SUNSETPRO

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BIOCLIMATIC SYSTEM

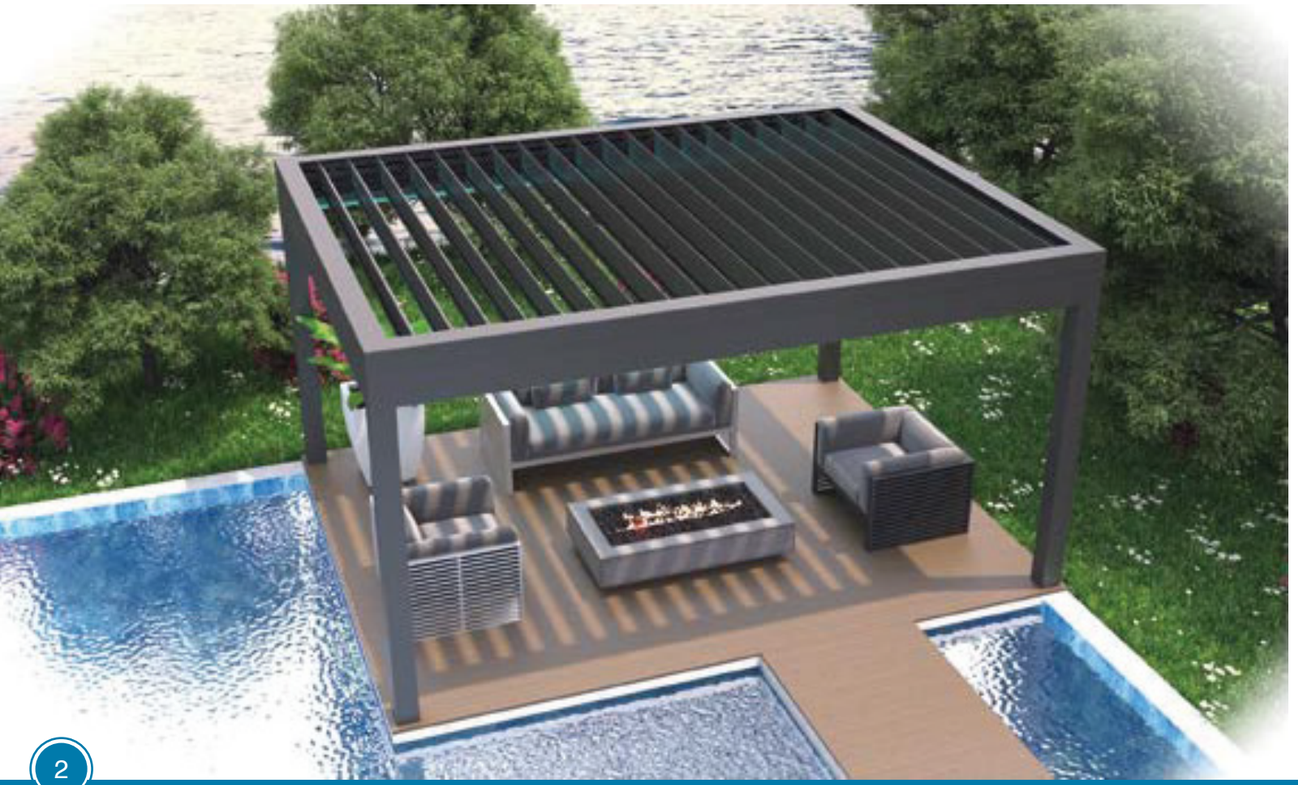
advance your living space

ALUMINIUM PERGOLA SYSTEM

INTRODUCTION

Bioclimatic Pergola is a waterproof shading system. Rotating lamellae and system are completely made of aluminium. Provides production from sunlight on sunny days.With its special feature Provides protection from rain water or snow.

We provide colors and the possibility of being different adding, with the diversity of modern design (Led, rain, wind, snow sensors etc.)
Using areas of Bioclimatiche Pergola:
homes, hotels facilities, restaurants and cafes.



OPTIONAL PRODUCTS

Choose from a variety of automatic options
Possibility systems:

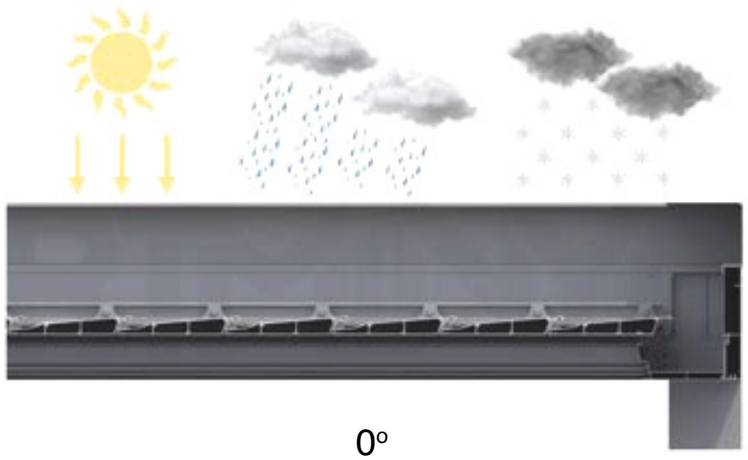
- led lightning
- Infrared heating
- Transmitter and central control
- Smartphone control
- Temperature sensor
- Snow sensor
- Rain sensor

DESIGN

Bioclimatic Pergola minimizes the noise that may occur during operation. The movement of the lamellae becomes 105^{O} owig to engines. The motorized system that allows the free movement of the lamellae is located inside the system. Prevention of noise caused by lamellae with the use of gaskets. And water which may leak through on one side with strap. Lamella are collected on one side owing to strap. There are led channels in the interior of the gutter. Led light can be changed through RGB. And also light adjustable owning to dimmer. It is used in large areas by bringing the system side by side.

LAMELLA MOVEMENT

Provides maximum air using of the pergola at different times, free rotation of the lamella between 0º and 105º



0º

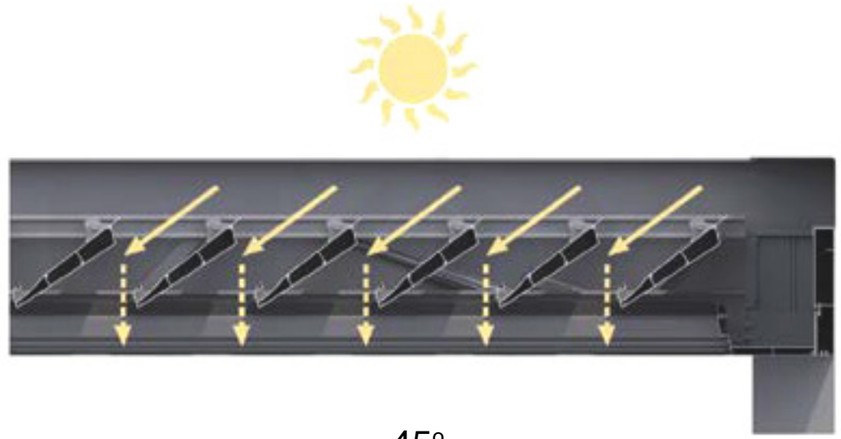
Provides protection from all weather conditions the roof remains closed.

5º

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

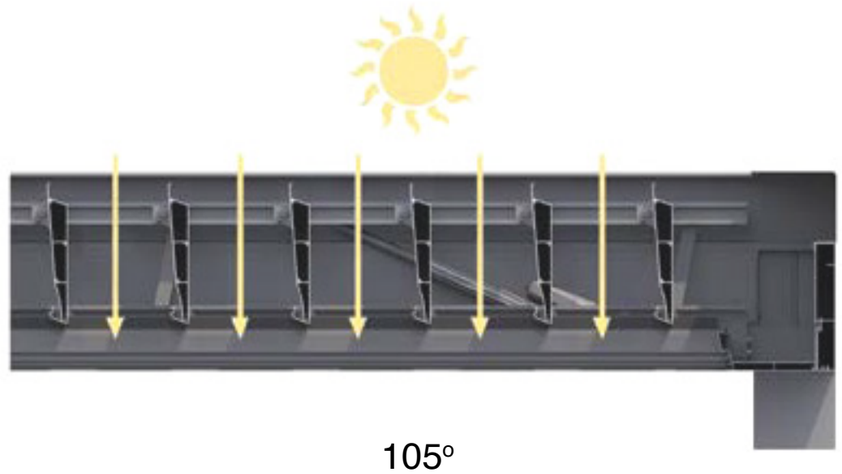
LAMELLA MOVEMENT

Provides maximum air using of the pergola at different times, free rotation of the lamella between 0º and 105º



45º

Allows the sunlight to enter, still controls the lighting



105º

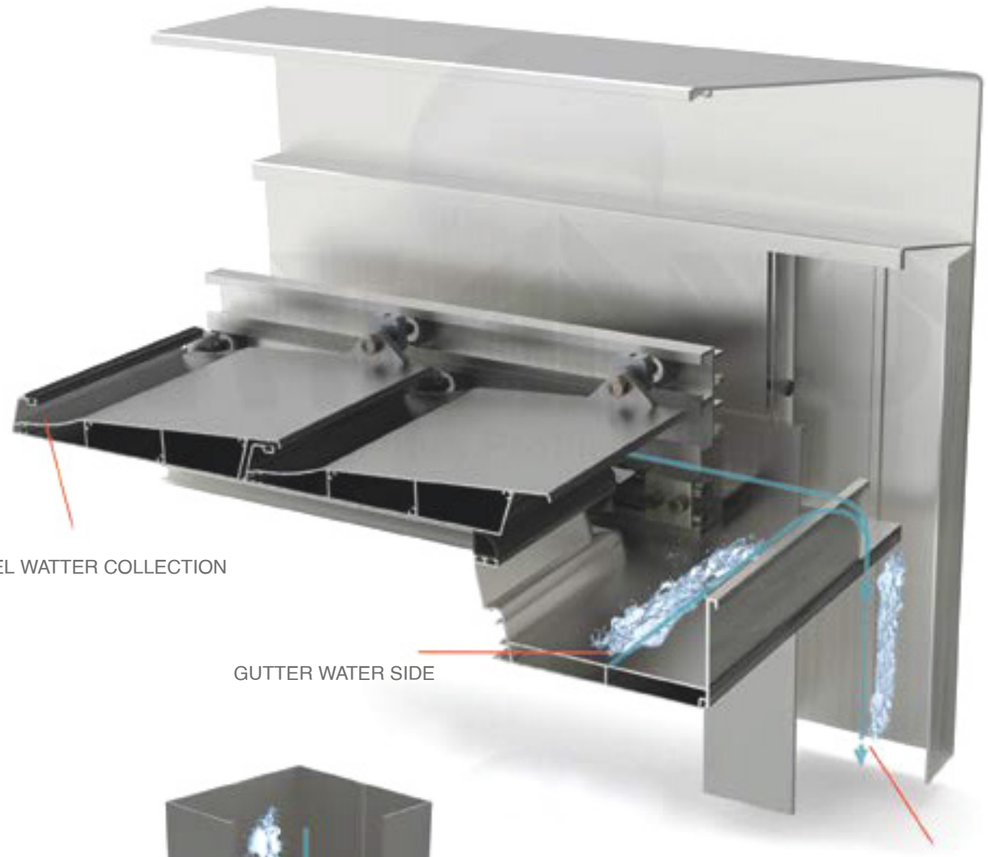
Permits full use of the sunlight.

RAINWATER DRAINAGE SYSTEM

Bioclimatic Pergola is designed to collect rainwater. The water is directed to side beams of lamella. And then rainwater is directed to side gutter from lamellae. The collected water is transferred from inside of the foot to the outside notching is applied to the groove and the feet tor rainwater discharge.

INTRODUCTION

RAINWATER DRAINAGE SYSTEM



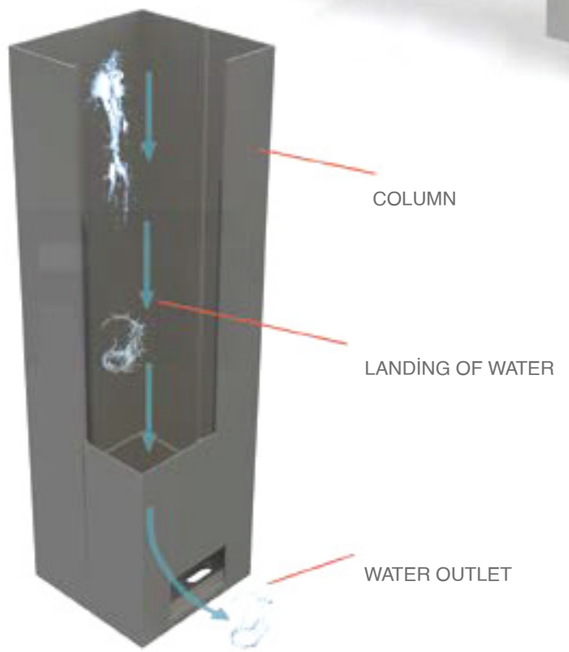


TABLE OF CONTENTS

BIOCLIMATIC PERGOLA LIST 9

BIOCLIMATIC PERGOLA PROFILES 10

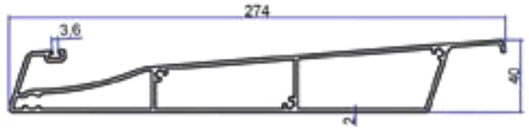
TYPOLOGY.....13

MAXIMUM - MINIMUM DIMENSIONS OF THE SYSTEM.....16

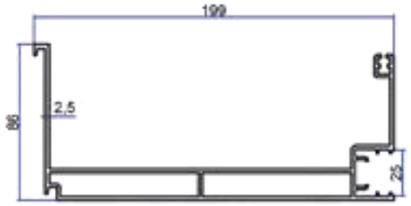
ACCESSORIES.....17

INSTALLATION INSTRUCTIONS 25

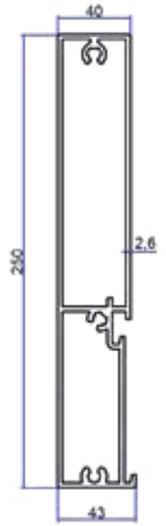
BIOCLIMATIC PERGOLA LIST



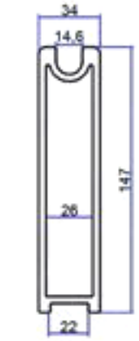
Profile No	kg/m
2420	3,700



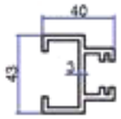
Profile No	kg/m
2423	3,512



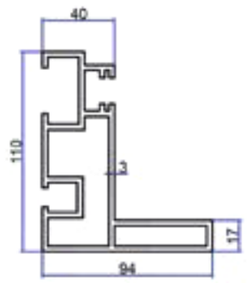
Profile No	kg/m
2424	4,990



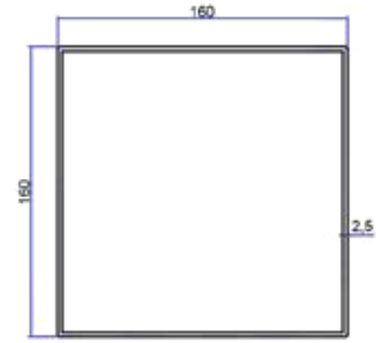
Profile No	kg/m
2425	4,082



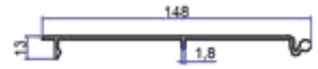
Profile No	kg/m
2421	1,171



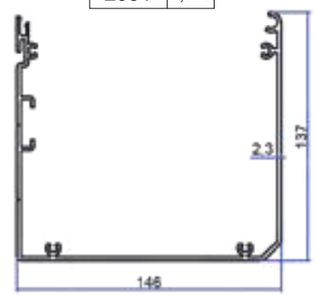
Profile No	kg/m
2422	3,933



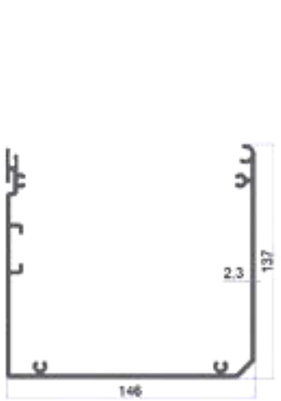
Profile No	kg/m
2426	4,270



Profile No	kg/m
2091	0,915



Profile No	kg/m
2090	3,075

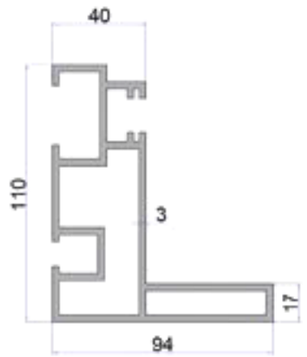


PROFILE	2090	NAME	ENGINE BOX	WEIGHT	3,075 kg/m	LENGHT	7 METER

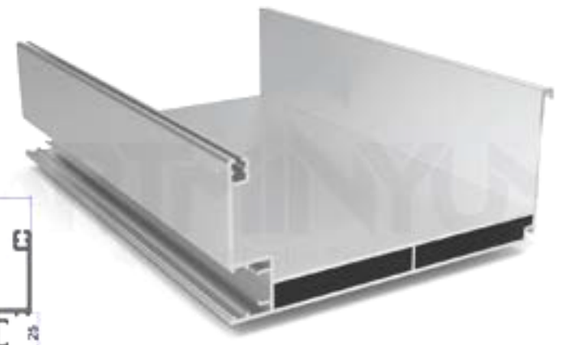
PROFILE	2091	NAME	ENGINE BOX COVER	WEIGHT	0,915 kg/m	LENGHT	7 METER

PROFILE	2420	NAME	LAMELLA	WEIGHT	3,700 kg/m	LENGHT	7 METER

PROFILE	2421	NAME	RAIL TOP ADD	WEIGHT	1,171 kg/m	LENGHT	7 METER

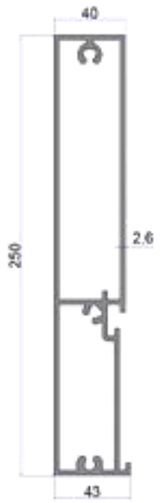


PROFILE	2422	NAME	RAIL	WEIGHT	3,933 kg/m	LENGHT	7 METER



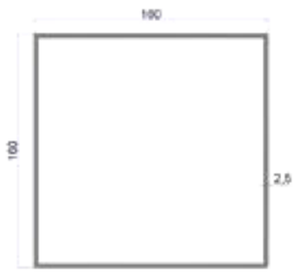
PROFILE	2423	NAME	GUTTER	WEIGHT	3,512 kg/m	LENGHT	7 METER

PROFILES



PROFILE	2424	NAME	40X250 GUTTER SEWING	WEIGHT	4,990 kg/m	LENGHT	7 METER

PROFILE	2425	NAME	ADDITIONAL WEDGE	WEIGHT	4,082 kg/m	LENGHT	7 METER



PROFILE	2426	NAME	160X160 COLUMN	WEIGHT	4,270 kg/m	LENGHT	7 METER

TYPOLOGY

- 1 SYSTEM WİTH 4 LEGS

- 2 SYSTEMS WİTH 6 LEGS

TYPOLOGY

● 6 SYSTEMS WİTH 12 LEGS

● 1 SYSTEM WITHOUT LEG

TYPOLOGY

● 1 SYSTEM WİTH 2 LEGS

● 2 SYSTEMS WİTH 3 LEGS

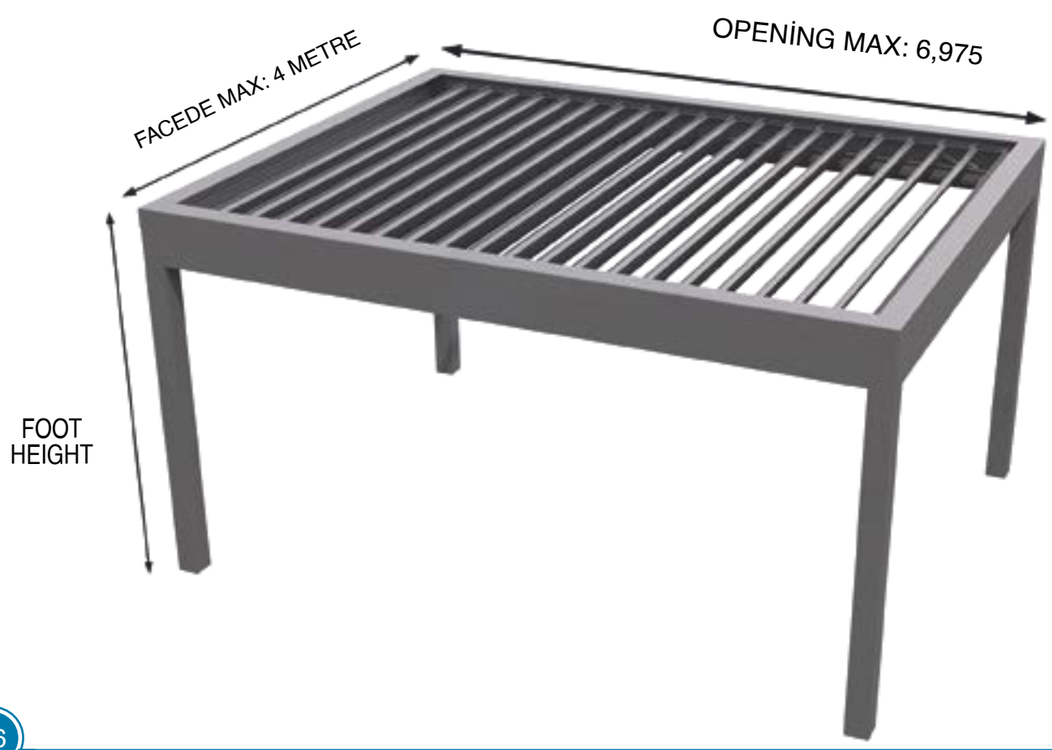
MAXIMUM MEASUREMENT OF THE SYSTEM

FRONT OPENING SIZE AND NUMBER OF PANELS

ARE OPENING SIZES ACCORDING TO THE NUMBER OF PANELS

5 LAMEL	1,550 Metre	17 LAMEL	4,378 Metre
6 LAMEL	1,780 Metre	18 LAMEL	4,614 Metre
7 LAMEL	2,016 Metre	19 LAMEL	4,850 Metre
8 LAMEL	2,252 Metre	20 LAMEL	5,086 Metre
9 LAMEL	2,488 Metre	21 LAMEL	5,322 Metre
10 LAMEL	2,725 Metre	22 LAMEL	5,558 Metre
11 LAMEL	2,960 Metre	23 LAMEL	5,795 Metre
12 LAMEL	3,197 Metre	24 LAMEL	6,030 Metre
13 LAMEL	3,433 Metre	25 LAMEL	6,267 Metre
14 LAMEL	3,670 Metre	26 LAMEL	6,503 Metre
15 LAMEL	3,905 Metre	27 LAMEL	6,740 Metre
16 LAMEL	4,142 Metre	28 LAMEL	6,975 Metre

THE MAX FACADE LENGTH IS 3.75 METERS



ACCESORIES

PALMERA ENGINE TOOL SET

PRODUCT IMAGE	PRODUCT CODE	PRODUCT DESCRIPTION	PIECE
	PAL-3	ENGINE BOX SIDE COVER	2
	PAL-4	ROLLER BEARING	1
	PAL-5	BEARING CLAMP	1
	PAL-6	BELT DIRECTIONS	2
	PAL-52	ROLLER PIN	4
	PAL-77	FEMALE ROLLER	2
	PAL-78	MALE ROLLER	2
	PAL-91	OCTAGONAL GEAR	2
	PAL-111	M6X12 SETSKUR	4
	PAL-113	M6X20 H.B. INBUS BOLT	8
	PAL-114	M5X12 INBUS BOLT	1
	PAL-118	M8 FIBER NUT	14
	PAL-119	4.8X19 YSB BOMB HEAD SMART SCREW	8
	PAL-122	PLASTIC WASHER	2
	PAL-135	ROLLER	1
	PAL-136	OCTAGONAL PIPE HEAD	1

PALMERA FRONT DRAWER KIT

PRODUCT IMAGE	PRODUCT CODE	PRODUCT DESCRIPTION	PIECE
	PAL-7	FRONT BELT PULLER 1	2
	PAL-8	FRONT BELT PULLER 2	2
	PAL-9	FRONT BELT PULLER 3	2
	PAL-10	FRONT BELT PULLER LEFT	1
	PAL-11	FRONT BELT PULLER RIGHT	1
	PAL-12	FRONT BELT PULLER 5	2
	PAL-13	FRONT BELT PULLER 6	2
	PAL-76	POLYEMIDE GUIDE MATERIAL	2
	PAL-114	M5X12 INBUS BOLT	14
	PAL-115	M6X25 INBUS BOLT	4

PALMERA FRONT TENSIONER KIT

	PAL-29	PALMERA PRE-TENSIONING	2
	PAL-79	POLYEMIDE WHEEL	2
	PAL-135	ROLLER	4
	PAL-139	M6X100 AKV BOLT	4
	PAL-153	12 SHAFT RING	4
	PAL-154	PIN AUTOMATIC	2

PRODUCT CODE	PRODUCT IMAGE	PRODUCT DESCRIPTION	QUANTITY OF BOX
PAL-1		PANEL LASER	
PAL-2		REAR FIXED LASER	
PAL-14		LINEAR MOTOR BOTTOM CASE	
PAL-15		LINEAR MOTOR SCISSORS	
PAL-16		PANEL (C) CHANNEL FRONT DRAWING JOINT	
PAL-17		PANEL (C) CHANNEL FRONT TOWING APPARATUS	
PAL-18		JOINT LASER	
PAL-19		RAIL FIXING LASER	
PAL-20		REAR PANEL FIXING PART	
PAL-21		FOOT UPPER (L) CONNECTION LASER PART	
PAL-21-1		UPPER FOOT (L) CONNECTION LASER PART SHEET	
PAL-22		FOOT UPPER (T) CONNECTION LASER PART	

ACCESORIES

PRODUCT CODE	PRODUCT IMAGE	PRODUCT DESCRIPTION	QUANTITY OF BOX
PAL-22-1		TOP OF THE FOOT (T) CONNECTION LASER PART SHEET	
PAL-24		FOOT BOTTOM (L) CORNER CONNECTION BRACKET	
PAL-25		FOOT BOTTOM (T) MIDDLE CONNECTION BRACKET	
PAL-26		GUTTER 90o (L) COMBINING	
PAL-27-1		CORNER CONNECTION SHEET 4MM SLOT HOLE	
PAL-27-2		CORNER CONNECTION SHEET 1 MM WITHOUT HOLES	
PAL-27-3		CORNER CONNECTION SHEET 1MM L	
PAL-27-4		CORNER CONNECTION SHEET 1MM R	
PAL-27-5		CORNER CONNECTION L SHEET	
PAL-28-1		WALL MIDDLE CONNECTION SHEET 4MM SLOT L	
PAL-28-2		WALL MIDDLE CONNECTION SHEET 4MM SLOT R	
PAL-28-3		WALL MIDDLE CONNECTION CLOSING SHEET 1 MM	

ACCESORIES

PRODUCT CODE	PRODUCT IMAGE	PRODUCT DESCRIPTION	QUANTITY OF BOX
PAL-28-4		WALL CENTER CONNECTION T SHEET	
PAL-30		PALMERA LASER	
PAL-50		LAMEL LOWER WHEEL PIN	
PAL-51		LAMEL UPPER WHEEL PIN	
PAL-54		CORNER CONNECTION SHEET 1 MM WITHOUT HOLES	
PAL-55		MOTOR SCISSORS FRAME SHEET PIN	
PAL-56		MOTOR SCISSORS AND (C) CHANNEL PIN	
PAL-57		JOINT PIN	
PAL-75		BEARING WHEEL	
PAL-90		STEEL WIRE JOINT	
PAL-94		ENGINE AND (C) CHANNEL FIXING SOCKET	

ACCESORIES

PRODUCT CODE	PRODUCT IMAGE	PRODUCT DESCRIPTION	QUANTITY OF BOX
PAL-95		LOCK SOCKET SMALL	
PAL-96		LOCK SOCKET LARGE	
PAL-110		STEEL SPRING	
PAL-111		M6X12 SETSKUR	2800
PAL-112		M6X12 H.B. INBUS BOLT	500
PAL-113		M6X20 H.B. INBUS BOLT	200
PAL-114		M5X12 INBUS BOLT	500
PAL-115		M6X25 INBUS BOLT	500
PAL-116		M8X40 FULL THREAD AKV BOLT	200
PAL-117		M8X100 FULL THREAD AKV BOLT	130
PAL-118		M8 FIBER NUT	1000
PAL-119		4.8X19 YSB BOMB HEAD SMART SCREW	1500

ACCESORIES

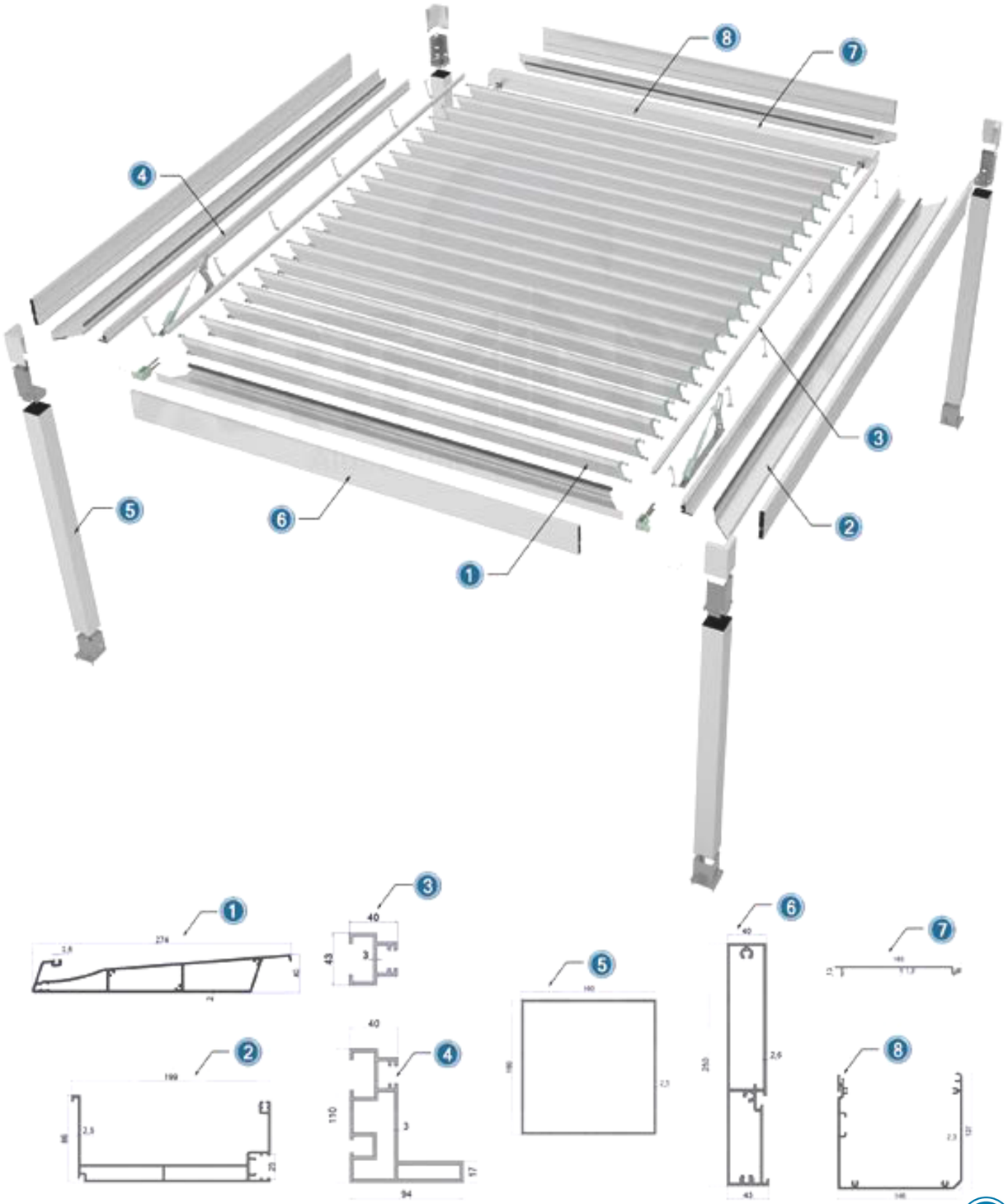
PRODUCT CODE	PRODUCT IMAGE	PRODUCT DESCRIPTION	QUANTITY OF BOX
PAL-120		EIGHTH MOON RING (COATED)	
PAL-121		TEN MOON RING (COATED)	
PAL-122		PLASTIC WASHER	1000
PAL-135		6001 ROLLER	
PAL-137		OCTAGONAL PIPE HEAD	8 MT
PAL-138		SOMFY 120 NM FLAT ENGINE	
RTS-KM5		RTS SOMFY MULTIPLE CONTROLLER	
PAL-140		SOMFY ZAMAK APPARATUS	
PRG-27		SOMFY OCTAGONAL ENGINE APPARATUS	
PAL-142		PISTON ENGINE	
PAL-143		CONTROL PANEL	
PAL-144		T10X20 TRIGER BELT	100 MT

ACCESORIES

PRODUCT CODE	PRODUCT IMAGE	PRODUCT DESCRIPTION	QUANTITY OF BOX
PAL-145		INSULATED LED	100 MT
PAL-146		DIFFUSER COVER	
PAL-147		LAMEL WICK	319 MT
PAL-148		WATER GUTTER WICK	49 MT
PAL-149		5MM INSULATED STEEL ROPE	100 MT

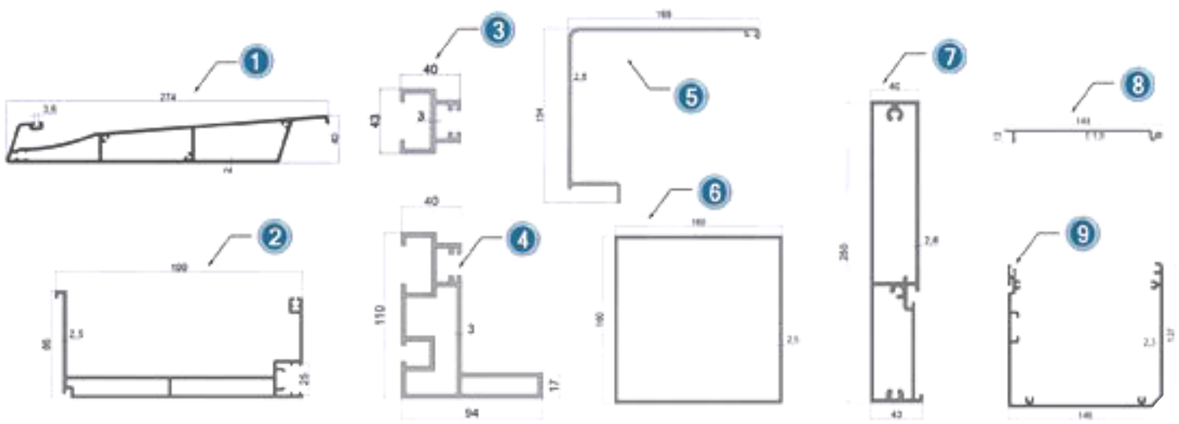
ASSEMBLY DIAGRAM

SYSTEM PROFILE LOCATIONS



ASSEMBLY DIAGRAM

SYSTEM PROFILE LOCATIONS



ASSEMBLY DIAGRAM

CORNER CONNECTION SYSTEMS

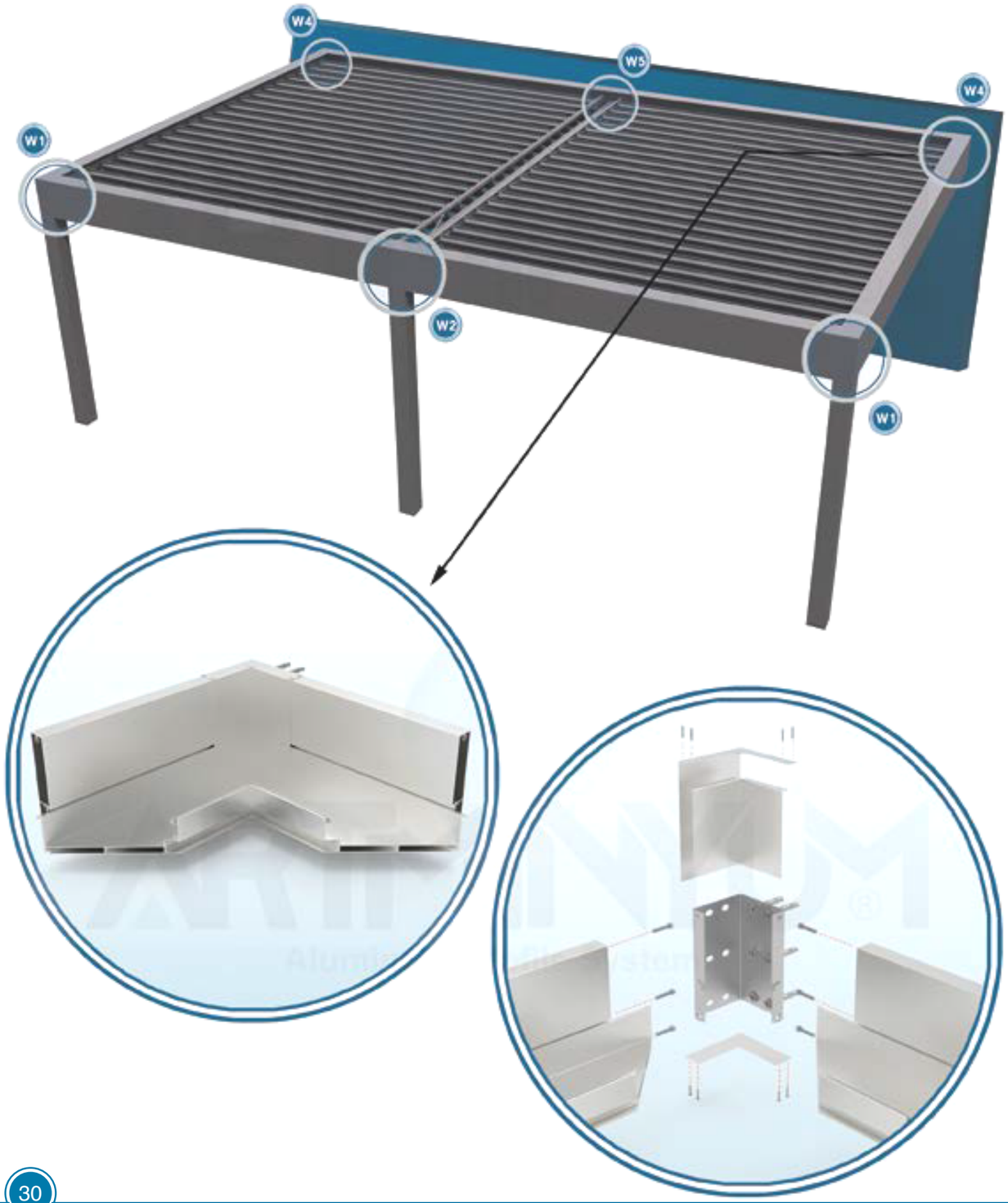
ASSEMBLY DIAGRAM

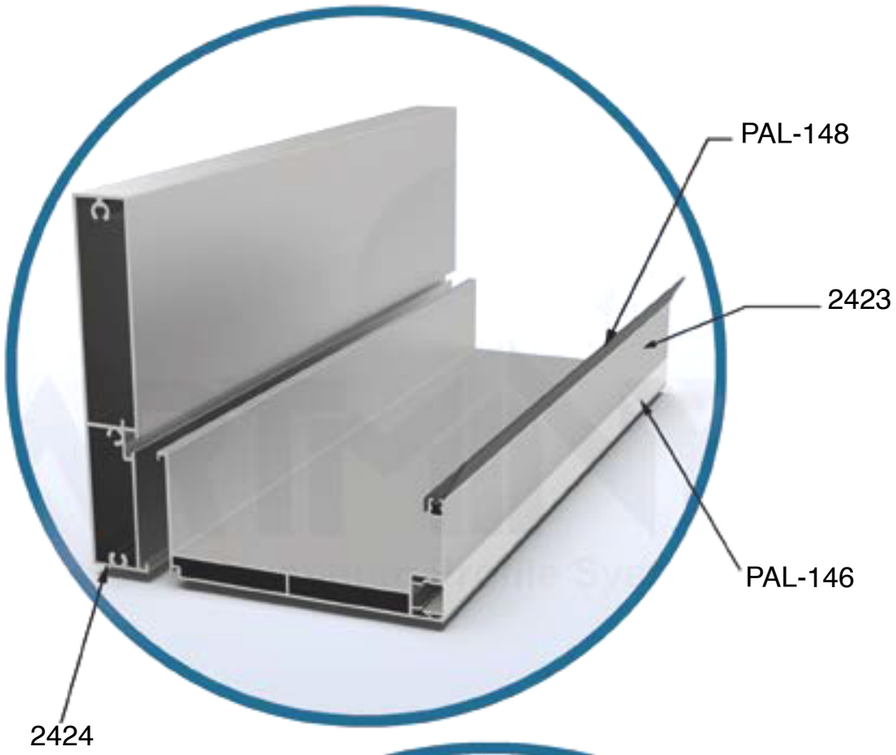
CORNER CONNECTION SYSTEMS

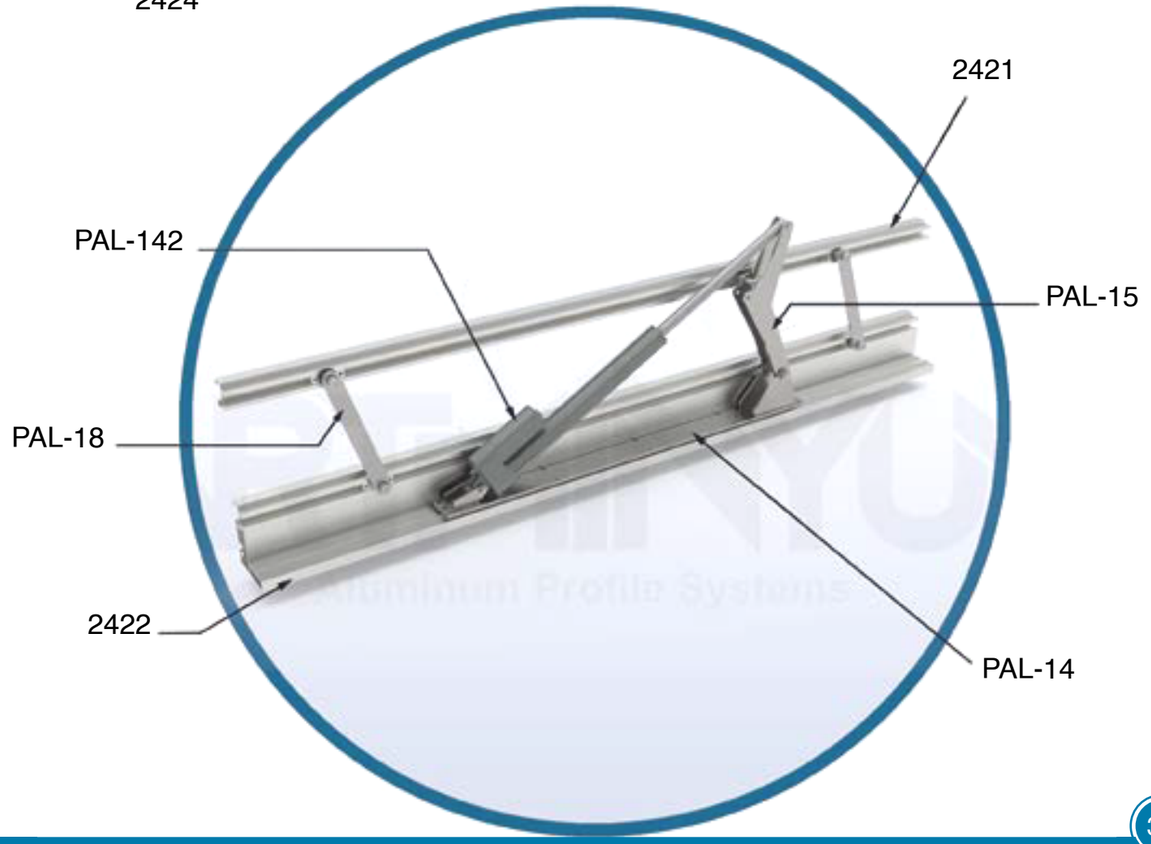
ASSEMBLY DIAGRAM

WALL MIDDLE CORNER CONNECTION SYSTEM

WALL CORNER CONNECTION SYSTEM

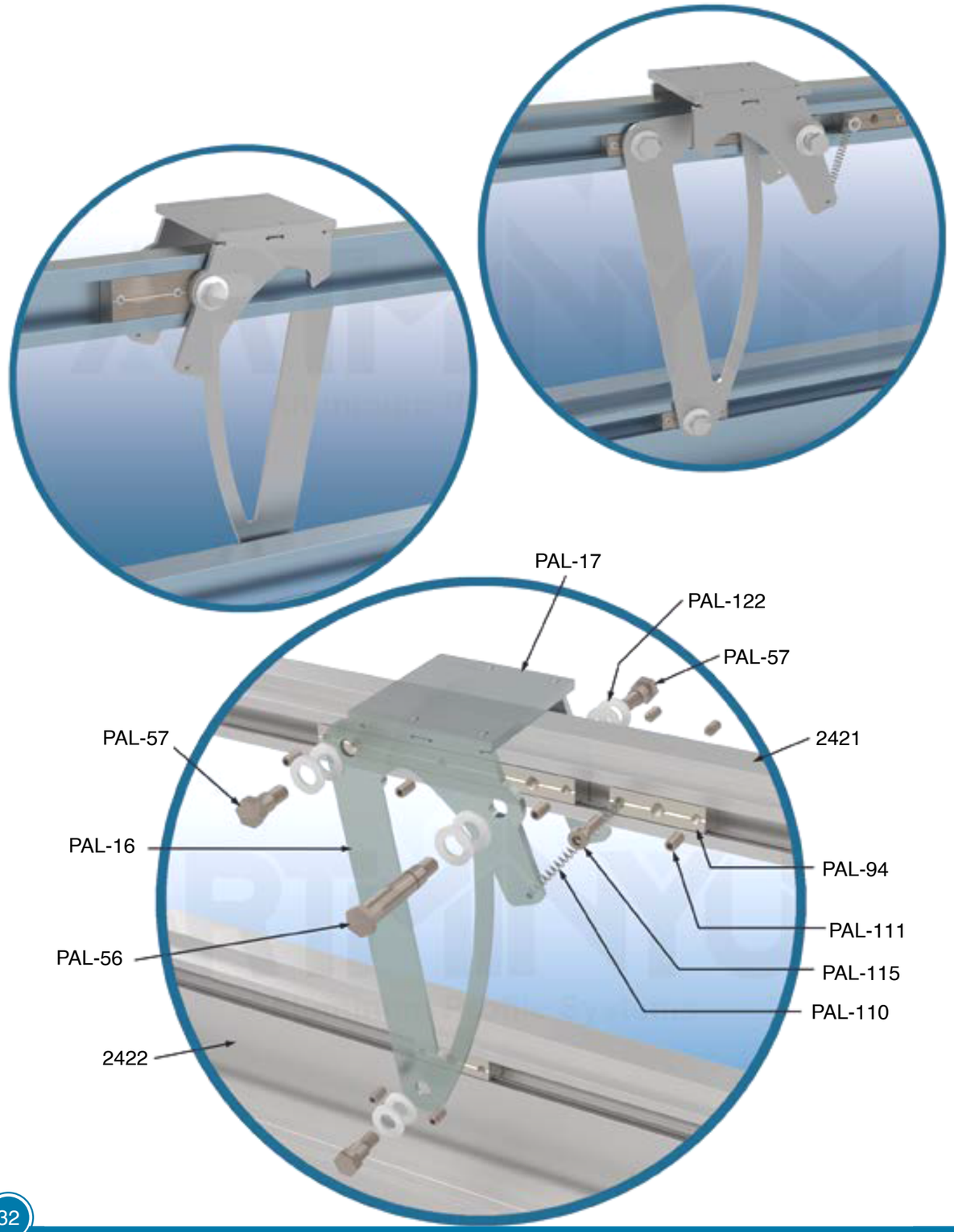






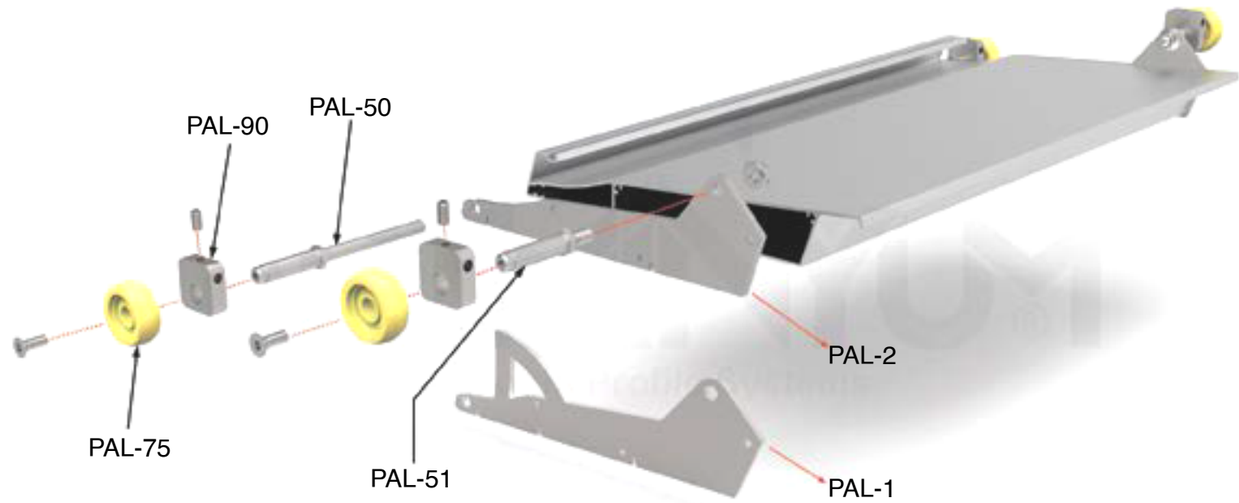
ASSEMBLY DIAGRAM

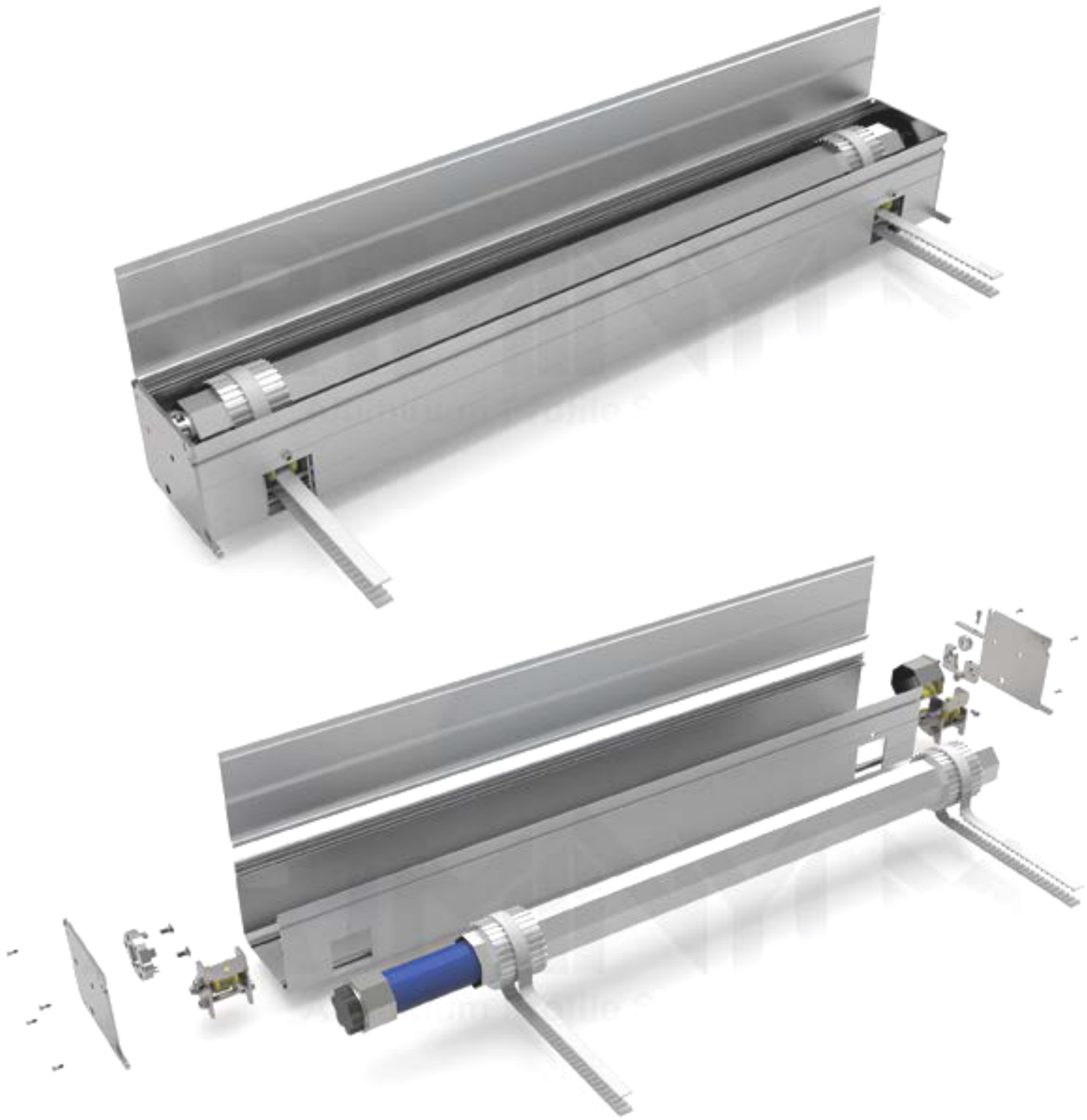
FRONT LOCK ASSEMBLY



MANUFACTURING SCHEME

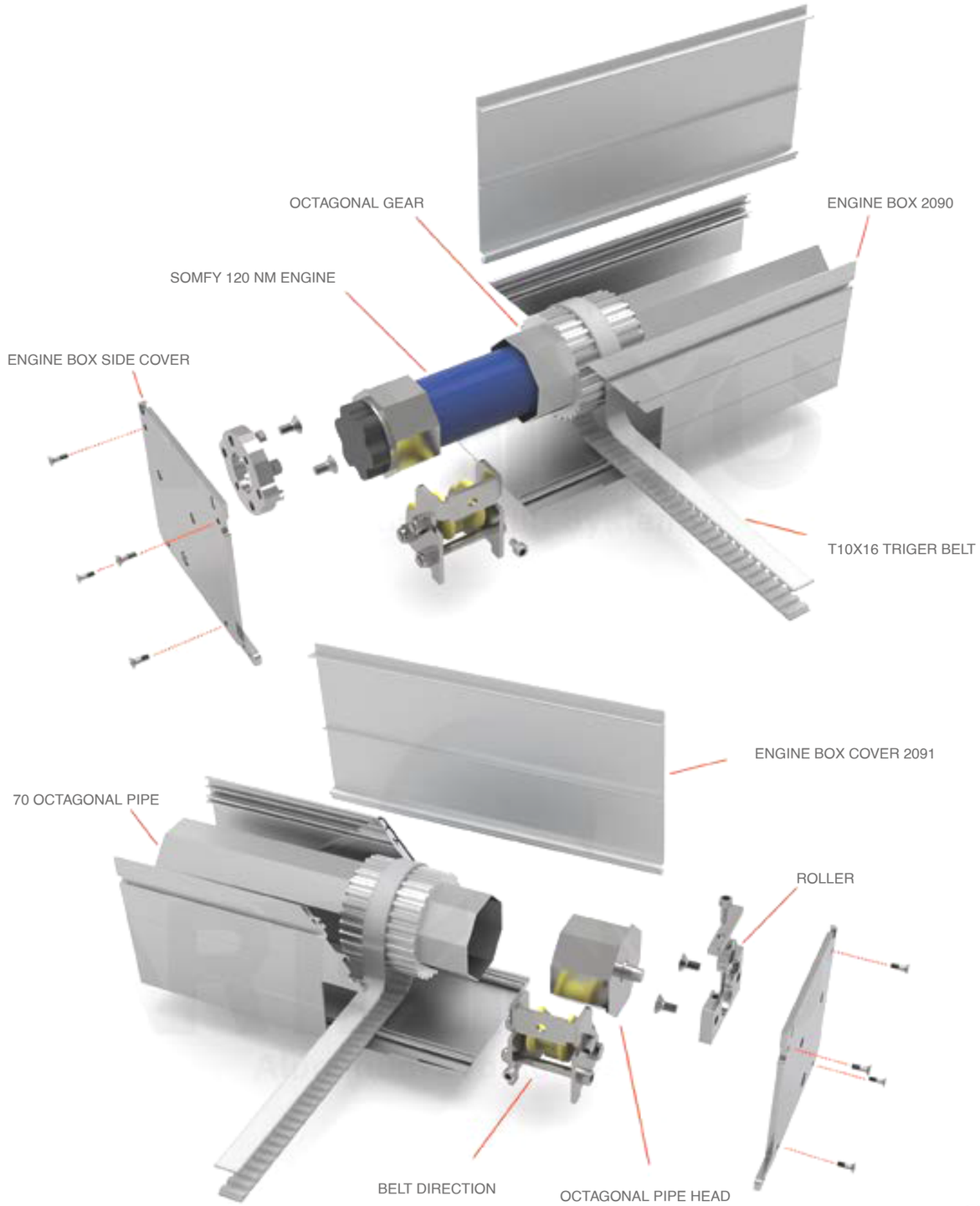
LAMEL INSTALLATION



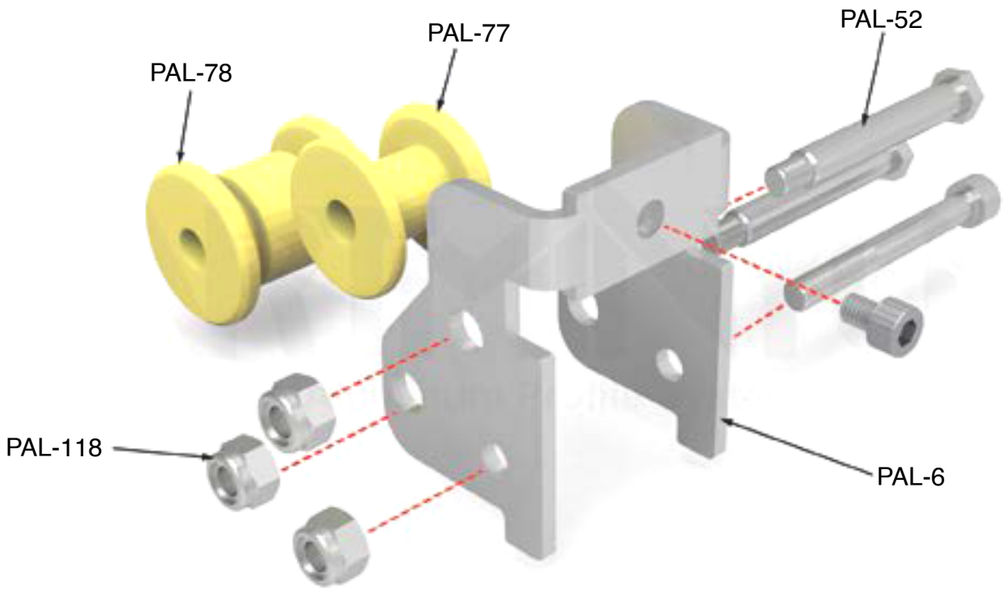


MANUFACTURING SCHEME

ENGINE BOX INSTALLATION

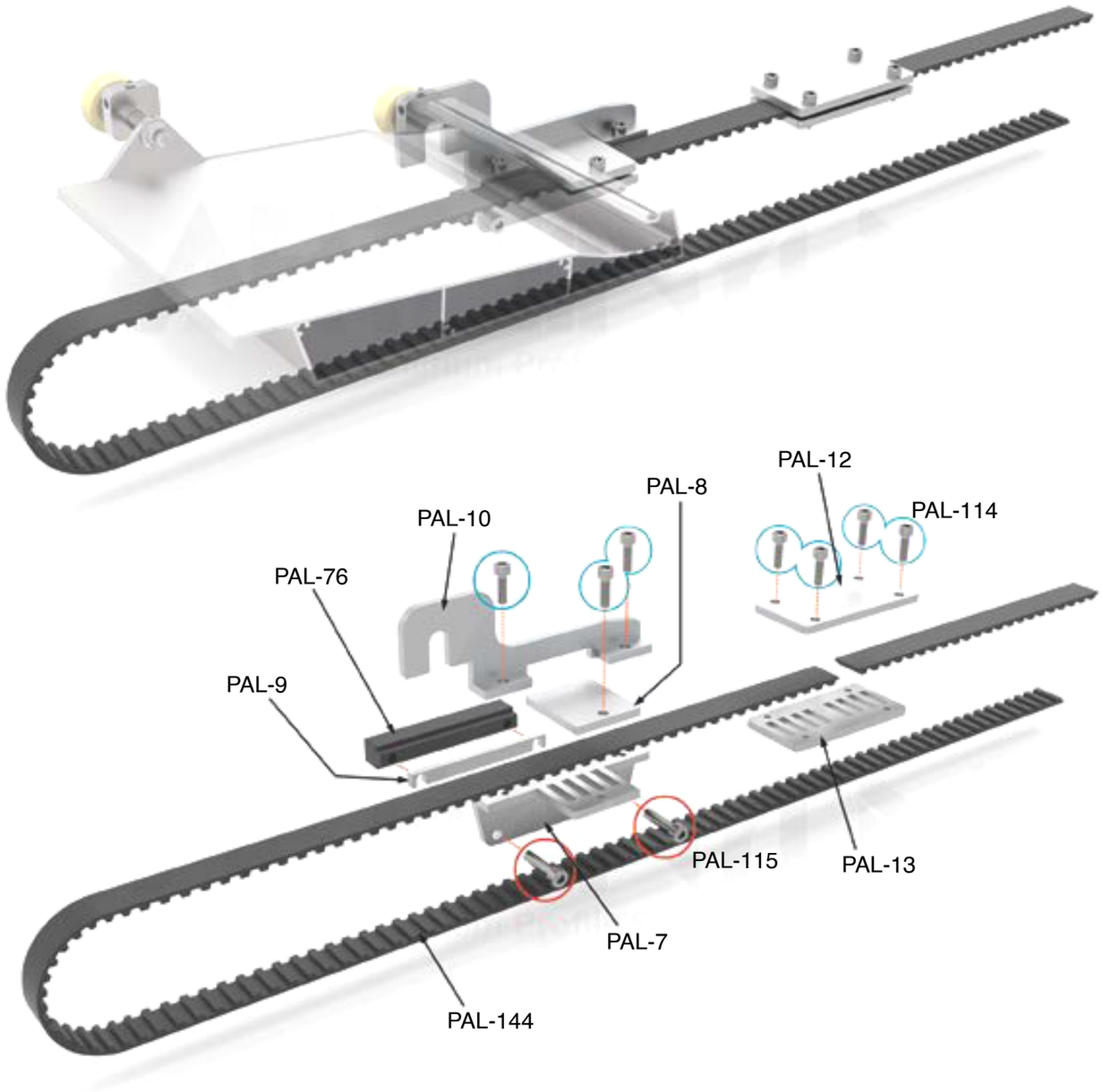


ENGINE BOX NOTCHİNG OPERATION

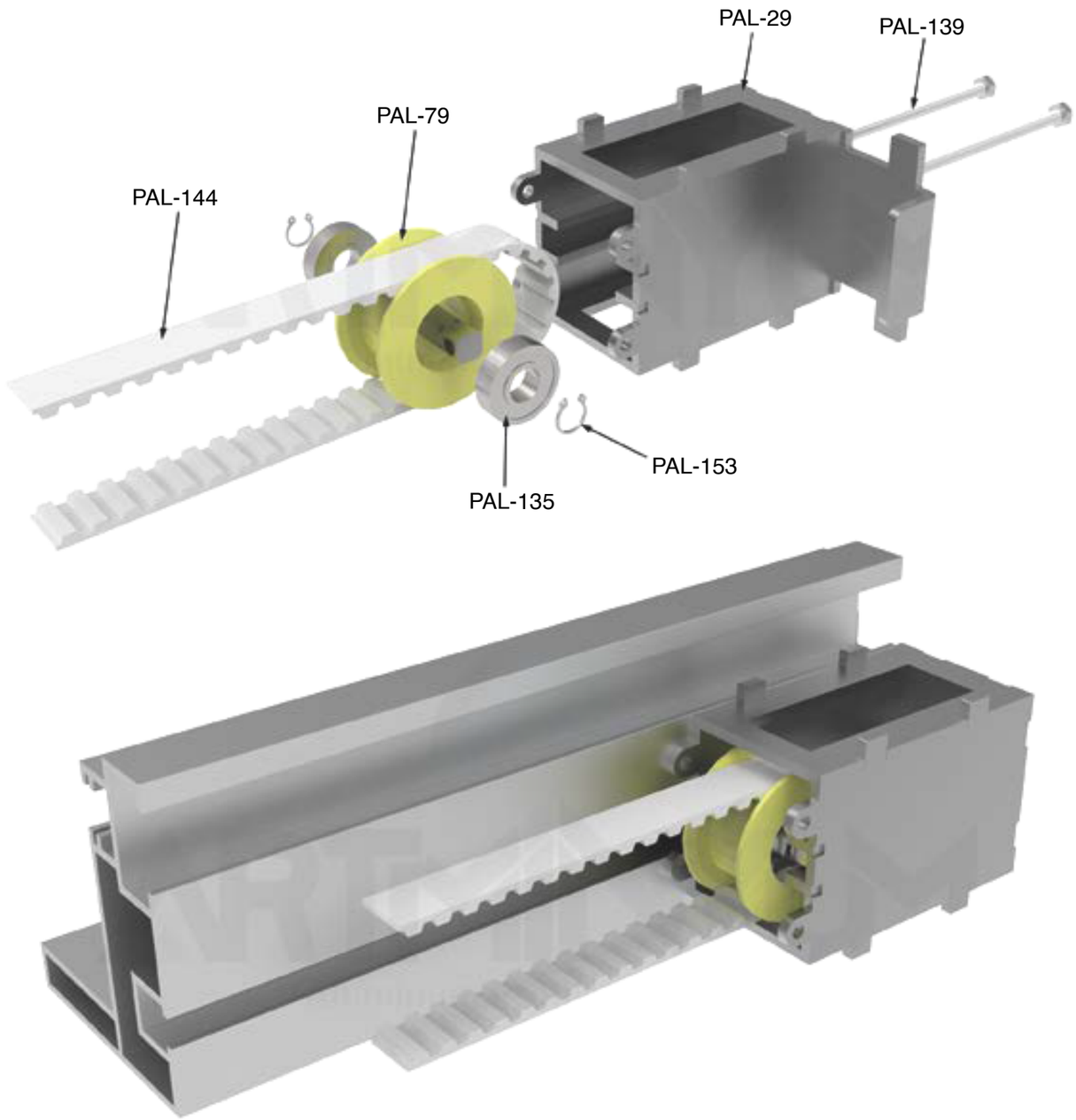


BELT GUIDING APPARATUS

FRONT TRACTOR INSTALLATION

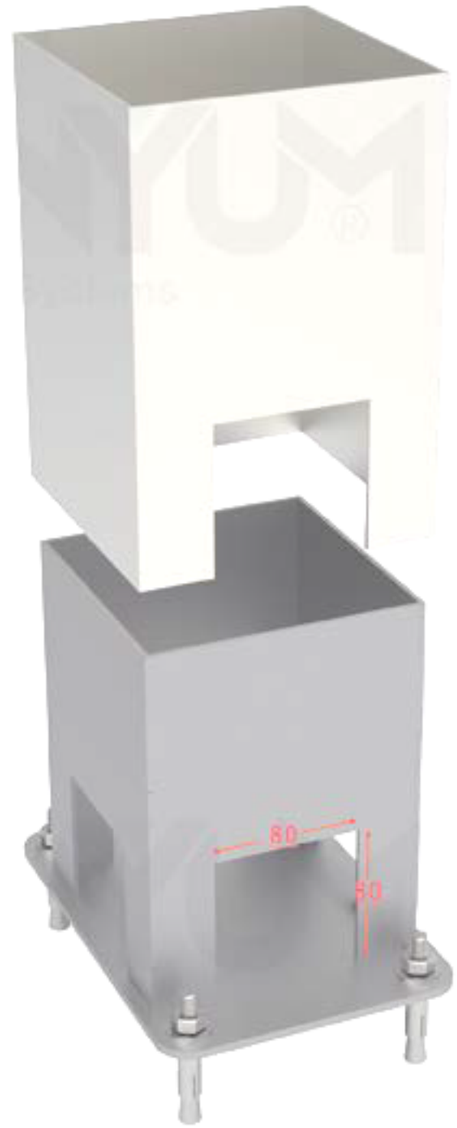


PRE-TENSIONER MECHANISM



FOOT NOTCHING PROCESS

FOOT BOTTOM CORNER CONNECTION
PAL-24



FOOT BOTTOM MIDDLE CONNECTION
PAL-25

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