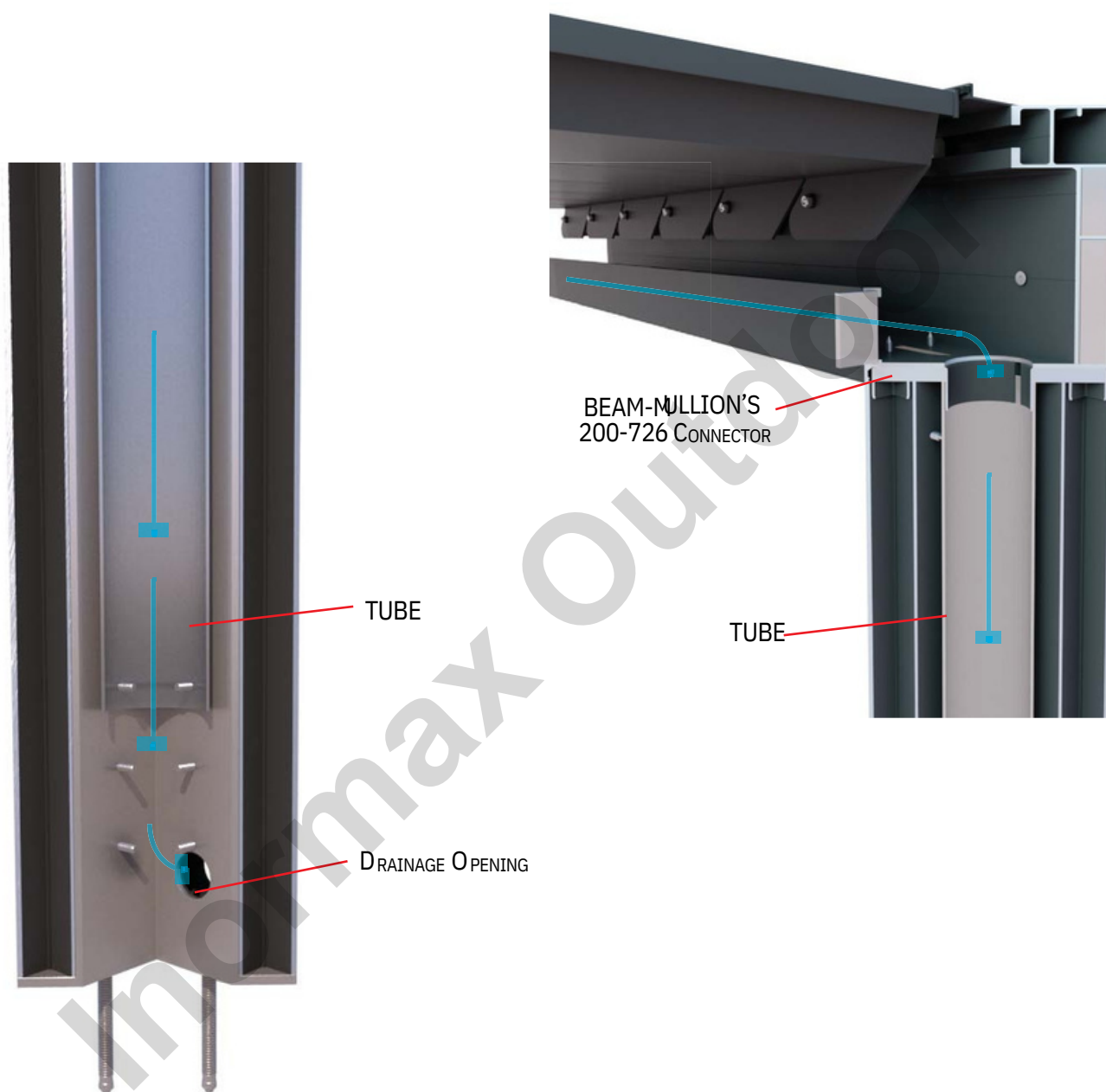
Allows the sunlight to enter, controlling though the illumination.

DRAINAGE SYSTEM

Fresh Outdoor pergola is designed in a way to collect rainwater and channel it to the side beams of the louvers. The water is then guided out of the structure. The Louvers are kept open in such a way that when they are opening not to have water drop.



RAINWATER DRAINAGE SYSTEM



FINISHING

The finishing of the profiles can be chosen between anodized, RAL colour or imitation wood.

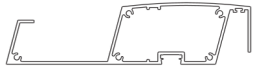
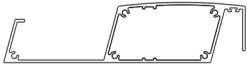
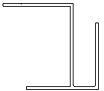
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PROFILES SUMMARY

Inormax Outdoor

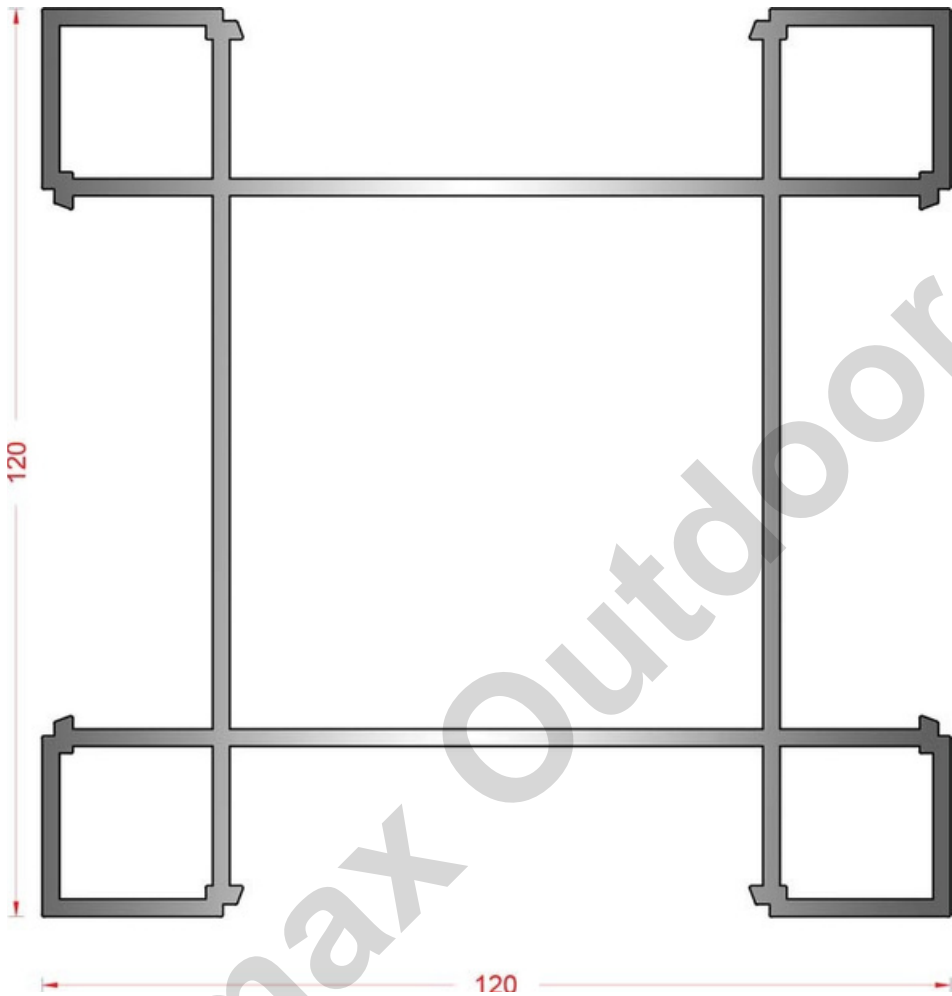
PROFILES SUMMARY

PROFILE	DRAWING	WEIGHT	LENGTH	PAGE
200-718		3938GR/M	4.10M 5.10M 6.10M	11
200-719		1423GR/M	6M	13
200-733		2840GR/M	3.10M 4.10M 5.10M	12
200-731		2719GR/M	3.10M 4.10M 5.10M	12
200-722		349GR/M	6M	13
200-723		633GR/M	6M	13
200-732		595GR/M	6M	13
200-725		532GR/M	6M	12
200-726		4063GR/M	6.10M	10
200-728		2011.5GR/M	6M	14
200-729		2268GR/M	6M	14
200-730		1124GR/M	6M	14
102-011		335GR/M	6M	10
32444		443GR/M	6M	10
8230		121.5GR/M	6M	13

PROFILES

Inormax Outdoor

PROFILES



200-726		MULLION
WEIGHT	4063 GR/M	
MOMENTS OF INERTIA	$I_x=257.18\text{C M}4$ $I_y=257.18\text{CM}4$	

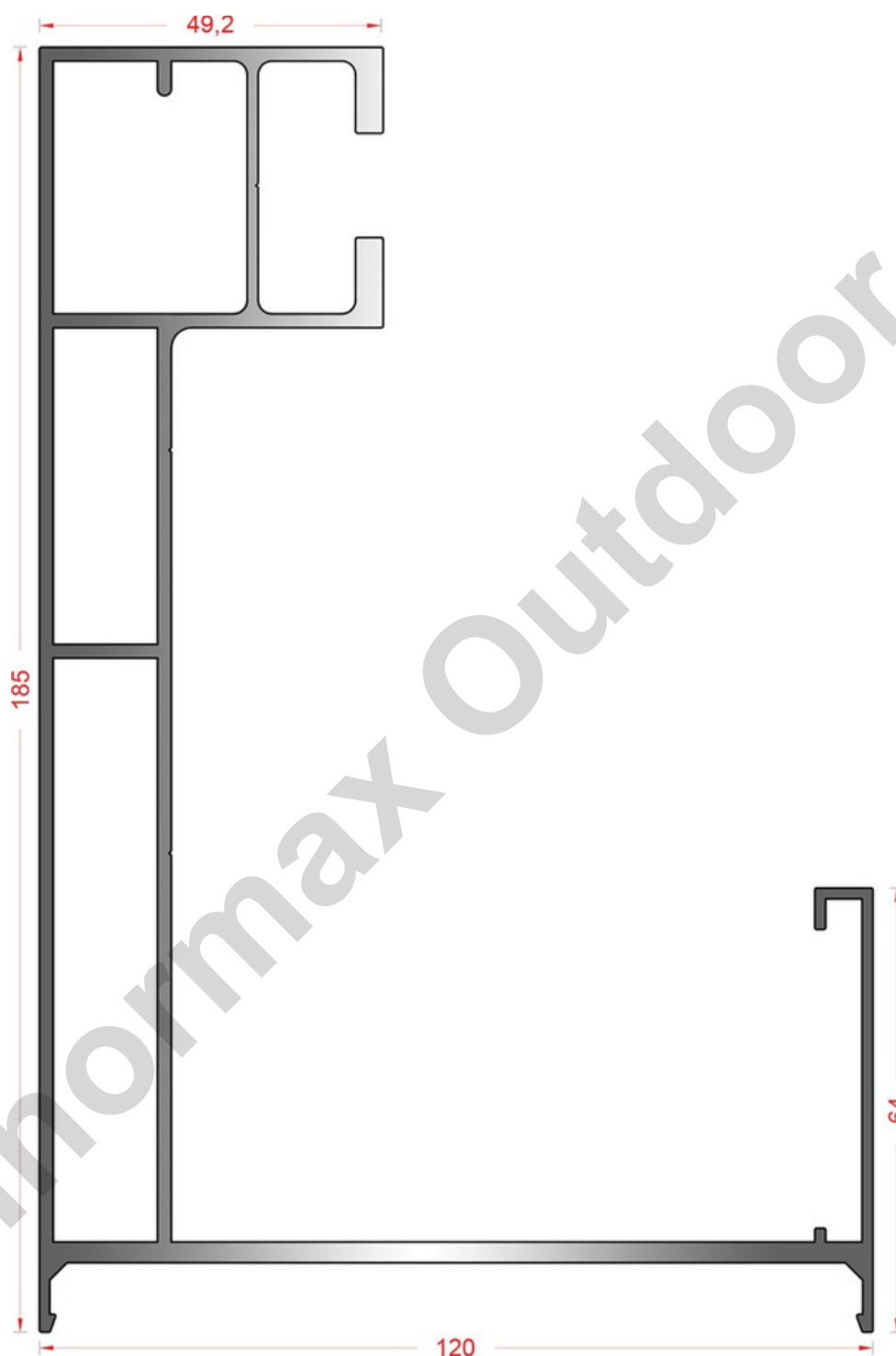


102-011	MULLION'S CAP
WEIGHT	335GR/M



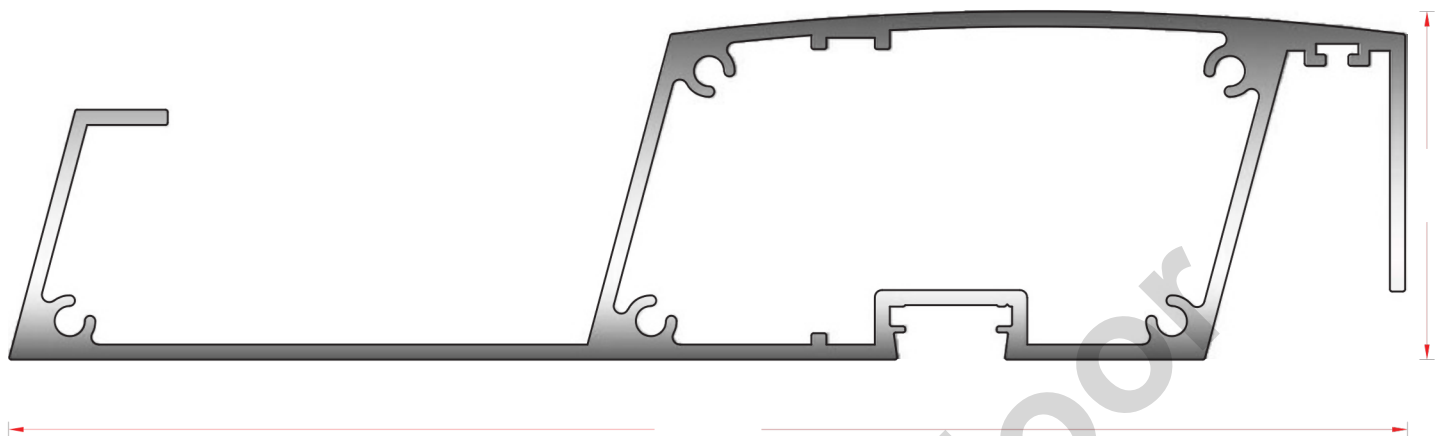
32444	MOVEMENT PROFILE
WEIGHT	443GR/M

PROFILES

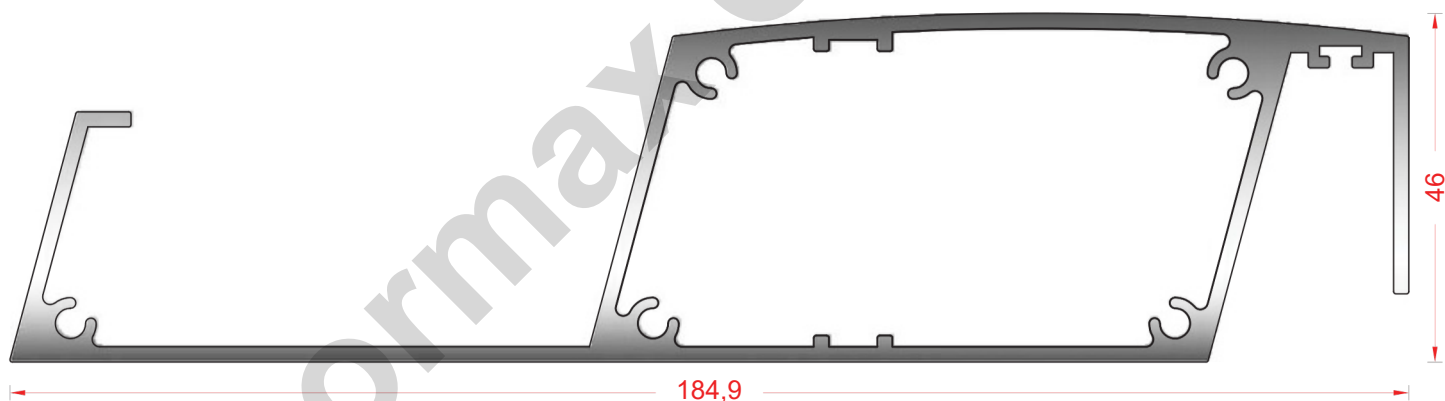


200-718	BEAM
WEIGHT	4020 GR/M
MOMENTS OF INERTIA	$I_x = 594.0 \text{ CM}^4$ $I_y = 206.7 \text{ CM}^4$

PROFILES



200-733		LOUVER
WEIGHT	2840 GR/M	
MOMENTS OF INERTIA	$I_x = 32.85 \text{ CM}^4$ $I_y = 336.69 \text{ CM}^4$	

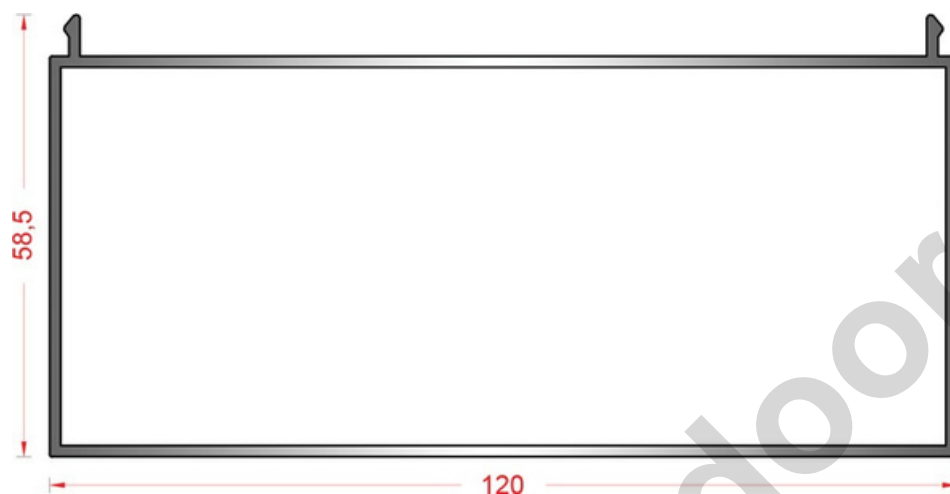


200-731		LOUVER
WEIGHT	2731 GR/M	
MOMENTS OF INERTIA	$I_x = 32.66 \text{ CM}^4$ $I_y = 327.5 \text{ CM}^4$	

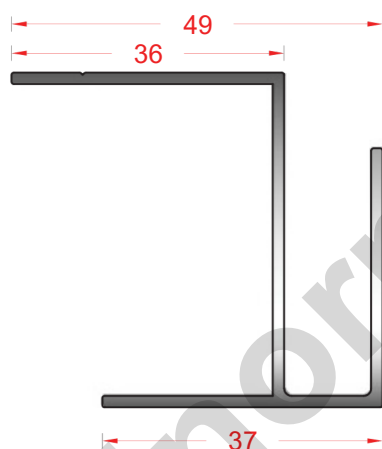


200-725		BEAM'S CAP
WEIGHT	523.5 GR/M	

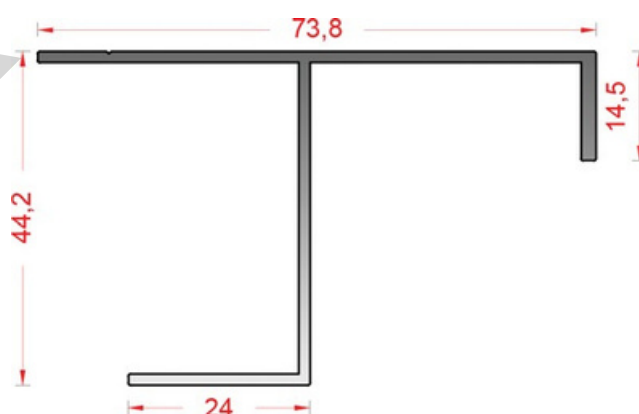
PROFILES



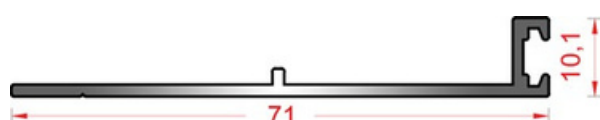
200-719	BEAM CAP WITH VACUUM
WEIGHT	1423 GR/M



200-724	FRONT SPACER
WEIGHT	500 GR/M



200-723	BACK SPACER
WEIGHT	633 GR/M

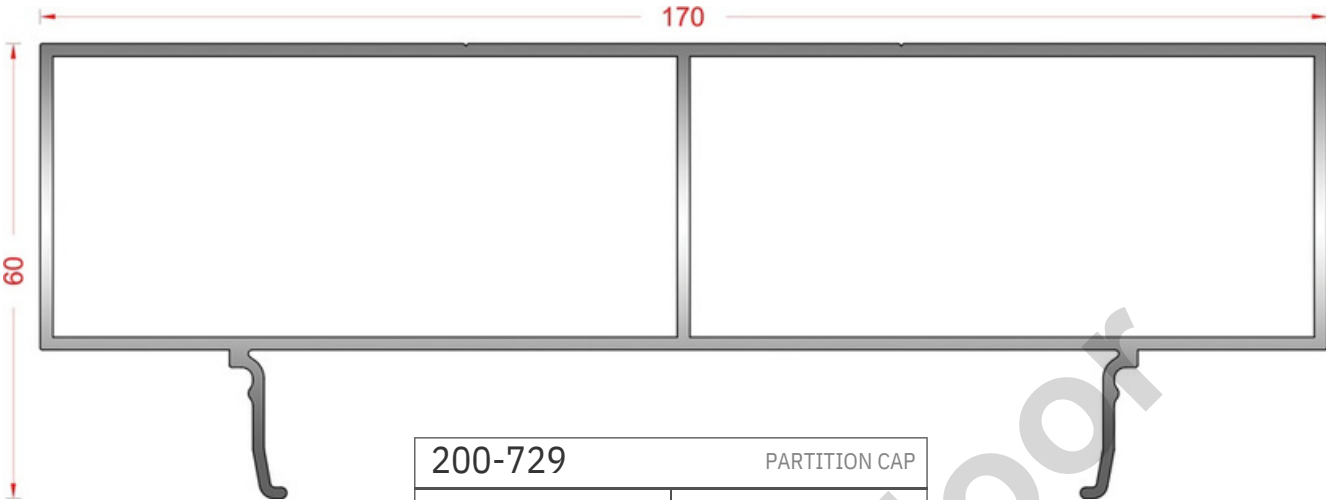


200-722	SIDE SPACER
WEIGHT	349 GR/M

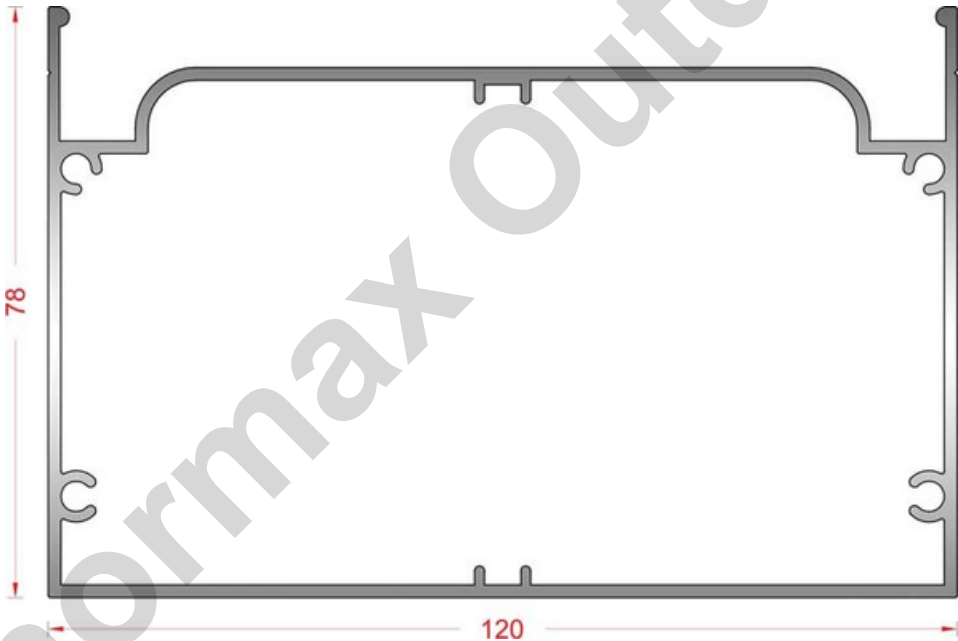


8230	FLAT BAR
WEIGHT	121.5 GR/M

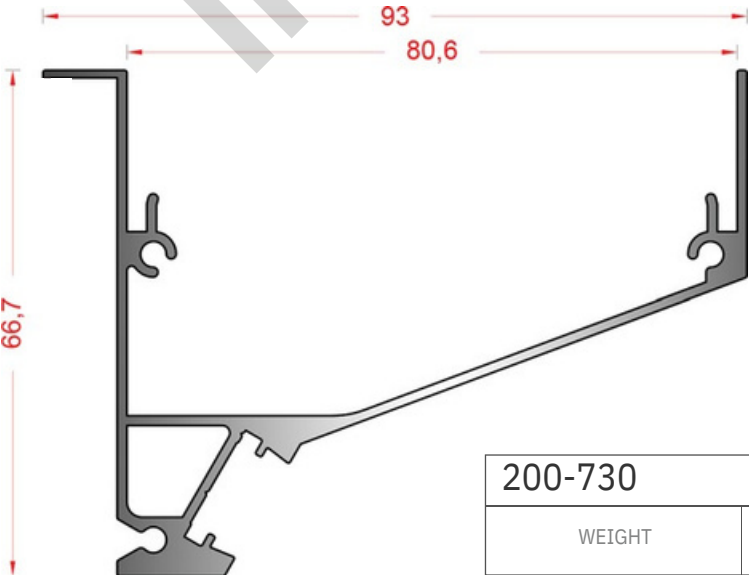
PROFILES



200-729		PARTITION CAP	
WEIGHT		2268 GR/M	



200-728		PARTITION	
WEIGHT		2011.5 GR/M	



200-730		DRAINAGE GUTTER	
WEIGHT		1124 GR/M	

TPOLOGY

MAXIMUM DIMENSIONS - BEAM 6M
- LOUVER: 4.3M*

***WITHOUT SNOW LOAD**

THE MAXIMUM LENGTH WITH SNOW LOAD IS 3.80M

IN EACH CONSTRUCTION THE LOUVERS MUST MOVE AT THE SAMETIME. FOR THE USE OF A SECOND MOTORISED SYSTEM IT IS NECESSARY TO USE THE "T" PROFILE.



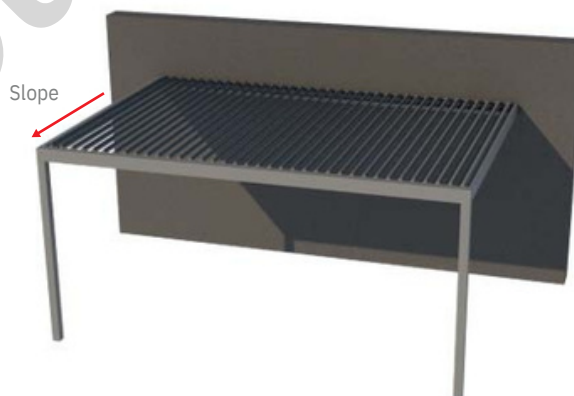
4 MULLIONS



3 MULLIONS



2 MULLIONS (LOUVER PARALLEL TO WALL)



2 MULLIONS (LOUVER PERPENDICULAR TO WALL)



NO MULLIONS

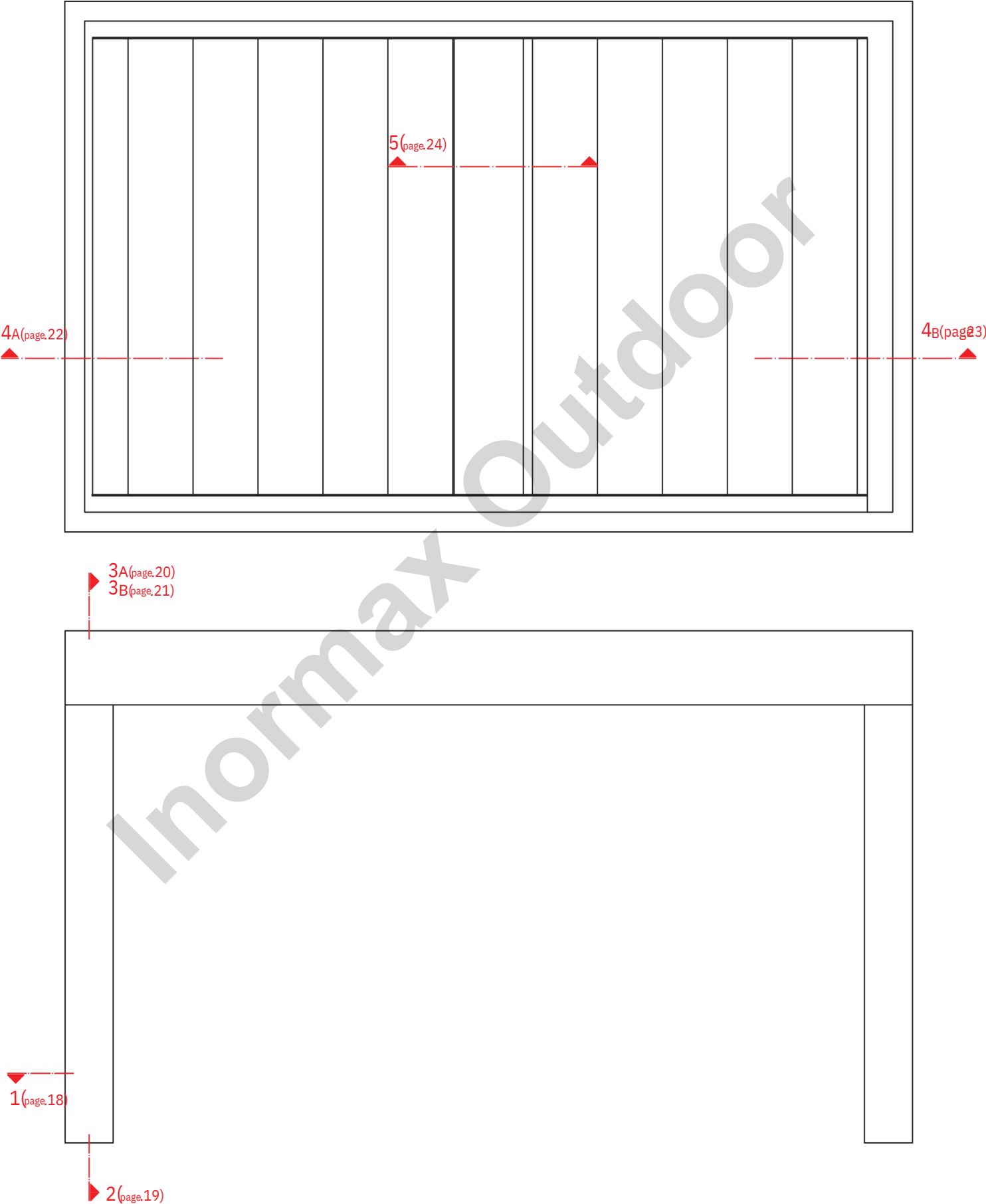


DUPLEX (8 MULLIONS)

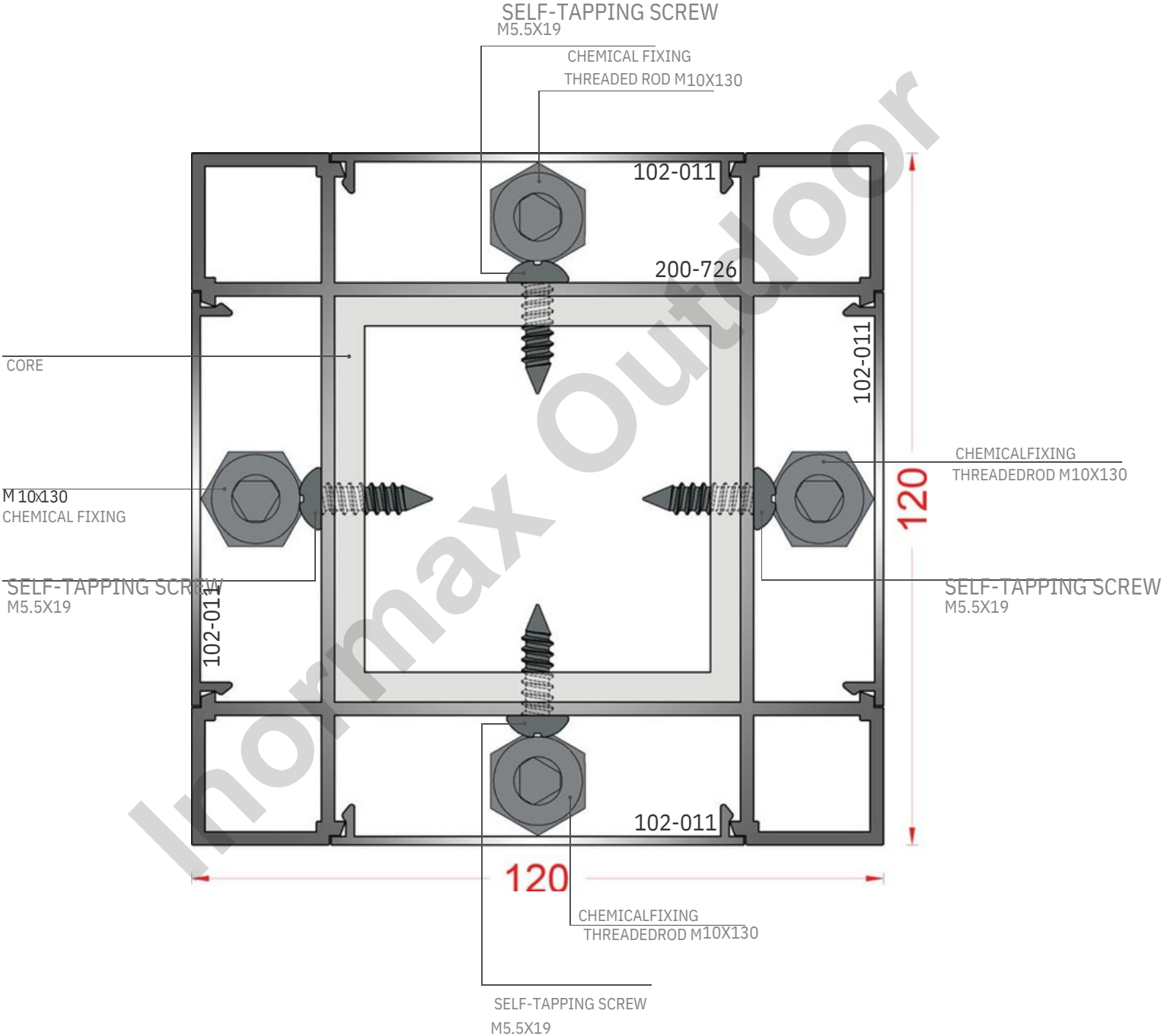
FOR EVERY CONSTRUCTION MUST BE APPLIED AN INCLINATION PARALLEL TO LOUVER'S DIRECTION. THE INCLINATION SHOULD BE ~2,00%, ACCORDING TO THE LENGTH OF THE PERGOLA

SEC TIONS

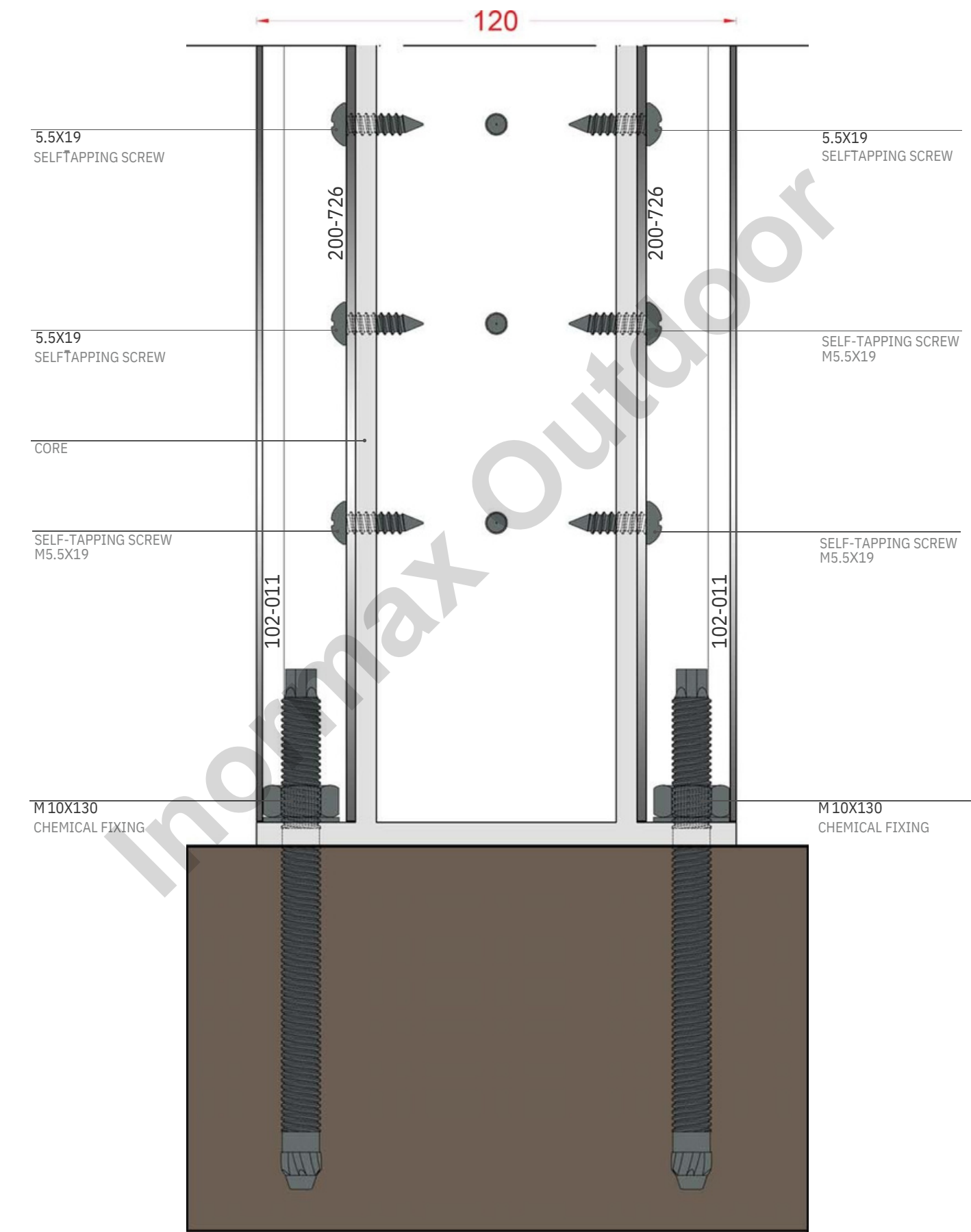
Inormax Outdoor



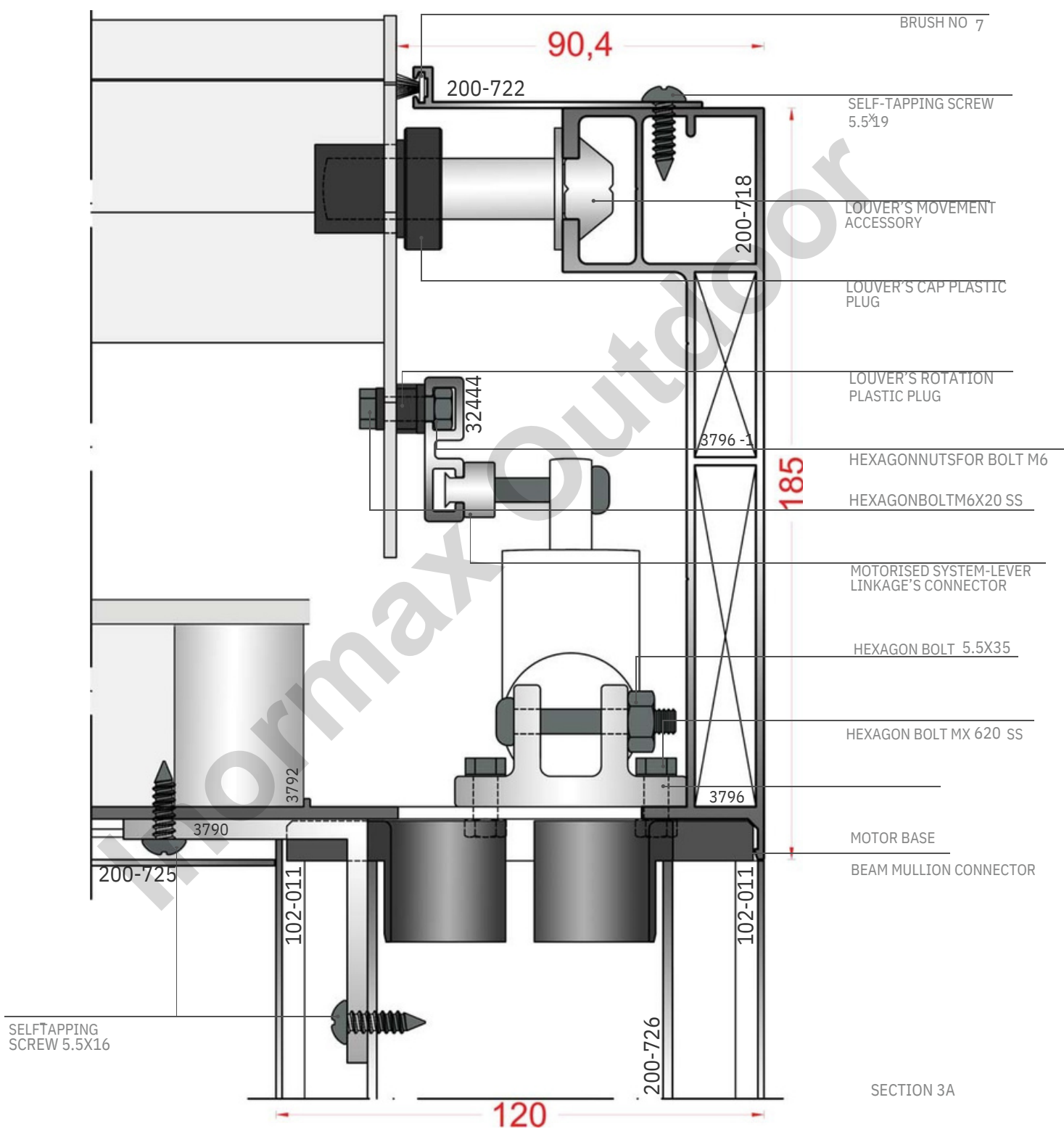
MULLION - CORE (HORIZONTAL SECTION)



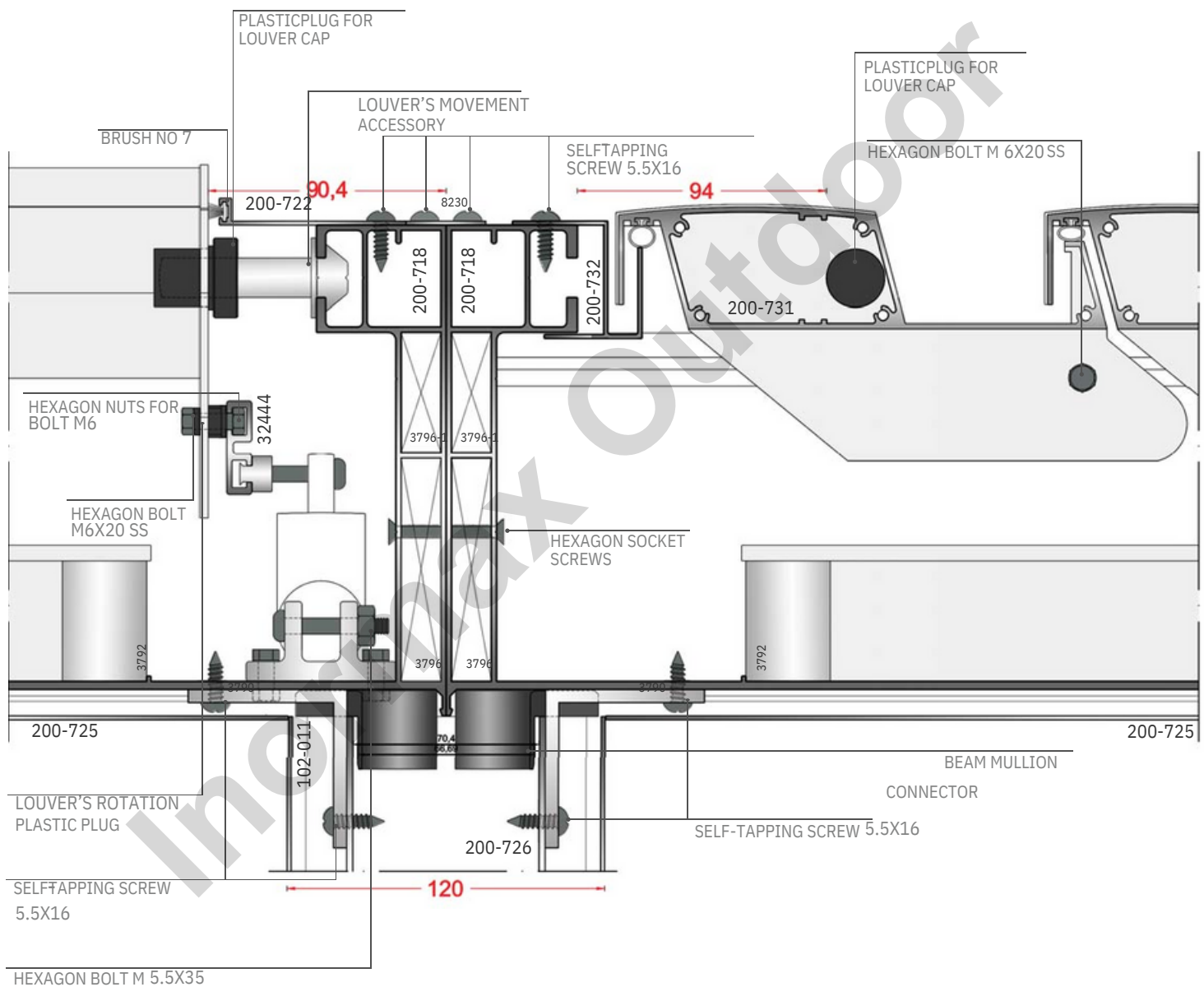
MULLION - CORE (HORIZONTAL SECTION)



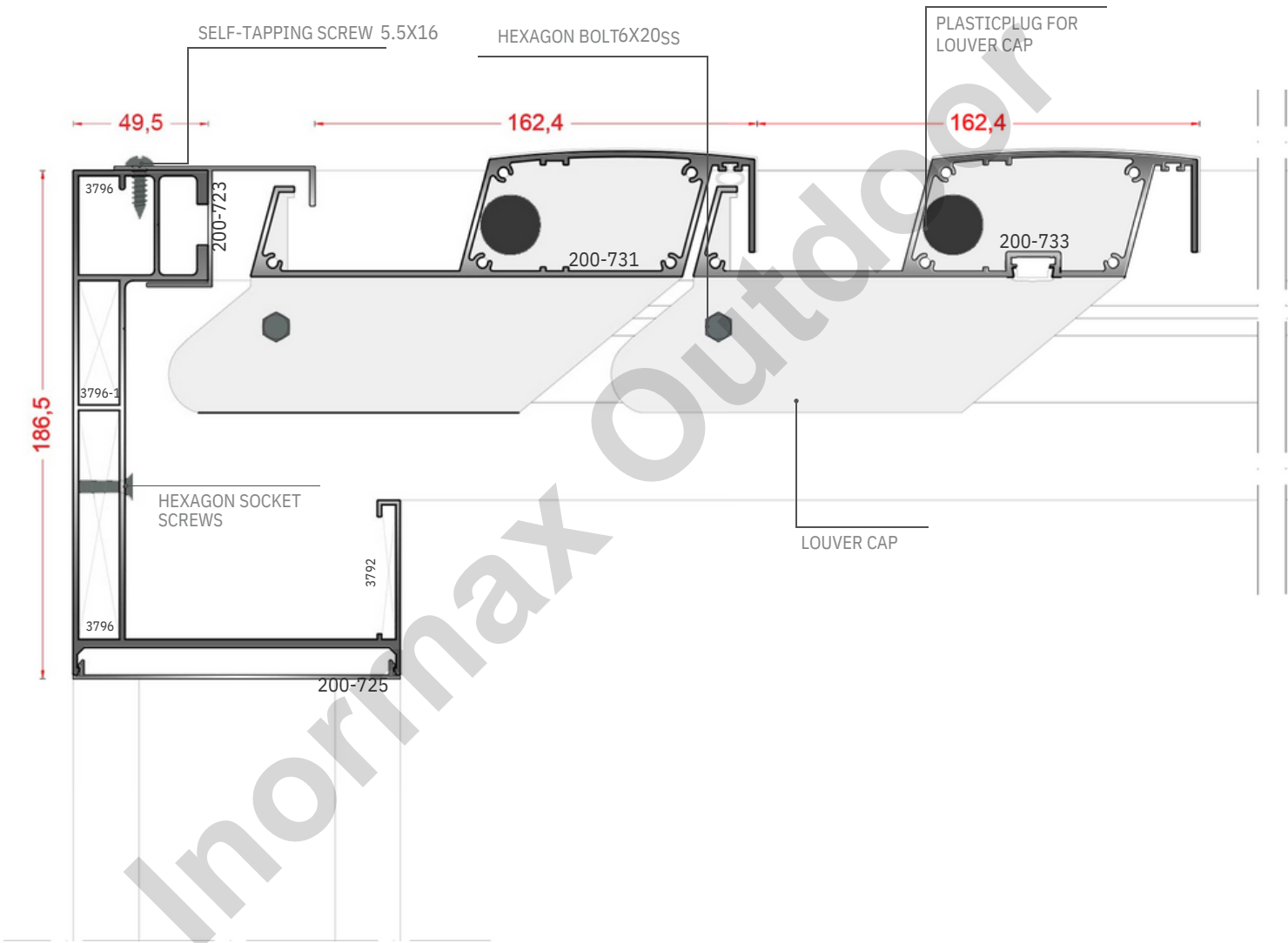
BEAM-MULLION



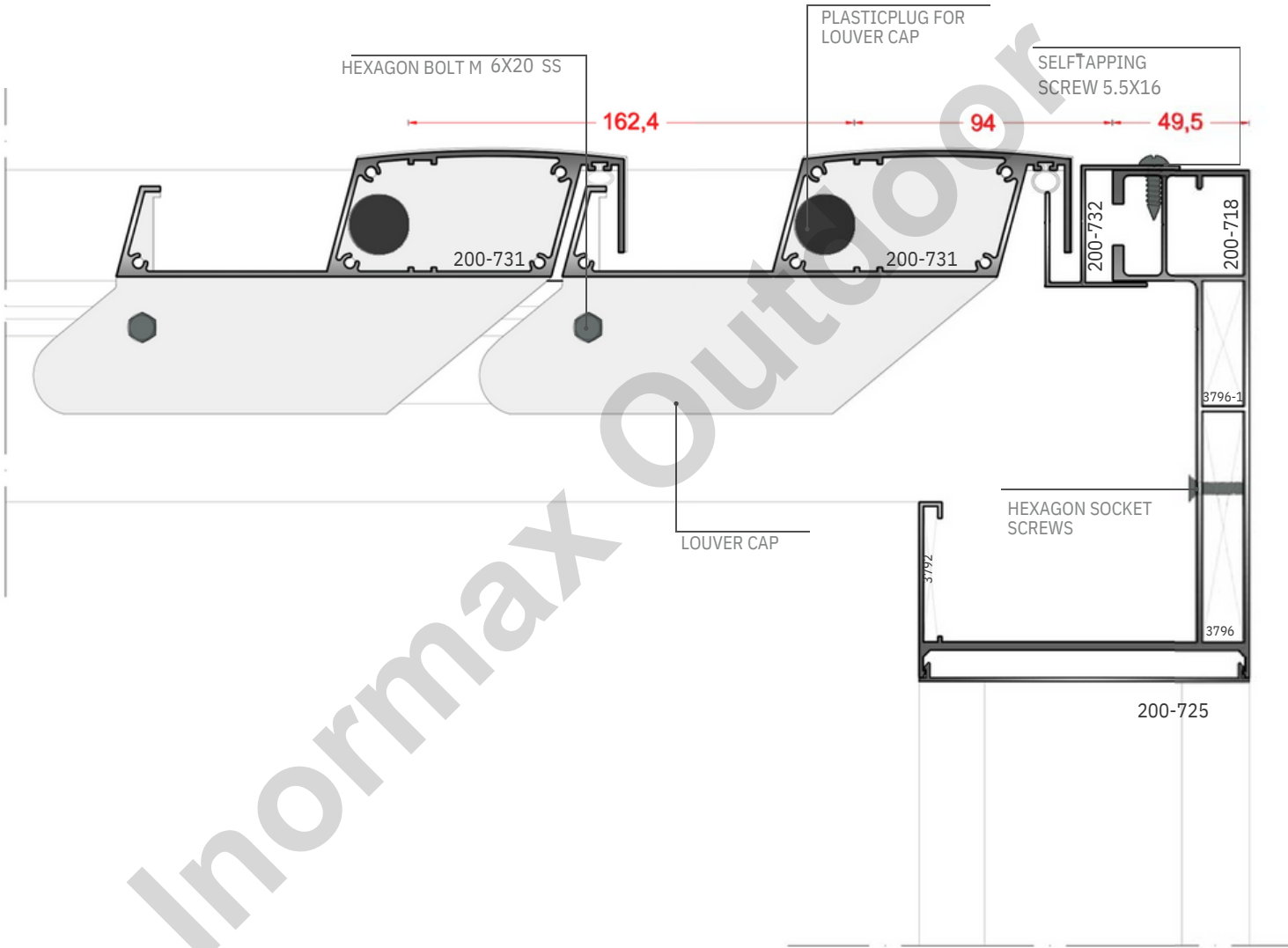
DOUBLE BEAM WITH ONE MILLION



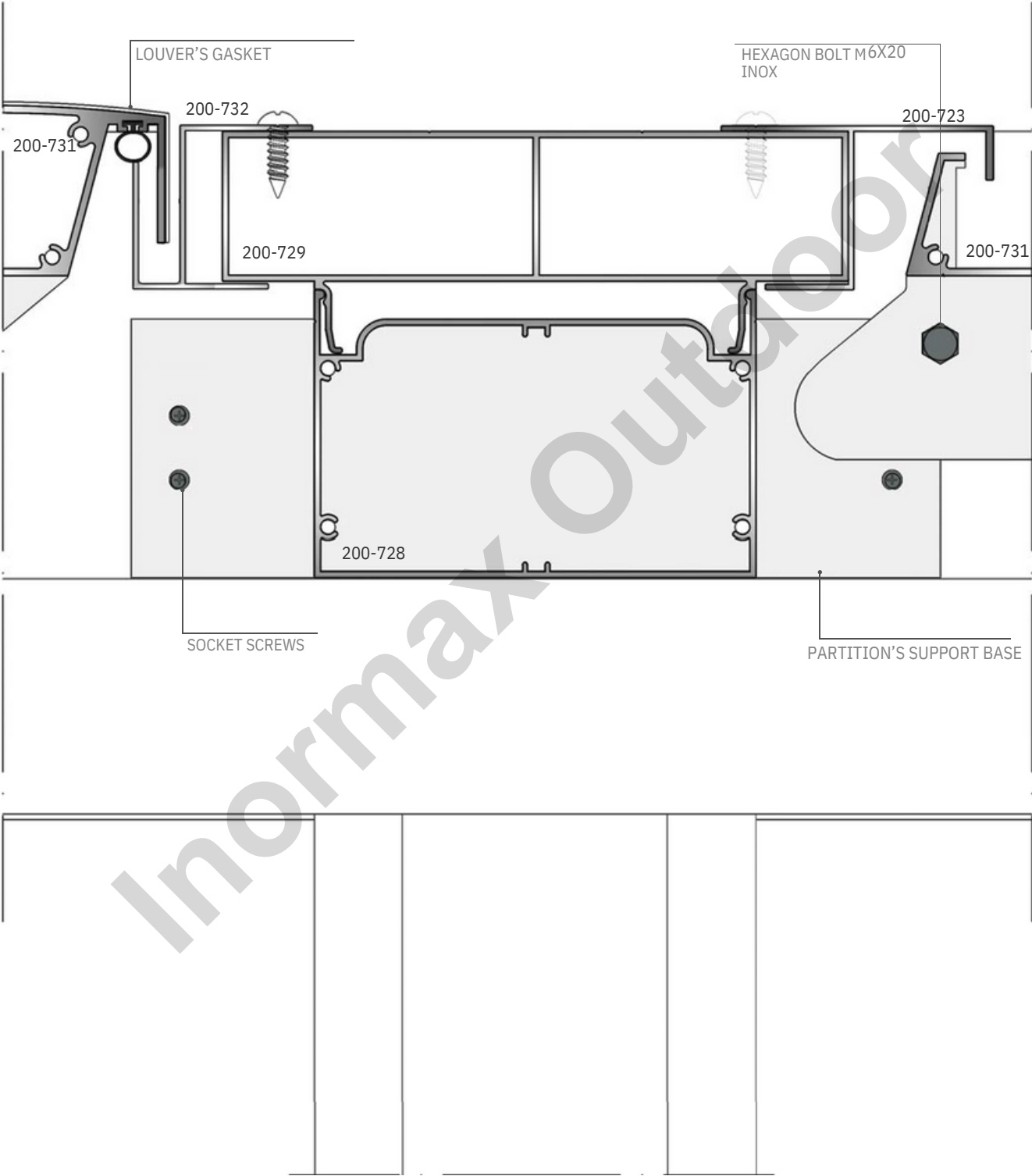
LOUVER



LOUVER



LOUVER S' P ARTITION



INSTALLATION INSTRUCTIONS

Inormax Outdoor

INSTALLATION INSTRUCTIONS



INSTALLATION INSTRUCTIONS

01_

MULLION-CORE INSTALLATION



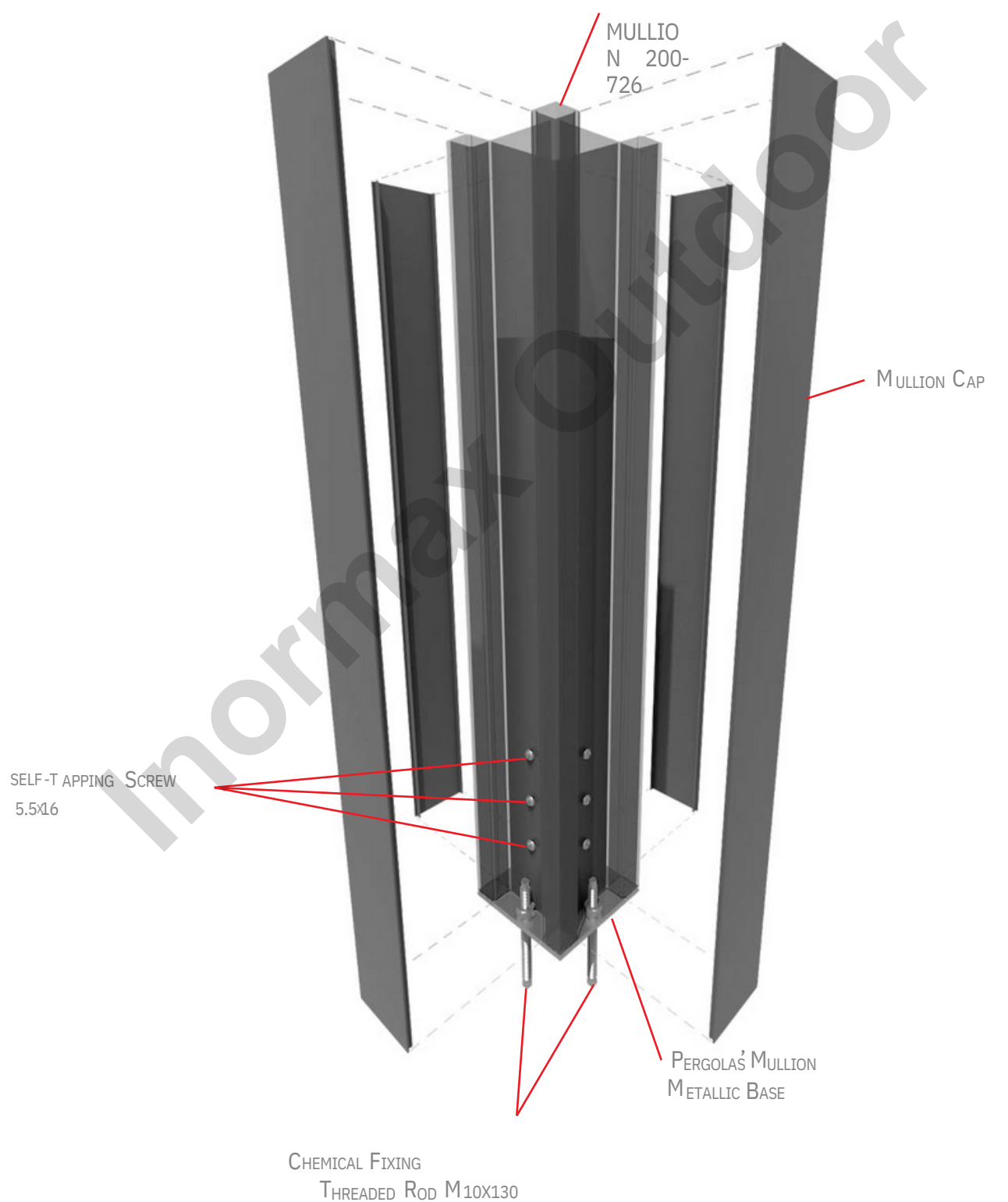
INSTALLATION INSTRUCTIONS

01_ MULLION-CORE INSTALLATION



INSTALLATION INSTRUCTIONS

01_ MULLION-CORE INSTALLATION



INSTALLATION INSTRUCTIONS

02_

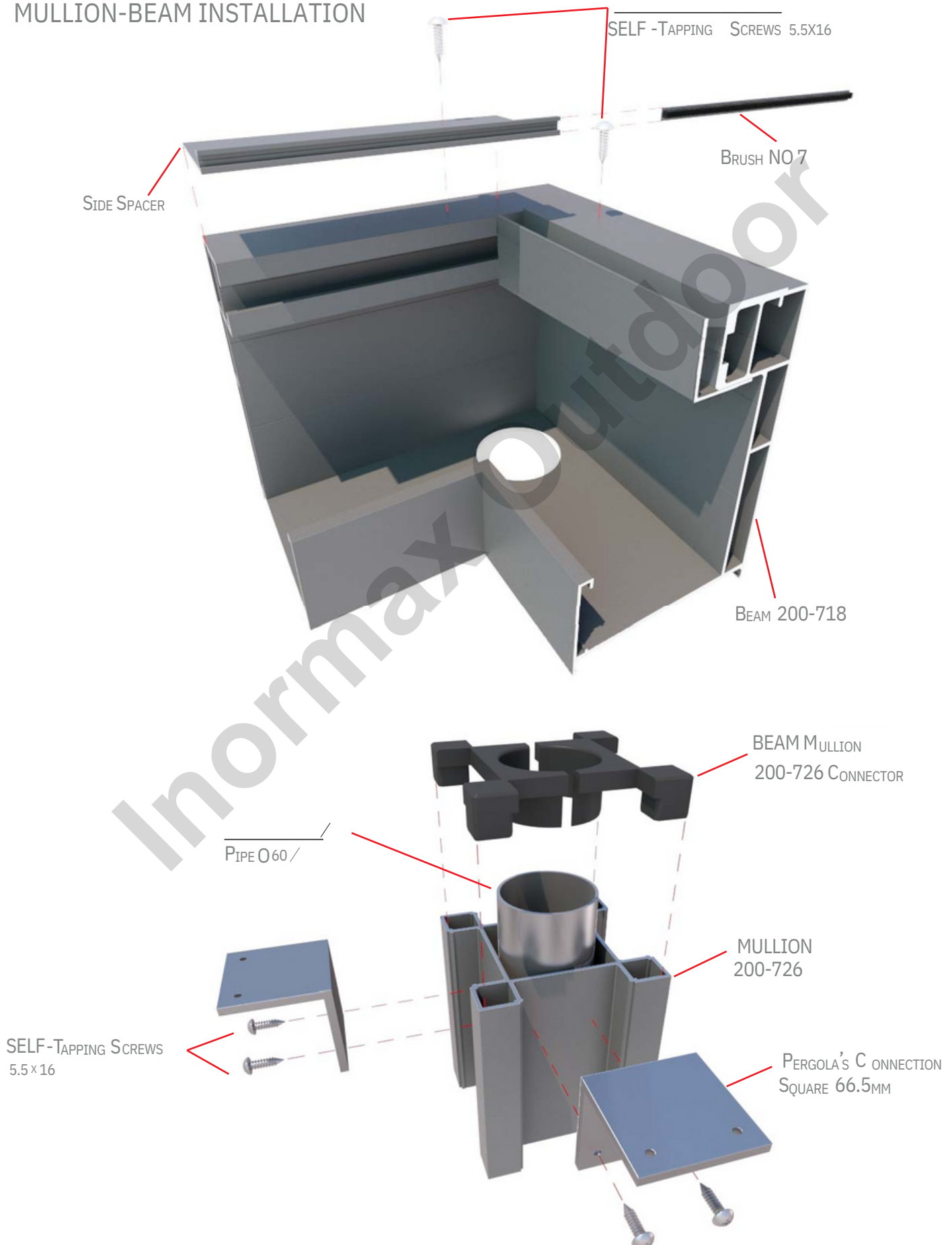
MULLION-BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

02_

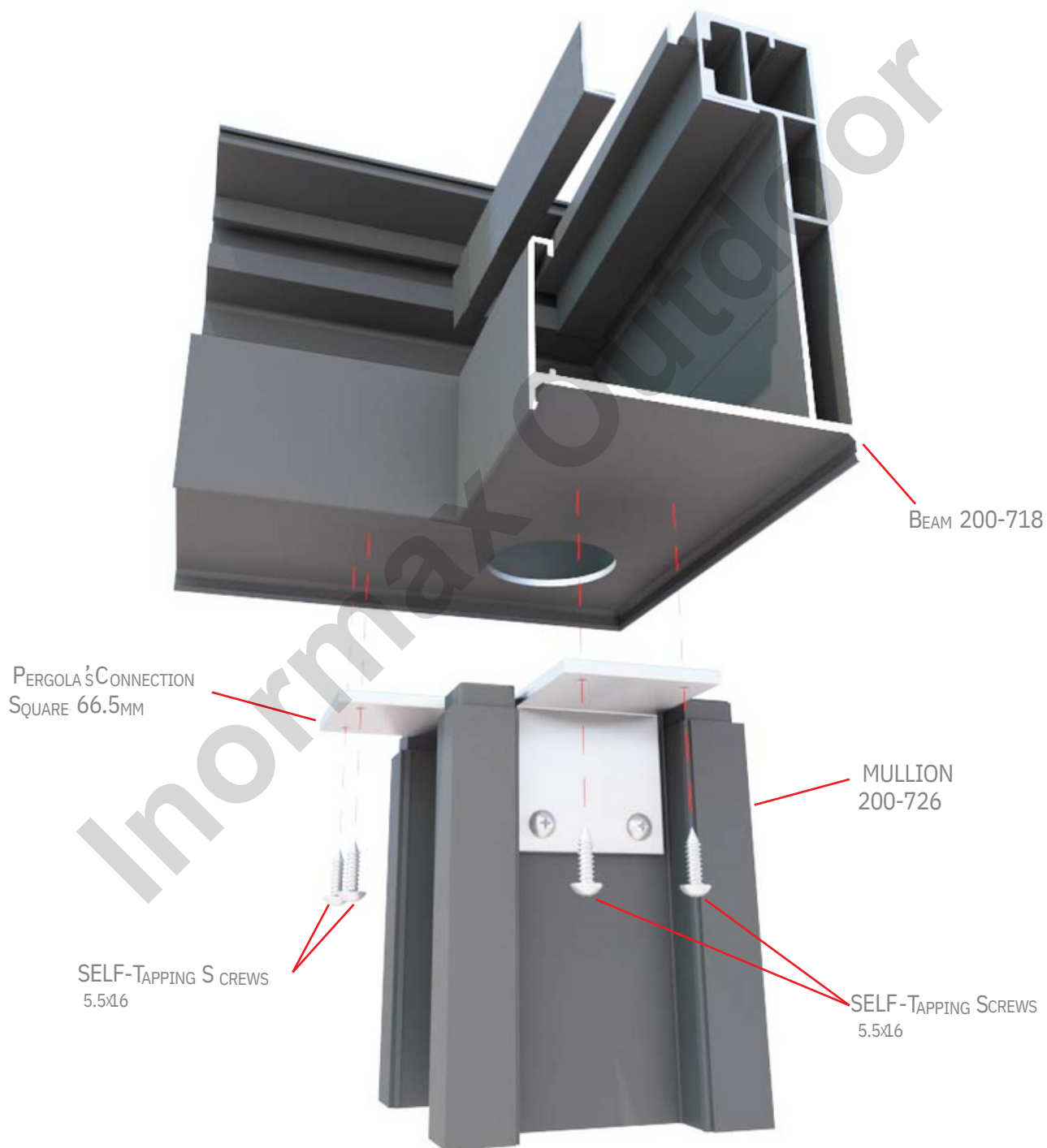
MULLION-BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

02_

MULLION-BEAM INSTALLATION



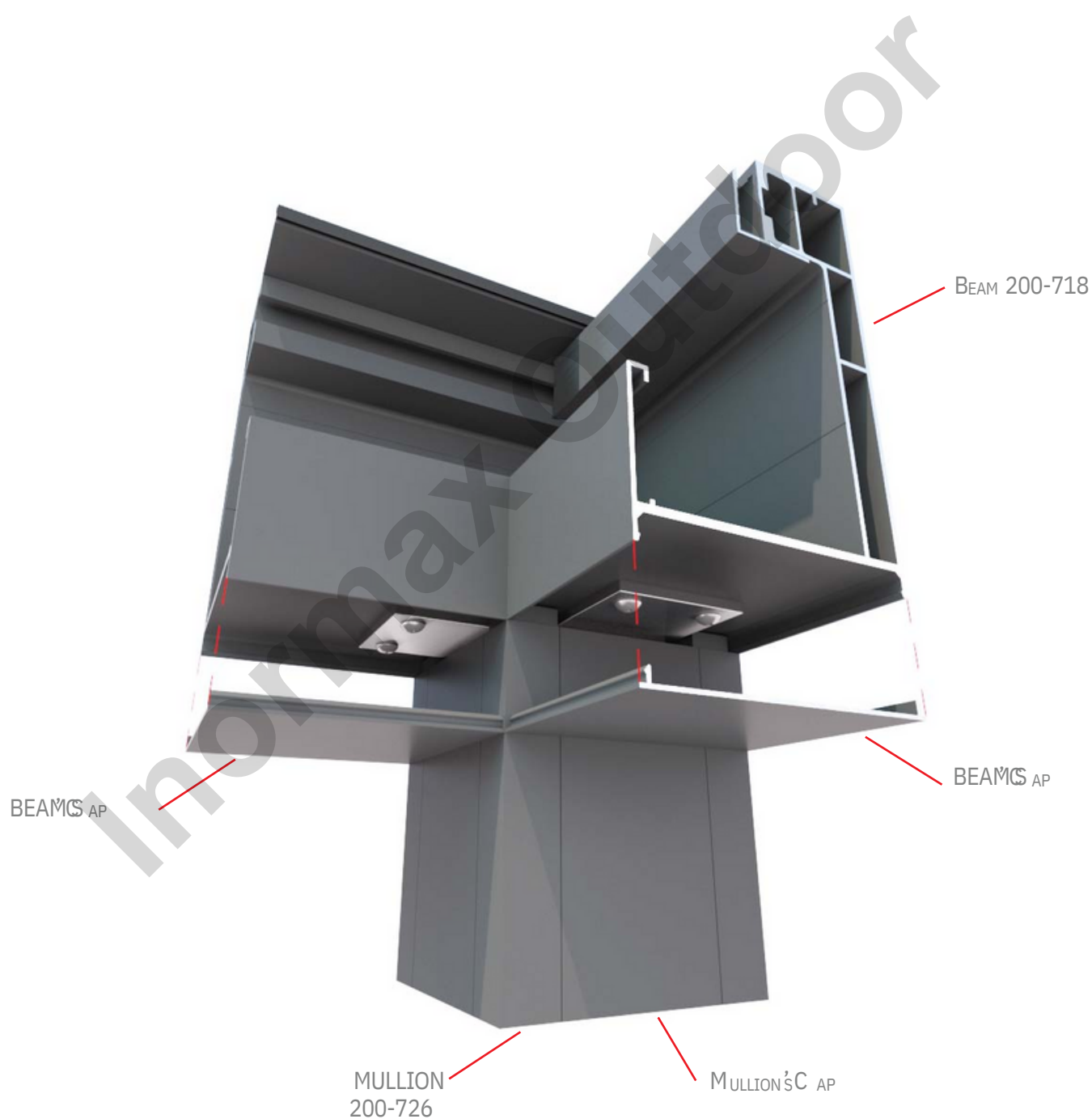
INSTALLATION INSTRUCTIONS

02_ MULLION-BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

02_ MULLION-BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

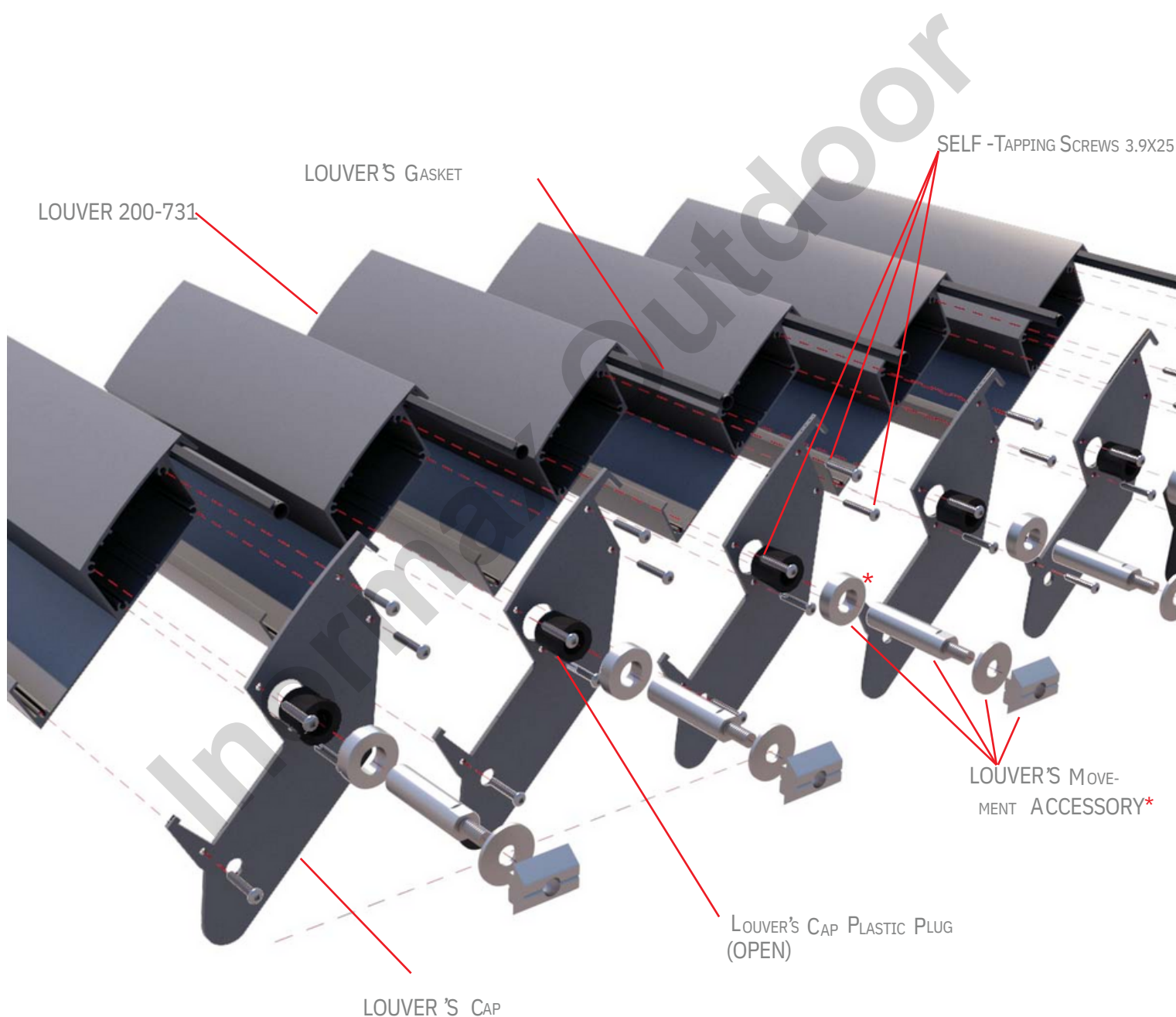
02_ MULLION-BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

03_

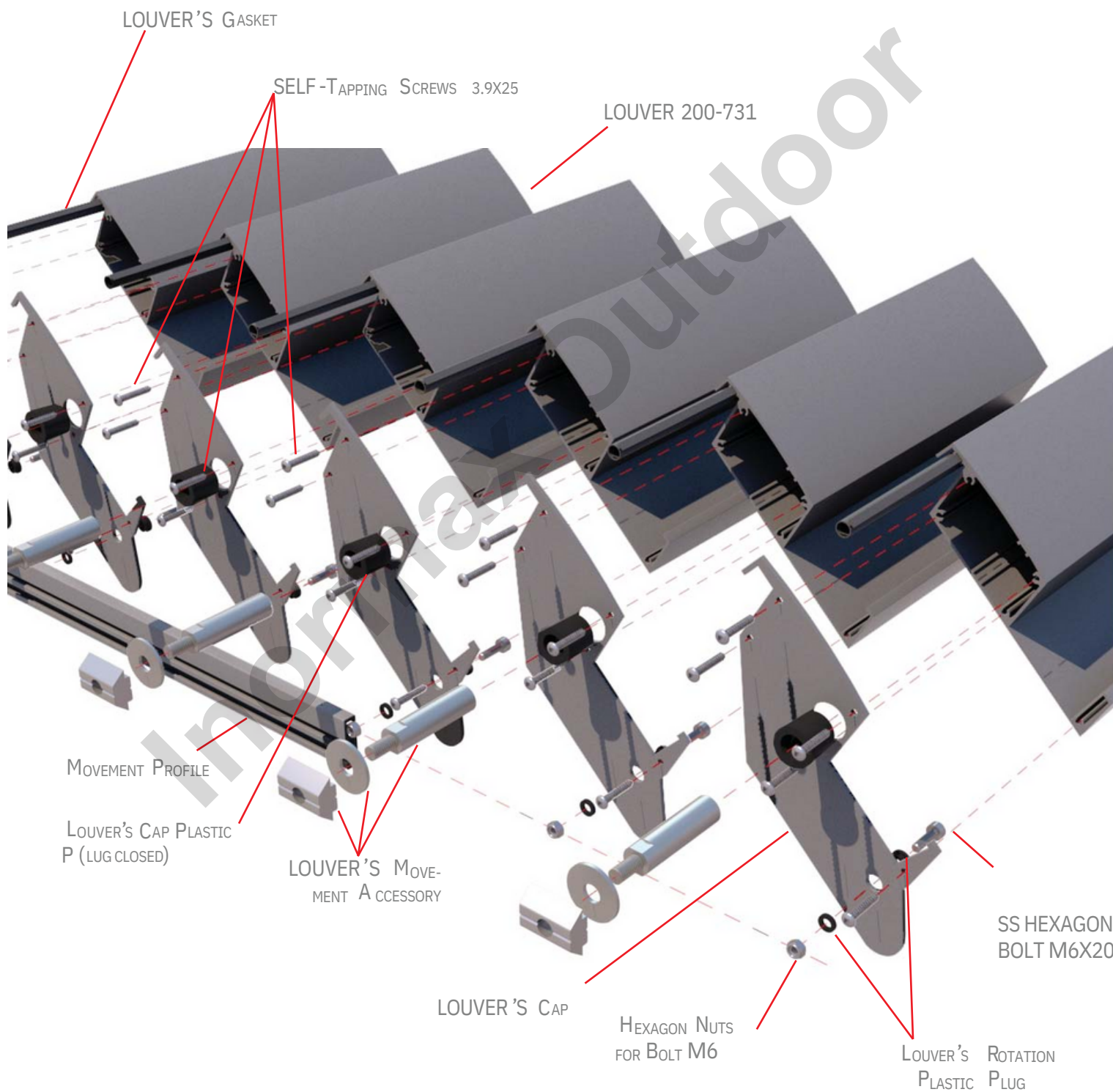
LOUVER ASSEMBLY (WITHOUT MOVEMENT PROFILE)



*THE SPACER (ALUMINIUM RING) MUST BE INSTALLED AT 1.5 MM DISTANCE FROM LOUVER'S CAP FOR THE BEST FUNCTION OF THE LOUVER.

INSTALLATION INSTRUCTIONS

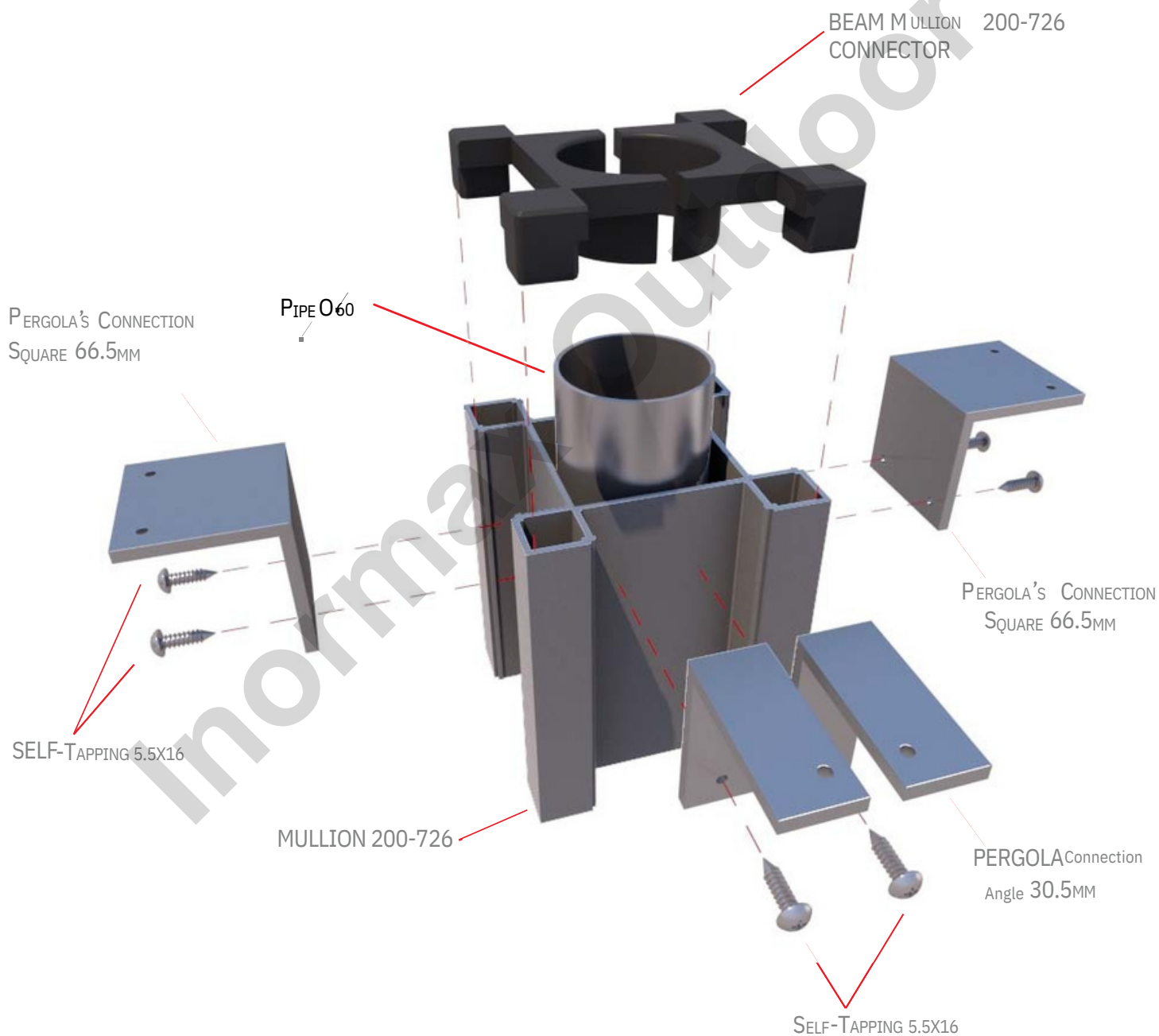
03_ LOUVER ASSEMBLY (WITH MOVEMENT PROFILE)



INSTALLATION INSTRUCTIONS

04_

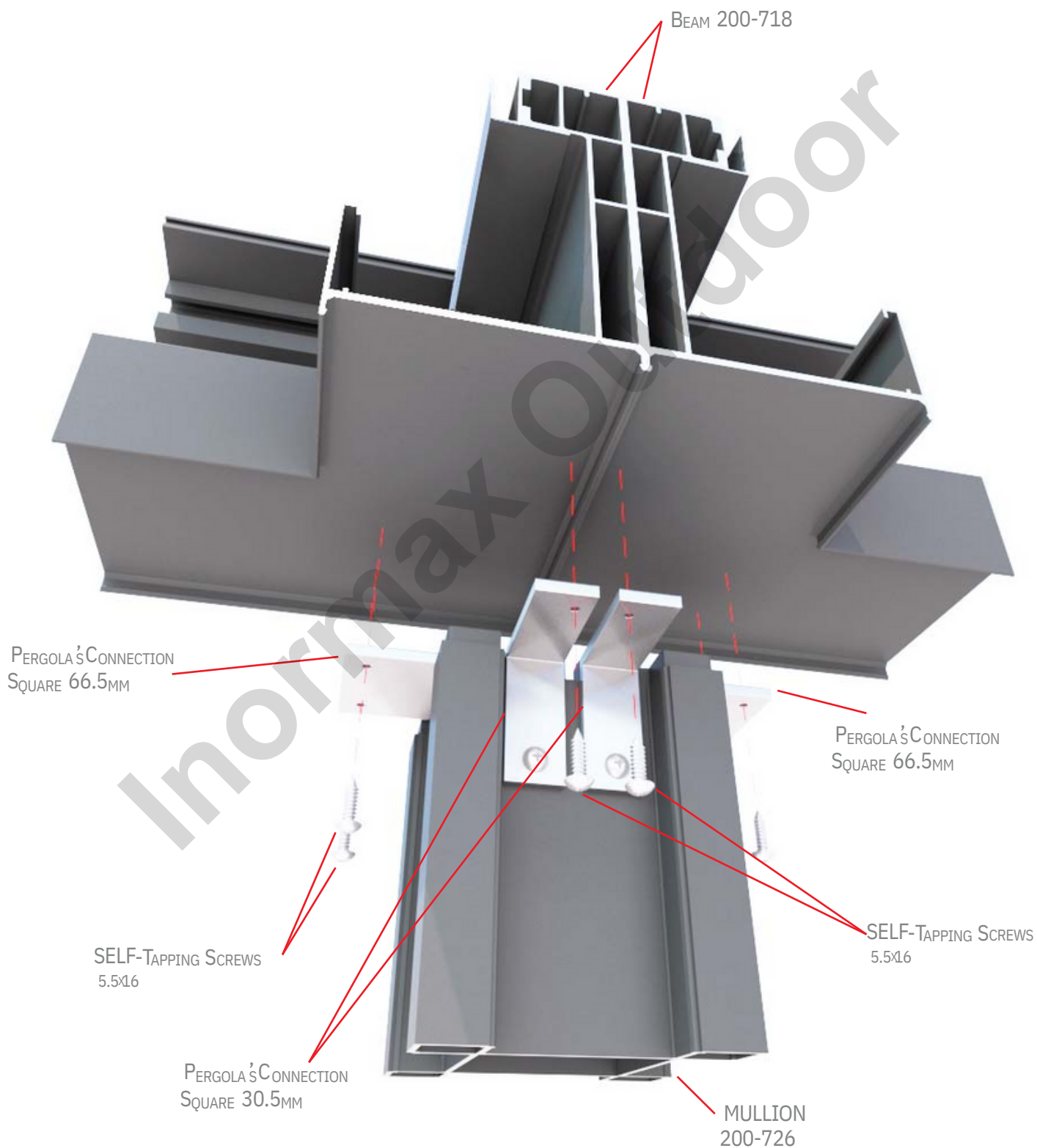
MULLION- DOUBLE BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

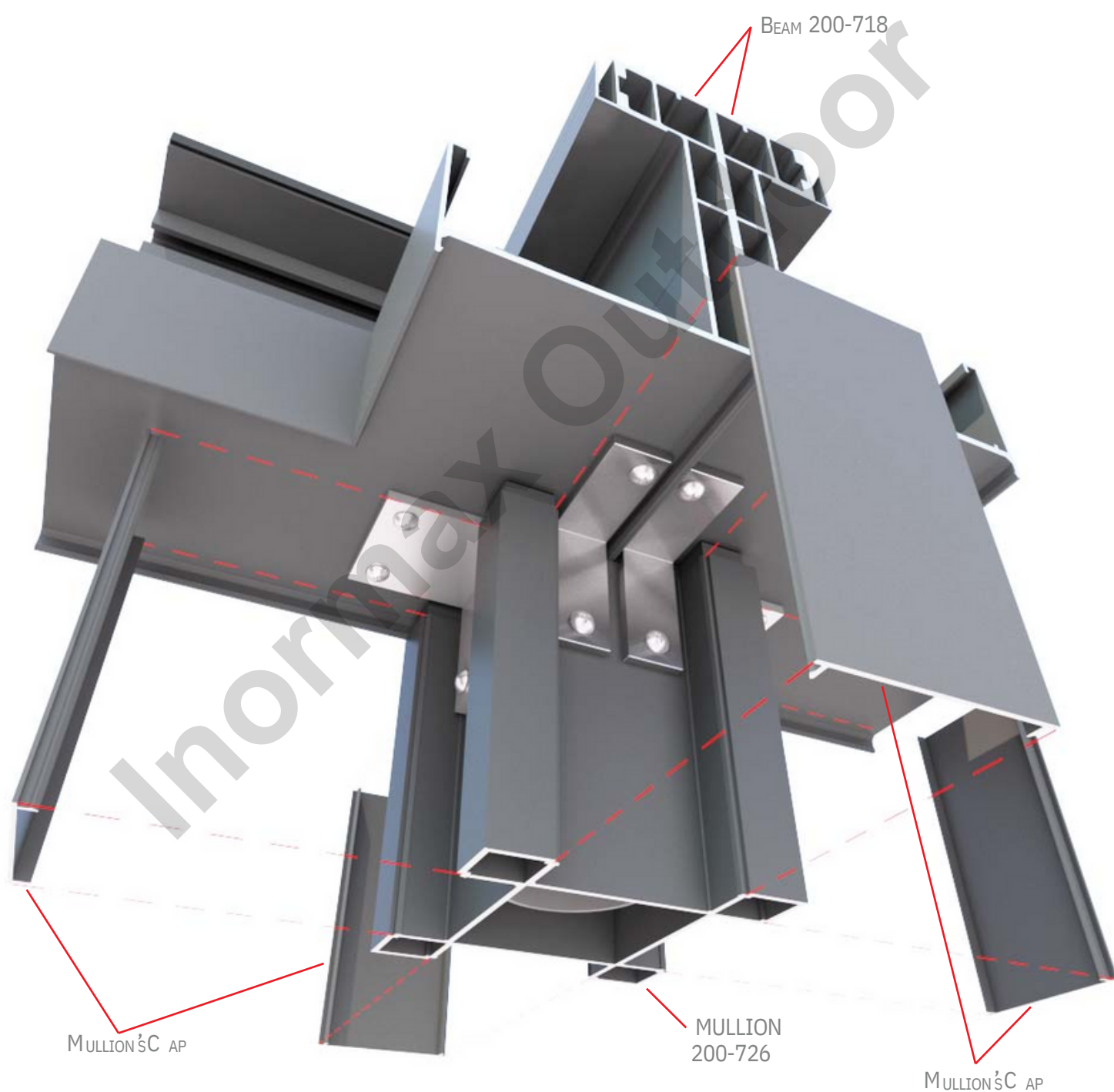
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MULLION- DOUBLE BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

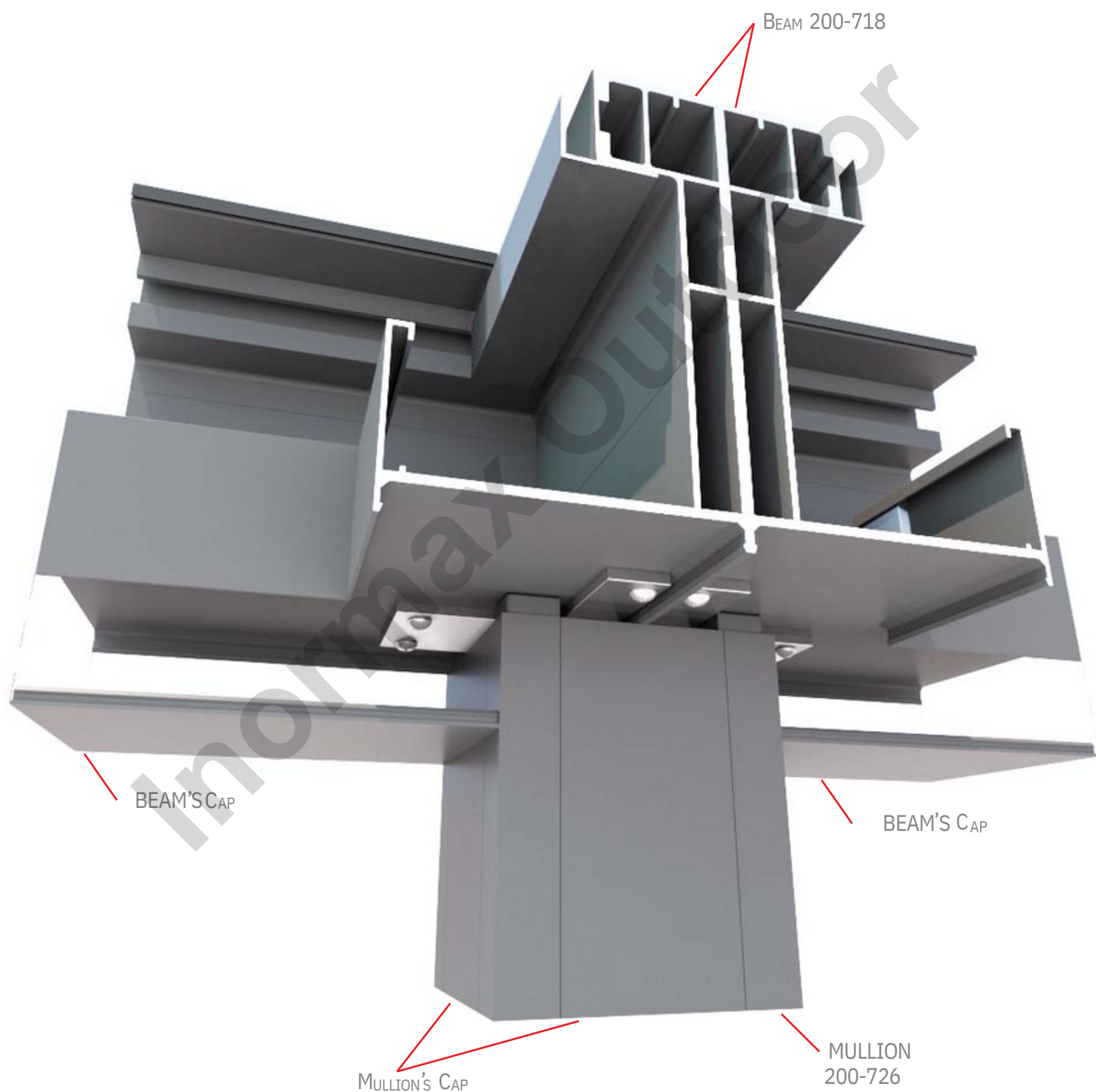
04_ MULLION- DOUBLE BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

04_

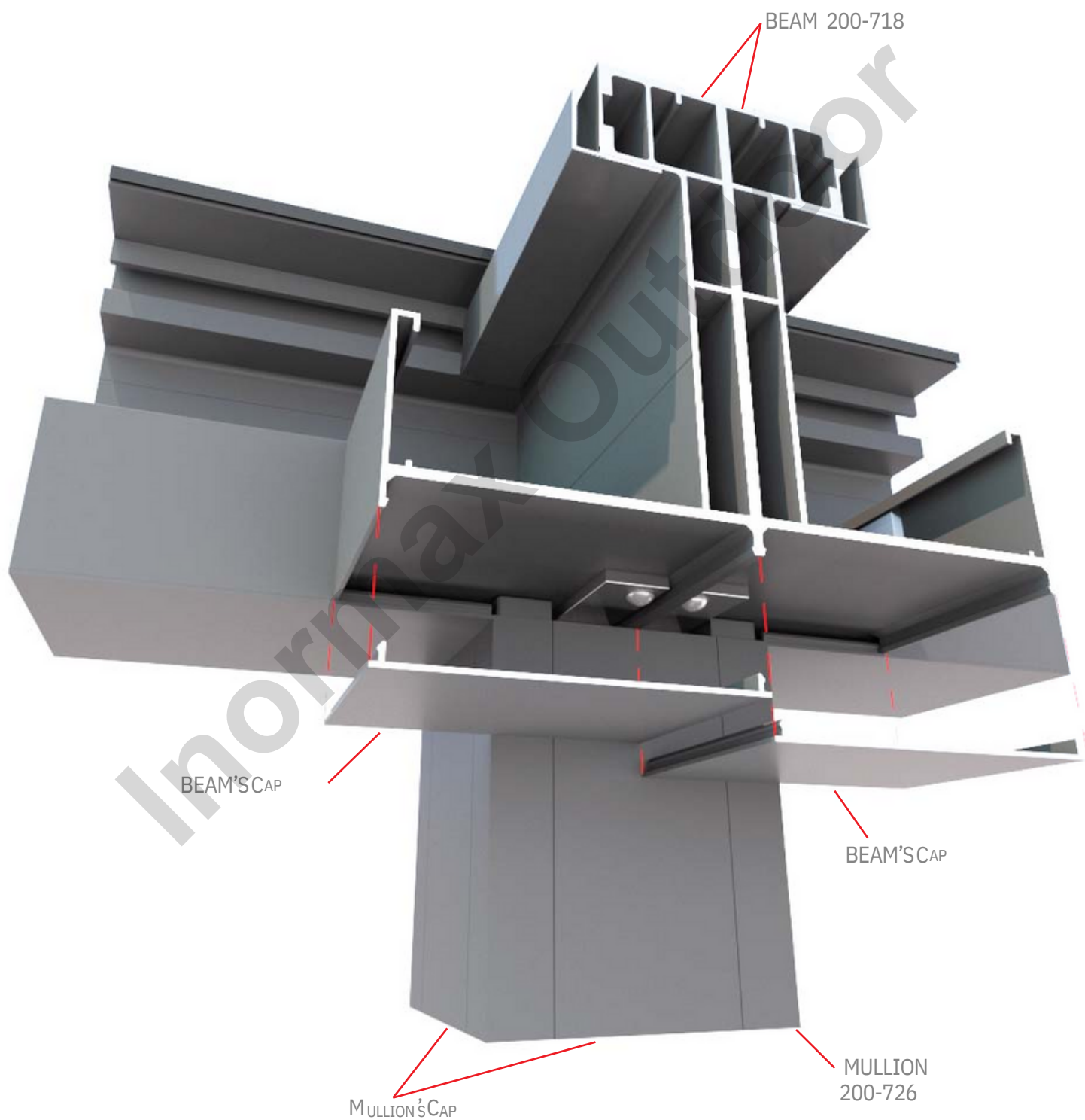
MULLION- DOUBLE BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

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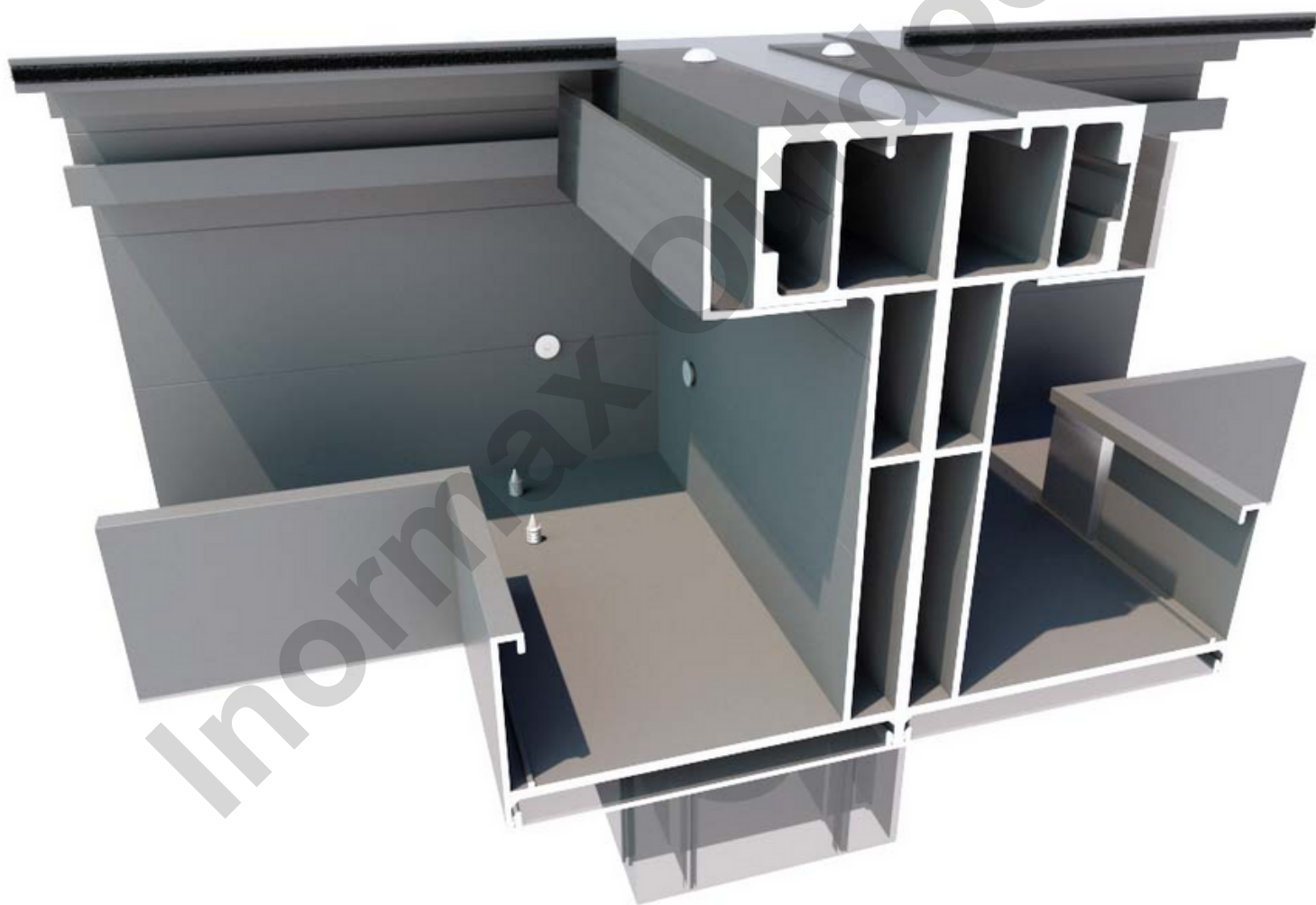
MULLION- DOUBLE BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

04_

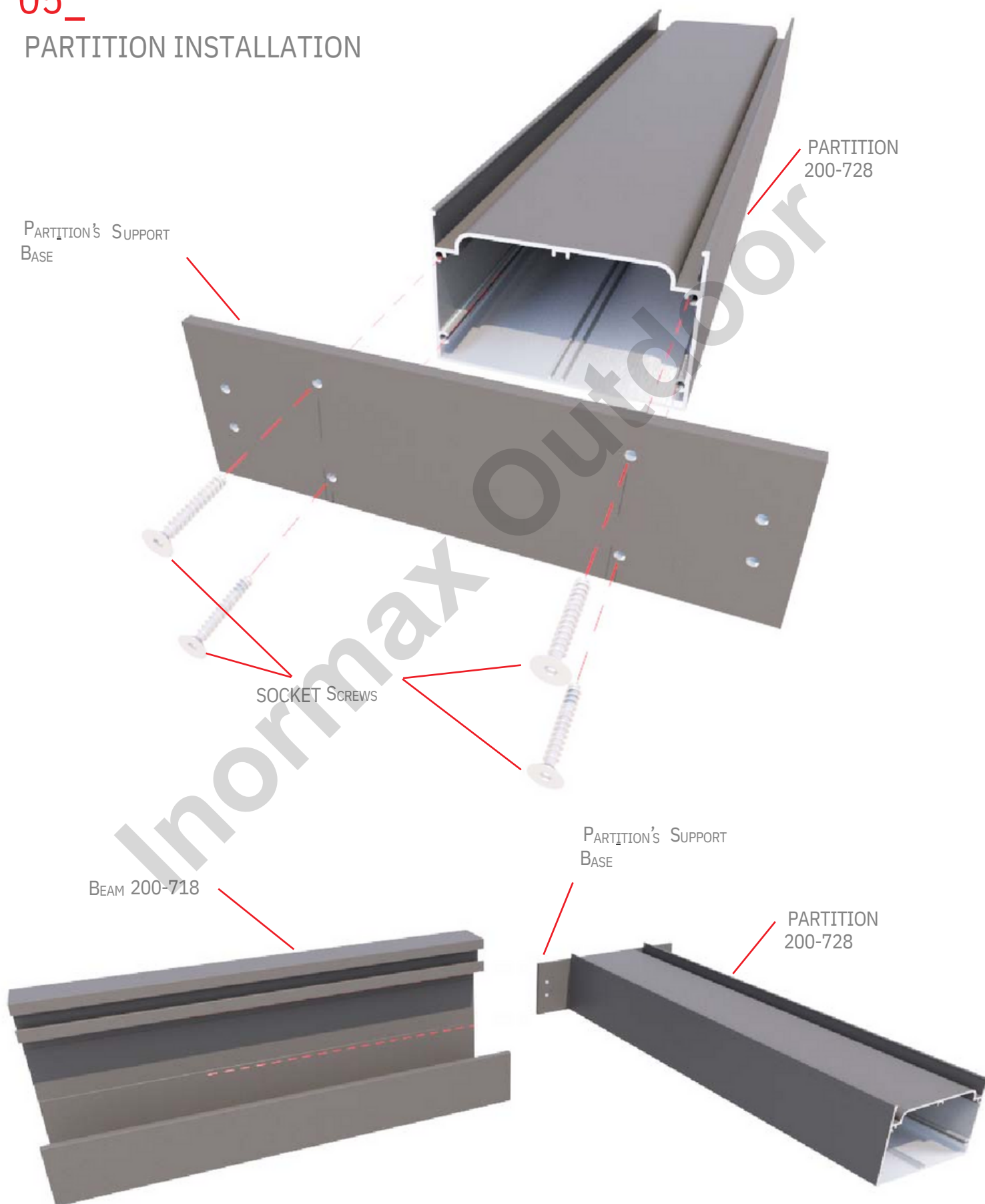
MULLION- DOUBLE BEAM INSTALLATION



INSTALLATION INSTRUCTIONS

05_

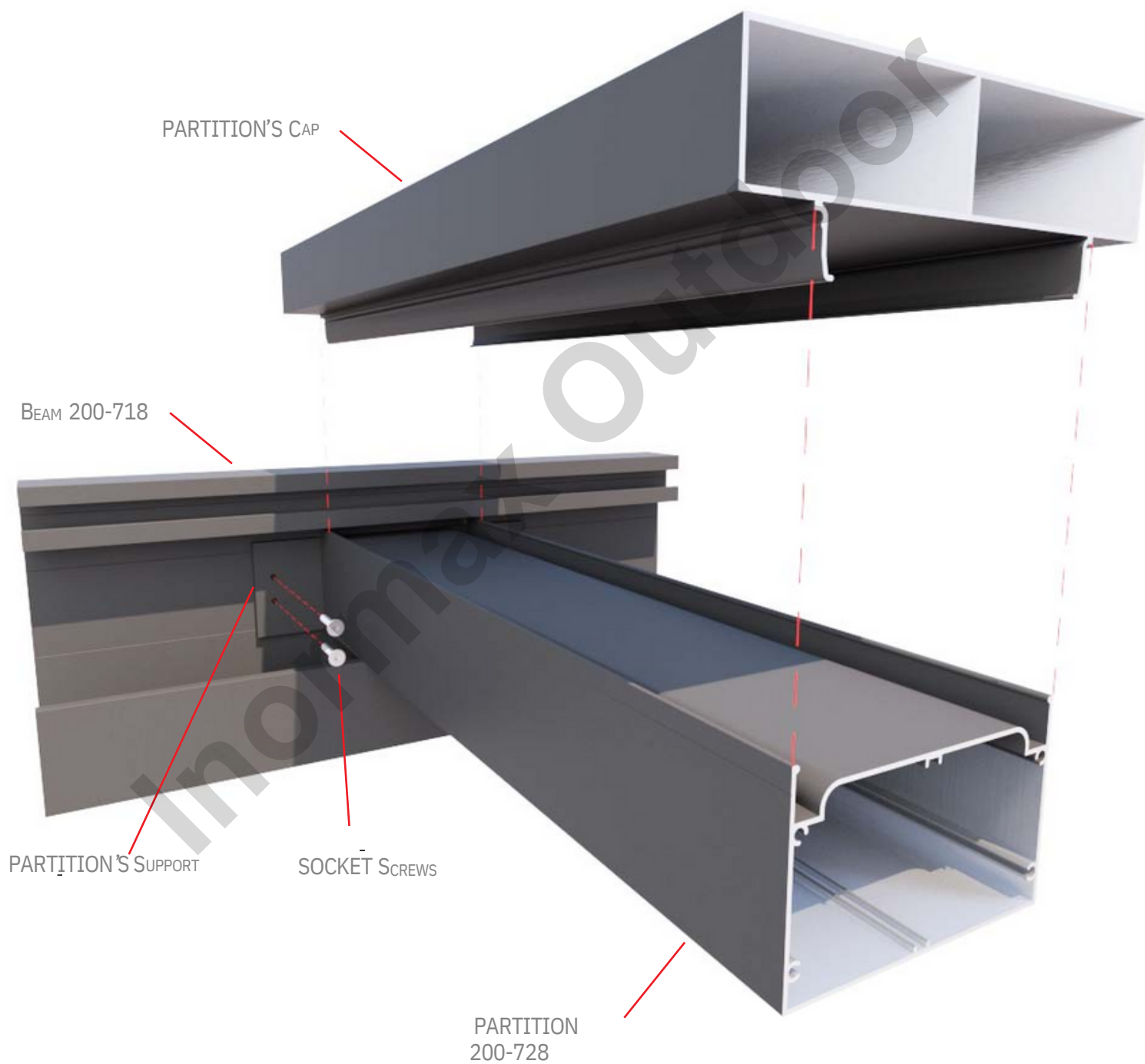
PARTITION INSTALLATION



INSTALLATION INSTRUCTIONS

05_

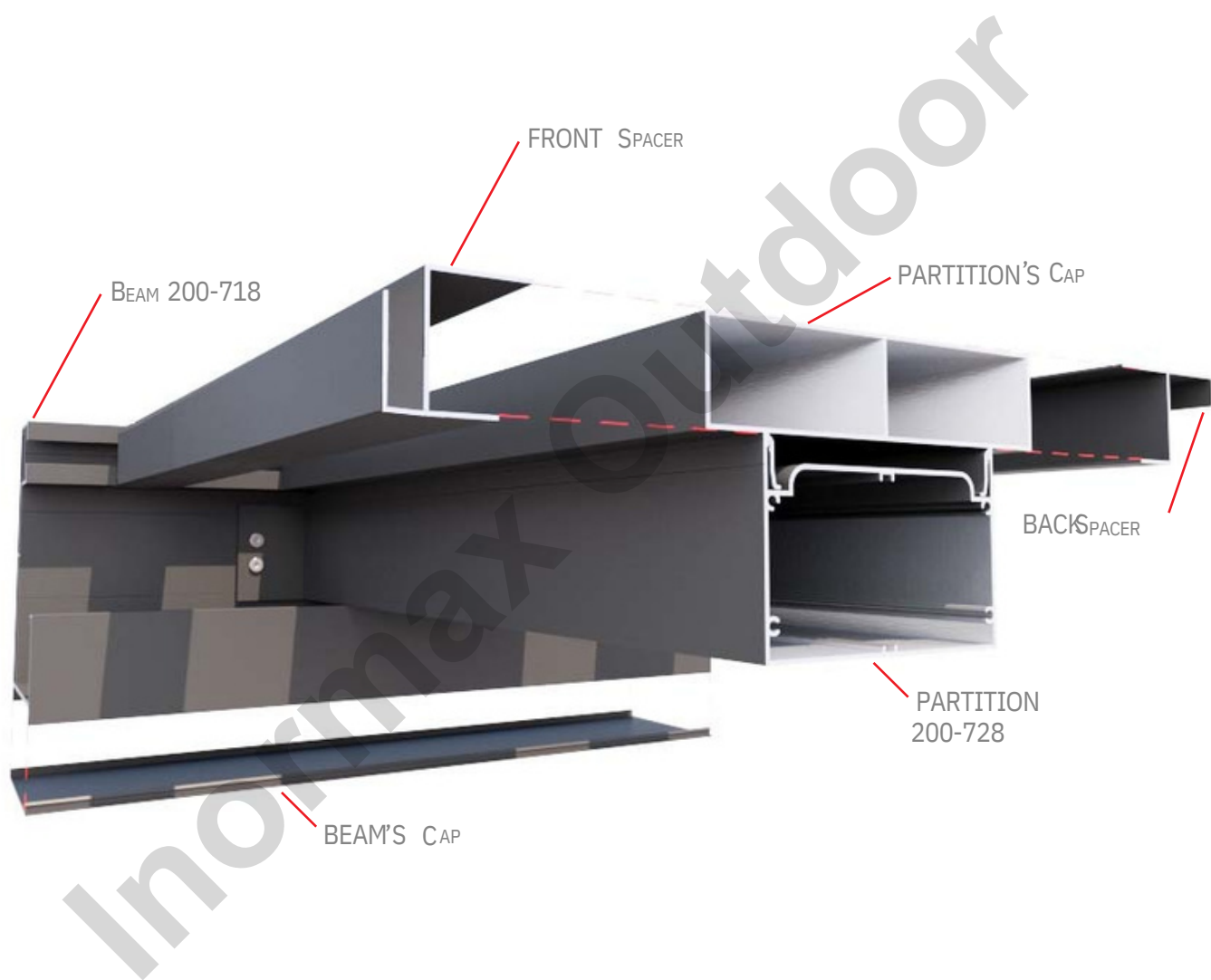
PARTITION INSTALLATION



INSTALLATION INSTRUCTIONS

05_

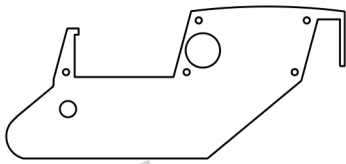
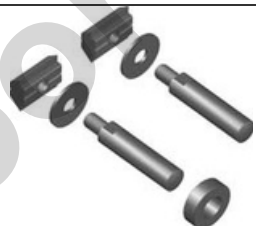
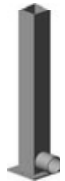
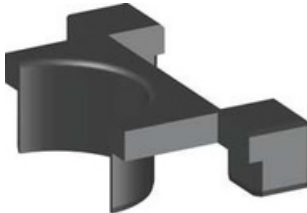
PARTITION INSTALLATION



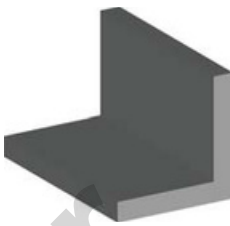
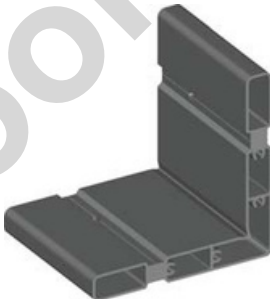
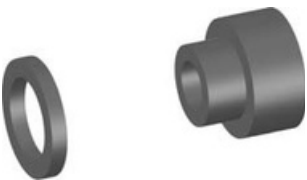
ACCESSORIES

Inormax Outdoor

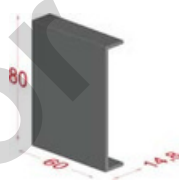
ACCESSORIES

CODE	DESCRIPTION	DRAWING
3111	ALUMINIUM LOUVER'S CAP ATTENTION! SPECIFY THE COLOUR OF YOUR CHOICE AT THE MOMENT OF THE ORDER	
3436-1	LOUVER'S MOVEMENT ACCESSORIES ATTENTION! ADD THREADLOCKER AT THE MOMENT OF INSTALLATION	
3436-3	LED LOUVER'S MOVEMENT ACCESSORIES ATTENTION! ADD THREADLOCKER AT THE MOMENT OF INSTALLATION	
3781	PERGOLA'S MULLION METALLIC BASE WITHOUT DRAINING HOLE	
3781-1	PERGOLA'S MULLION METALLIC BASE WITH DRAINING HOLE	
3789	PERGOLA'S CONNECTION SQUARE 30.5MM	
3790	PERGOLA'S CONNECTION SQUARE 66.5MM	
3791	BEAM-MULLION'S 200-726 CONNECTOR	

ACCESSORIES

CODE	DESCRIPTION	DRAWING
3792	BEAMS' 200-718 ALIGNMENT SQUARE (48.9 MM)	
3796	BEAMS' 200-718 CONNECTION SQUARE	
3796-1	CONNECTION SQUARE 200-718 / 44.8 MM	
3797-1	LOUVER'S ROTATION PLASTIC PLUG	
3797-2	LOUVER S' 200-720 CAP PLASTIC PLUG	
3116	DRAINAGE GUTTER'S CAPS (2 PIECES)	
3594	LOUVER'S GASKET	

ACCESSORIES

CODE	DESCRIPTION	DRAWING
3112	PARTITION'S SUPPORT BASE	
3113	BEAMS' CONNECTOR	
3798	PERGOLA'S MOTORIZED SYSTEM (ONE FOR EACH 152M) ATTENTION! WITH THE USE OF A SECOND MOTORIZED SYSTEM IT IS NECESSARY TO USE THE "T" PROFILE TOO!	
3798-1	MOTORIZED SYSTEM'S STRKE REDUCTION ACCESSORY	
3798-2	PERGOLA'S MOTORIZED SYSTEM BASE	
2425-1	MOTORIZED SYSTEM - LEVER LINKAGE'S CONNECTOR	
3784	LED LOUVER'S CAP	
5155	BRUSH NO 7	

ACCESSORIES

CODE	DESCRIPTION	DRAWING
1128	INOX HEXAGON BOLT DIN 557 A2 6X20	
1118	TOOTHED LOCK WASHERS CONE FOR BOLT M6	
1129	INOX NUTS A2 6X20	
3114	RECEIVER 24 VOLT	
3114-1	MINI REMOTE CONTROL	
3114-2	15CH REMOTE CONTROL	
3115	LOUVER'S MOVEMENT INSTALLATION GUIDE *AT THE BEGINNING OF THE INSTALLATION MUST BE USED THE SIDE WITH THE BIGGER LENGTH. SUBSEQUENTLY, THE GUIDE MUST BE USED ON THE OPPOSITE SIDE.	

CUTTING DIMENSIONS

Inormax Outdoor

CUTTING INSTRUCTIONS

TABLE OF DIMENSIONS AND NOOF LOUVERS

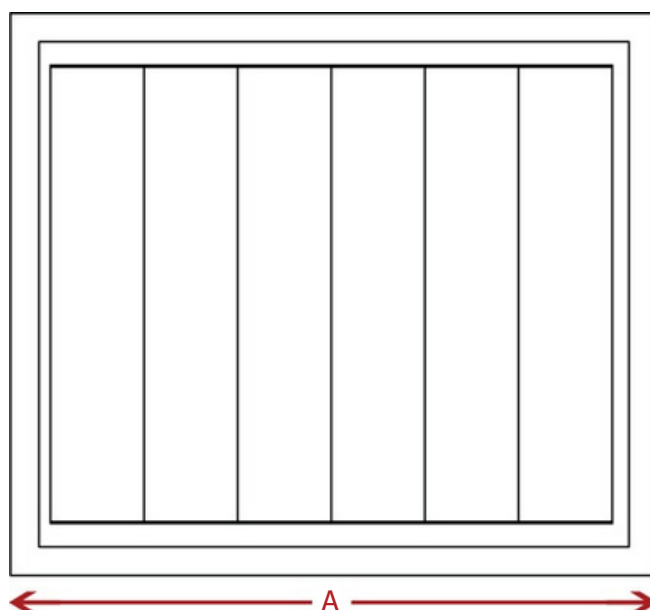
1. TABLE OF DIMENSIONS FOR PERGOLA'S CONSTRUCTIONS OF ONE FRAME

DIMENSION A (MM)	NOOF LOUVERS		DIMENSIONS A (MM)	NOOF LOUVERS
1440-1470	8		3880-3910	23
1610-1640	9		4040-4070	24
1770-1800	10		4210-4230	25
1930-1960	11		4370-4400	26
2090-2120	12		4530-4560	27
2260-2290	13		4690-4720	28
2420-2450	14		4850-4880	29
2580-2610	15		5010-5030	30
2740-2770	16		5180-5210	31
2910-2930	17		5340-5370	32
3070-3100	18		5500-5530	33
3230-3260	19		5670-5700	34
3390-3420	20		5830-5860	35
3560-3580	21		5990-6020	36
3720-3750	22			

*DIMENSIONS ARE TAKEN AT THE EXTERNAL SIDE OF THE CONSTRUCTION.

**FOR DIMENSIONS THAT DOES NOT EXIST IN THE TABLE, IS SUGGESTED

THE USE OF RECTANGULAR TUBES TO COVER THE GAP.



CUTTING INSTRUCTIONS

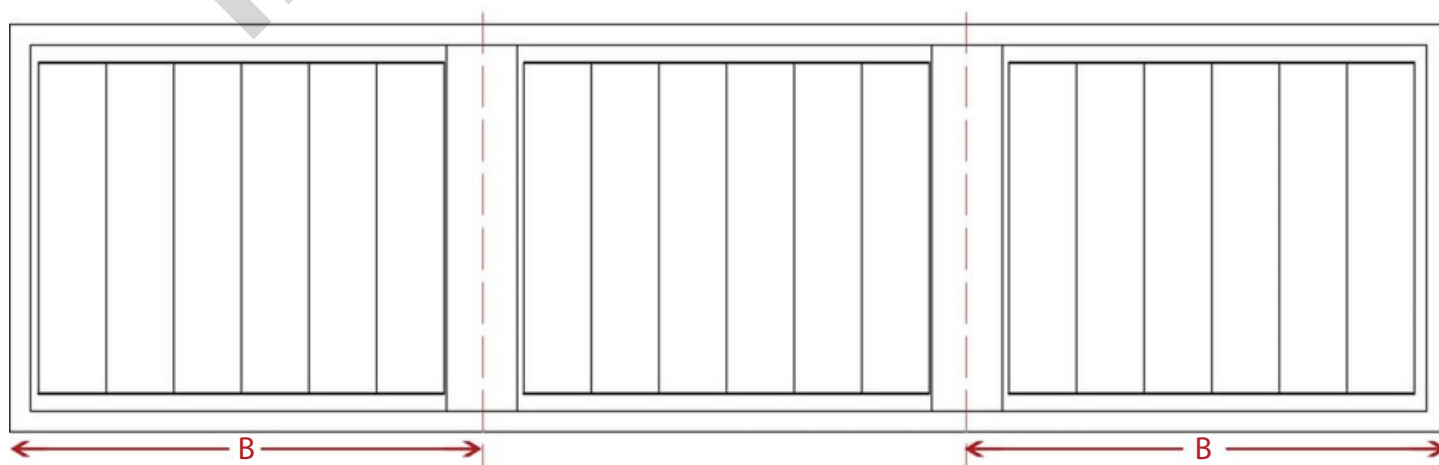
TABLE OF DIMENSIONS AND NOOF LOUVERS

2. TABLE OF DIMENSIONS FOR PERGOLA'S CONSTRUCTIONS OF ONE FRAME (BEAM-PARTITION)

DIMENSION B (MM)	NOOF LOUVERS		DIMENSIONS B (MM)	NOOF LOUVERS
2450-2480	14		4240-4270	25
2610-2640	15		4400-4430	26
2780-2800	16		4560-4590	27
2940-2970	17		4730-4750	28
3100-3130	18		4890-4920	29
3260-3290	19		5050-5080	30
3430-3450	20		5210-5240	31
3590-3620	21		5380-5410	32
3750-3780	22		5540-5570	33
3910-3940	23		5700-5730	34
4080-4100	24		5860-5890	35

*DIMENSIONS ARE TAKEN FROM THE EXTERNAL SIDE OF THE BEAM TO THE MIDDLE OF THE PARTITION.

**FOR DIMENSIONS THAT DOES NOT EXIST IN THE TABLE, ISSUGGESTED THE USE OF RECTANGULAR TUBES TO COVER THE GAP.



CUTTING INSTRUCTIONS

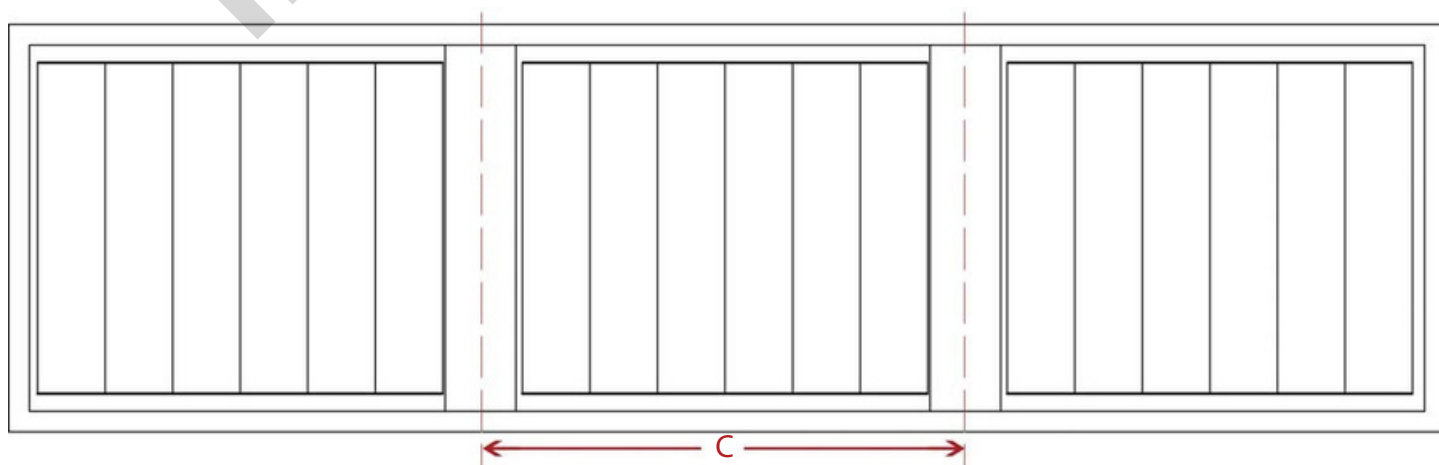
TABLE OF DIMENSIONS AND NOOF LOUVERS

3. TABLE OF DIMENSIONS FOR PERGOLA'S CONSTRUCTIONS OF ONE FRAME (BEAM-PARTITION)

DIMENSION C (MM)	NOOF LOUVERS		DIMENSION C (MM)	NOOF LOUVERS
2490-2520	14		4280-4300	25
2650-2680	15		4440-4460	26
2810-2840	16		4600-4630	27
2980-3000	17		4760-4790	28
3140-3160	18		4930-4950	29
3230-3260	19		5090-5110	30
3460-3490	20		5250-5280	31
3630-3650	21		5410-5440	32
3790-3810	22		5580-5600	33
3950-3980	23		5740-5760	34
4110-4140	24		5900-5930	35

* THE DIMENSIONS ARE TAKEN FROM THE MIDDLE OF ONE PARTITION TO THE MIDDLE OF THE OTHER

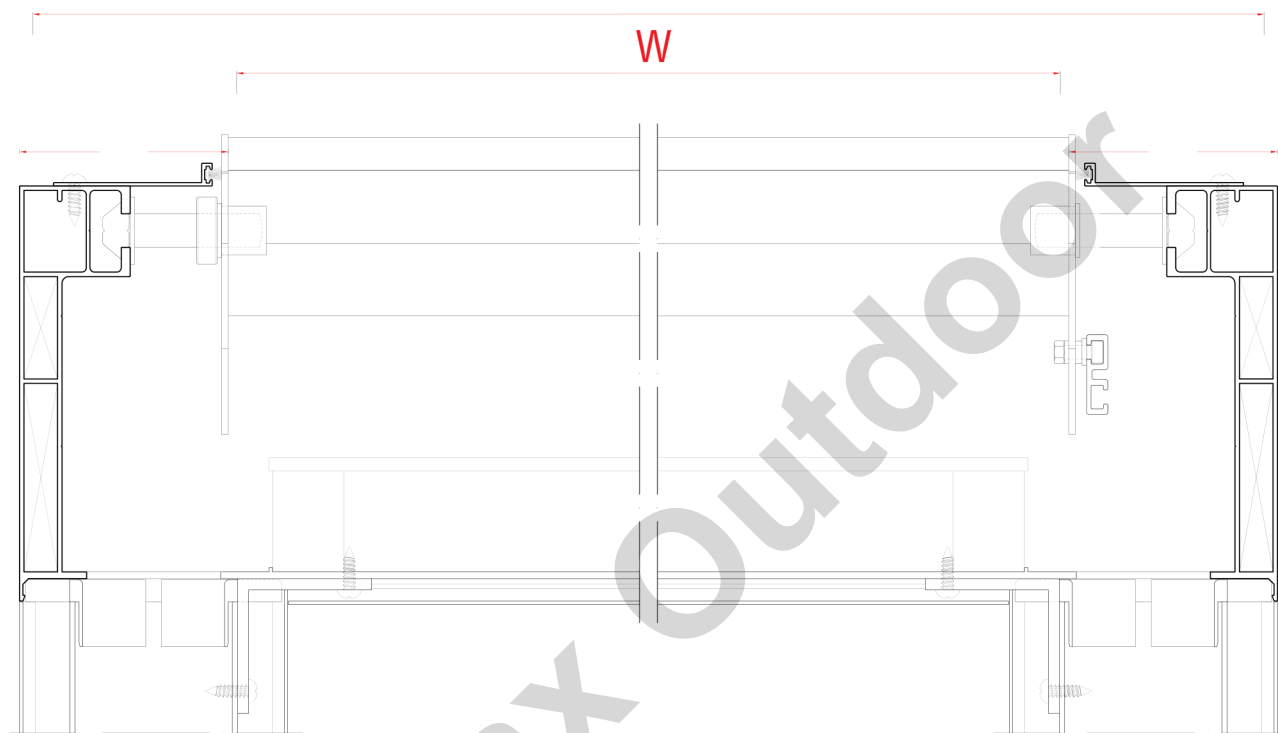
** FOR DIMENSIONS THAT DOES NOT EXIST IN THE TABLE, IS SUGGESTED THE USE OF RECTANGULAR TUBES TO COVER THE GAP.



CUTTING INSTRUCTIONS

LOUVER'S CUTTING
DIMENSION

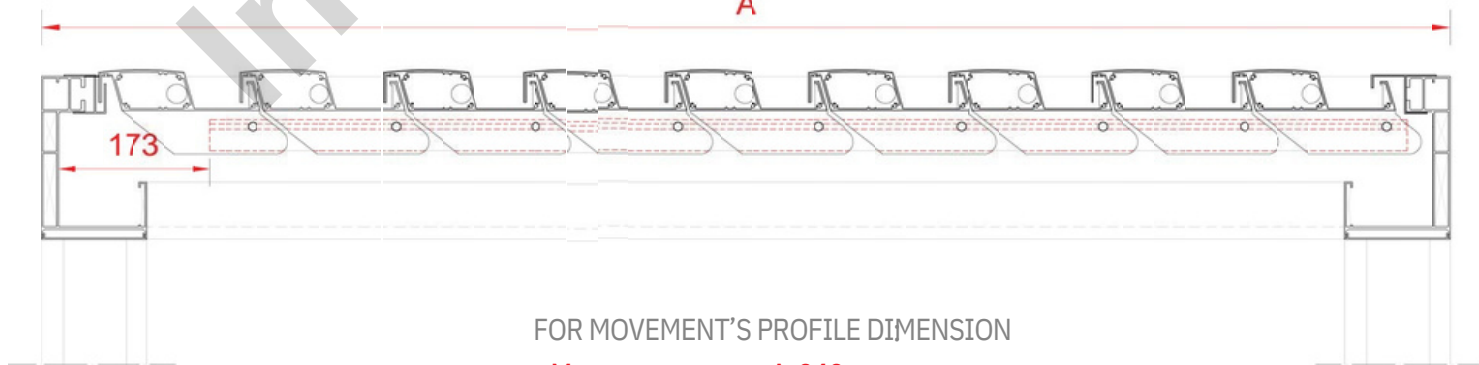
L



FOR LOUVER'S CALCULATION (**W**): FROM THE WHOLE LENGTH OF THE LOUVER (**L**), SUBTRACT 187MM.

MOVEMENT'S PROFILE CUTTING DIMENSION

A



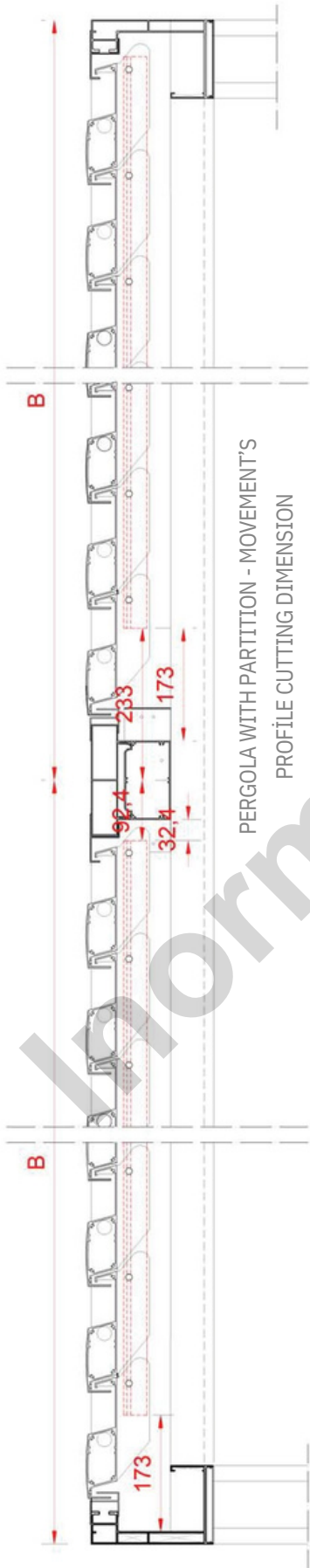
FOR MOVEMENT'S PROFILE DIMENSION

MOVEMENT PROFILE = A-240MM

INSTALLATION MOVEMENT PROFILE: THE PROFILE MUST BE INSTALLED AT 173MM FROM THE BEAM'S

INSIDE (**ATTENTION!** THE LOUVER'S ROTATION MUST BE AS IN THE DRAWING)

CUTTING
INSTRUCTIONS



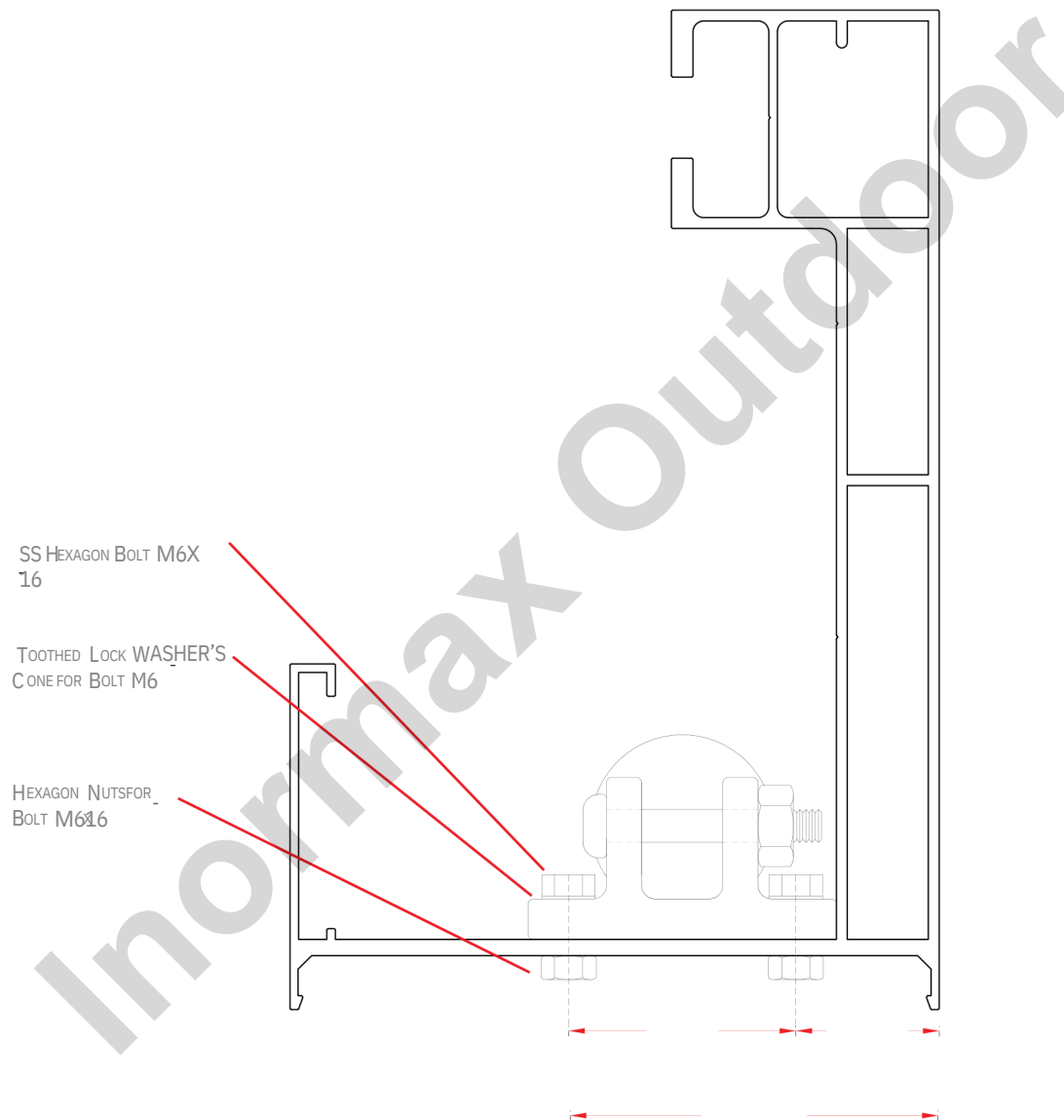
FOR MOVEMENT'S PROFILE DIMENSION:
MOVEMENT PROFILE = B-290 mm

INSTALLATION MOVEMENT PROFILE: THE PROFILE MUST BE INSTALLED AT 173 MM FROM THE BEAM'S INSIDE. ATTENTION THE PROFILE MUST STOP AT THE CAP OF THE LAST LOUVER.
(ATTENTION! THE LOUVER'S ROTATION MUST BE AS IN THE DRAWING)

INSTALLATION MOVEMENT PROFILE : THE PROFILE MUST BE INSTALLED AT 173MM FROM PARTITION'S INSIDE(ATTENTION! THE LOUVER'S ROTATION MUST BE AS IN THE DRAWING)

CUTTING INSTRUCTIONS

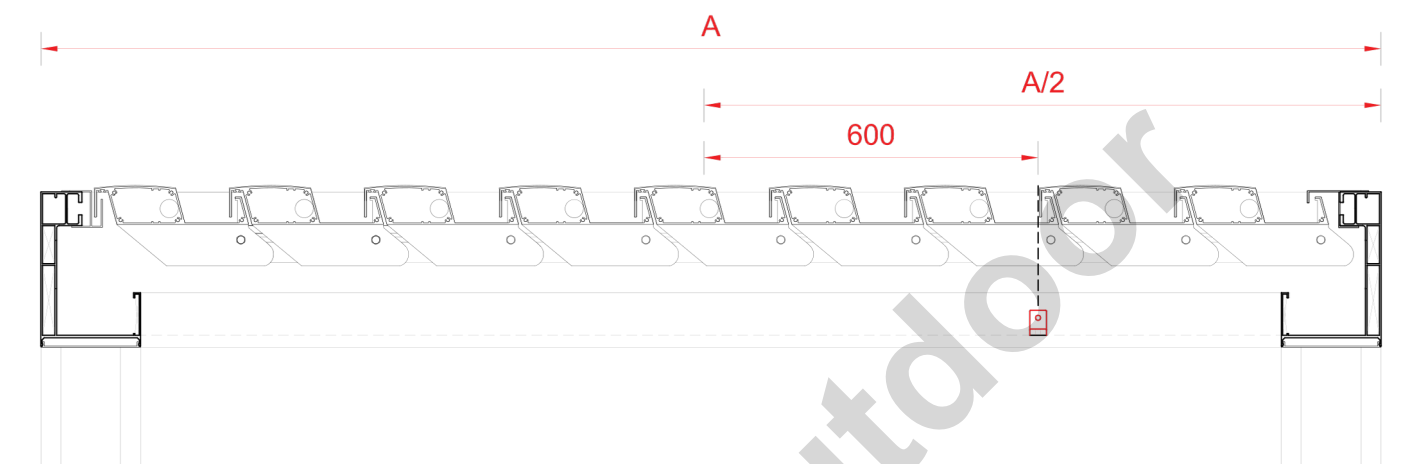
MOTOR PLACEMENT



THE MOTOR HAS TO BE IN THE CENTER OF THE BEAM THAT IS VERTICAL TO THE LOUVERS. FOR ITS
 PLACEMENT IS DEMANDED THE DRILLING OF THE BEAM AT 26.5 MM AND 68.5 MM FROM ITS
 OUTER SIDE.

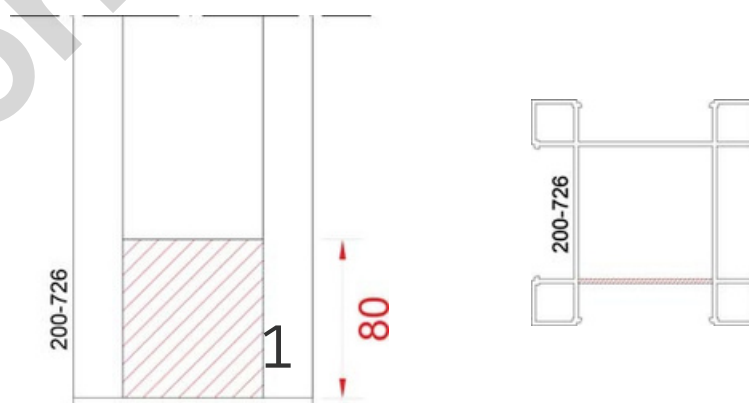
CUTTING INSTRUCTIONS

MOTOR PLACEMENT



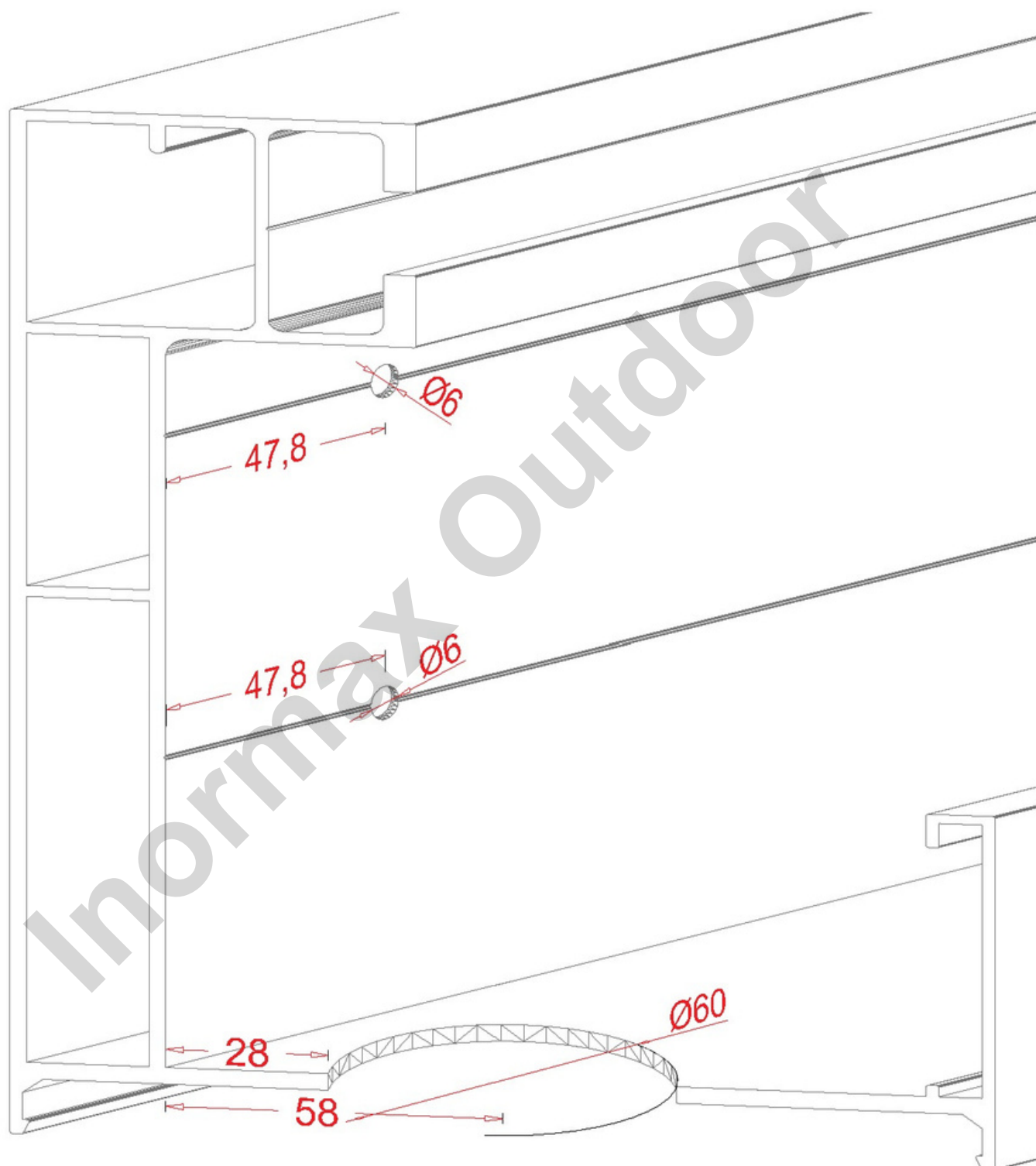
PERGOLA'S MOTORISED SYSTEM BASE (CODE 3798-2) MUST BE INSTALLED 600 MM FROM THE CENTER OF THE BEAM. (ATTENTION! THE LOUVER'S ROTATION MUST BE AS IN THE DRAWING)

PERGOLA'S MULLION METALLIC BASE WITH DRAINING HOLE (CODE 3781-1)



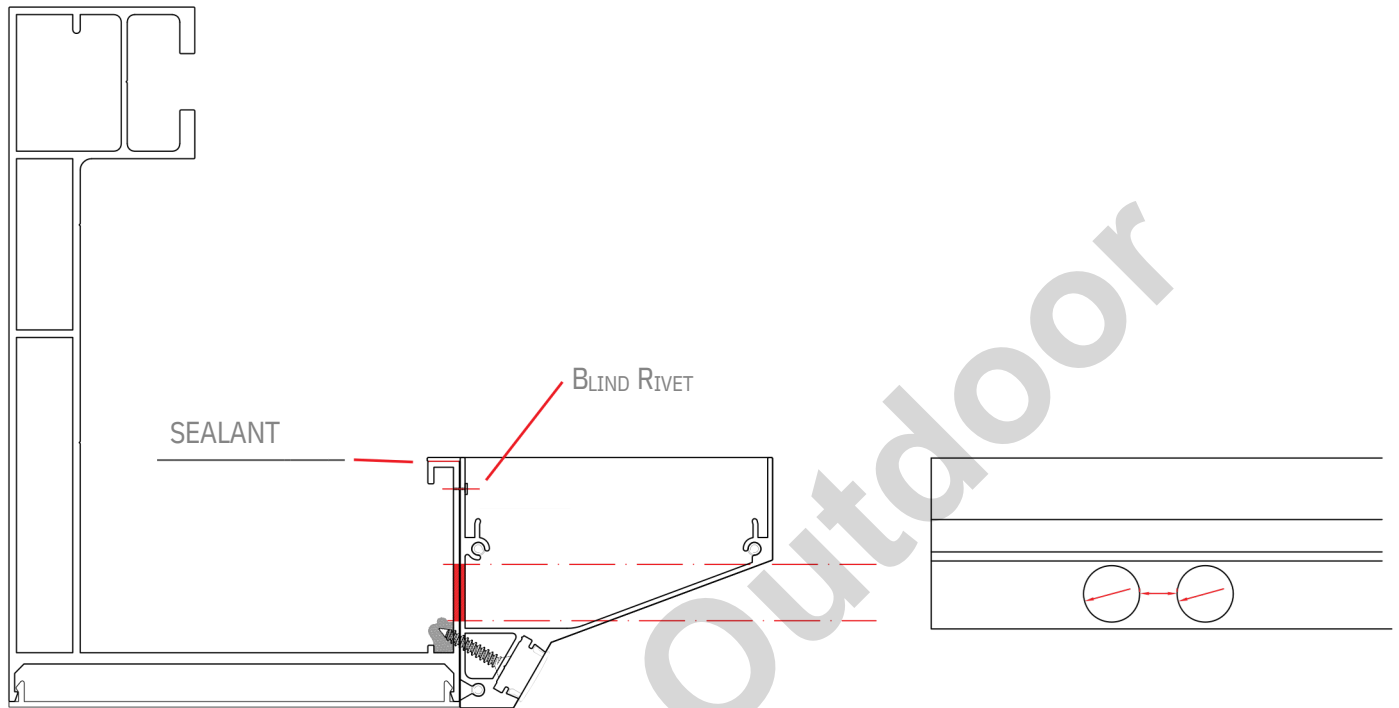
FOR MULLIONS METALLIC BASE WITH DRAINING HOLE (CODE 3781-1) INSTALLATION IT IS REQUIRED TO SUBTRACT 80 MM FROM THE INSIDE OF THE MULLION (200-726).

PRESS
MACHINE

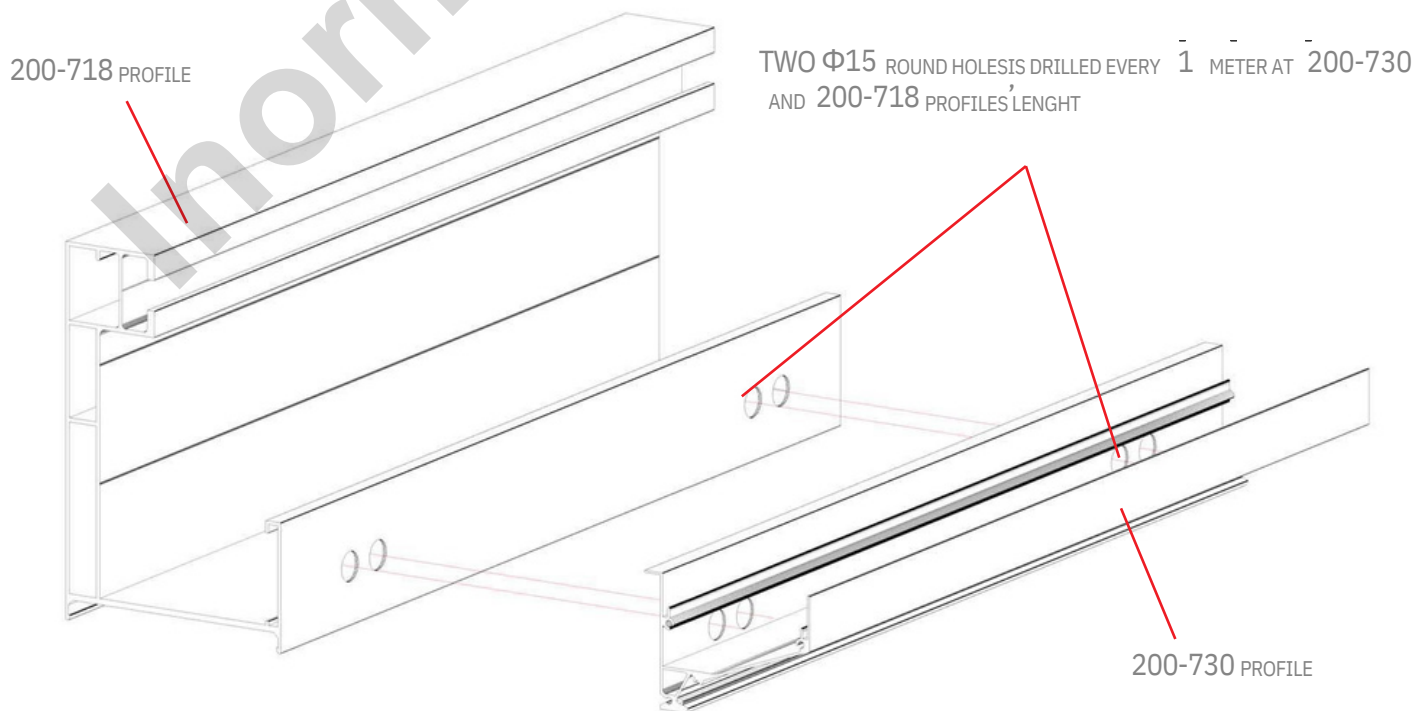


1. WATER DRAINAGE OPENING
2. PIERCING FOR CONNECTION SQUARE

200-730 PROFILE'S INSTALLATION INSTRUCTIONS



200-730 PROFILE'S INSTALLATION AT 200-718 PROFILE



1. WATER DRAINAGE OPENING

200-730 PROFILE'S INSTALLATION INSTRUCTIONS

