



HUUN[®]
ALUMINIUM TECHNOLOGY

EXPAND YOUR OUTDOOR SPACE

LAMELLA



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ALUMINIUM TECHNOLOGY



LAMELLA

EXPAND YOUR OUTDOOR SPACE

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OVERVIEW

HUUN LAMELLA INTRODUCTION
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HUUN LAMELLA OFFERS AN ELEGANT EXTERNAL SPACE THAT IS FULLY NATURE-PROOF AS LONG AS DESIRED. THANKS TO ITS RETRACTABLE BLADES, IT IS POSSIBLE TO ADJUST HEAT AND OXYGEN LEVELS IN THAT AREA NATURALLY. BECAUSE IT IS ATTRACTED TO RESIDENTIAL/COMMERCIAL BUILDINGS, IT HAS THE MEANING OF AN EASY ESCAPE TO NATURE. THE MAIN ADVANTAGE IS OFFERED BY, LAMELLA'S DURABILITY. ALL BLADES, RAILS, AND POSTS ARE MADE OF SOLID ALUMINUM ALLOY. AS IT IS KNOWN, ALUMINIUM CAN RESIST NATURE FOR AGES. WITH THAT ADVANTAGE, THERE IS NO RISK OF THE SYSTEM BEING DAMAGED BY ENVIRONMENTAL EFFECTS WHILE IT PROTECTS AND OFFERS PERFECT NATURE INSULATION TO THE USER AND SYSTEM. COMPARING THE SYSTEM WITH FABRIC PERGOLAS, THE SYSTEM'S COLOR WILL NOT CHANGE WITH THE EFFECT OF THE SUN, SMOKE, ETC. IT WILL ALSO NOT BE WORN DURING THE TIME.

HUUN LAMELLA HAS ITS UNIQUE DESIGN TO EASE THE APPLICATION AND PRODUCTION PROCESS WHILE GUARANTEEING HUUN'S USERS' SATISFACTION AND HIGH QUALITY. SYSTEM WORK WITH THE HELP OF A TUBULAR MOTOR PLACED INTO THE OCTAGONAL TUBE. THE TORQUE OF THE ENGINE IS TRANSFERRED TO BLADES WITH A HIGH-QUALITY T10 TIMING BELT WHICH HAS 25 MM IN THICKNESS. WITH STAINLESS SPRING, BLADES ARE EASILY LIFTED WITHOUT THE MOTOR SPENDING EXTRA POWER. SINCE THE MOTOR SPENDS LESS ENERGY THAN IT IS MEANT TO, THE MECHANICAL PART OF THE SYSTEM IS EXPECTED TO HAVE A LONGER LIFE.





BLADES ARE PLACED EVERY 20 CM ALONG THE RAIL TO SUSTAIN DURABILITY AND RESISTANCE TO EVERY WEATHER CONDITION. 4,5 CM OF EVERY BLADE COVERS THE NEXT BLADE. THEREFORE WATER TIGHTNESS IS ENSURED WITH THE HELP OF EPDM CORDS.

WATER LEAKAGE IS ALSO AVOIDED BY BLADE CONSTRUCTION. THE BLADE HAS AN ANGLE OF ITS OWN; EVEN IF THE SLOOP IS %3, WATER FLOWS OVER THE BLADE SMOOTHLY.

THE SYSTEM RUNS WITH THE POWER OF THE 120N.M TUBULAR MOTOR. WHILE THE MOTOR SPINS, IT ALSO MOVES THE TIMING BELT; THE CONNECTION BETWEEN THE TIMING BELT AND BLADES IS PROVIDED BY WHEELS MADE OF REINFORCED NYLON 6. THE MAXIMUM DISTANCE BETWEEN 2 RAILS COULD BE 4 METERS. IF THE WIDTH OF THE SYSTEM IS MORE SIGNIFICANT THAN 4 METERS, THERE HAS TO BE ONE MORE RAIL TO INCLUDE THE SYSTEM. THUS BLADES CAN ENDURE EXTREME LOADS WITHOUT BENDING. BY ADDING THE SYSTEMS ONE AFTER THE OTHER, THE AREA CAN BE DESIGNED IN THE DESIRED DIMENSIONS. AT SOME POINT, ADDING SYSTEMS TO EACH OTHER IS SIMILAR TO STANDARD PERGOLA SYSTEMS.

HUUN LAMELLA OFFERS COMFORT ALL YEAR LONG DURING FOUR SEASONS. IN ADDITION TO THIS, THE SYSTEM CAUSES NATURAL LIGHTING AND VENTILATION. THEREFORE, IT IS POSSIBLE TO KEEP BLADES OPEN AT A CERTAIN POINT TO ENJOY THE NICE WEATHER OR CLOSE IT TIGHTLY TO AVOID UNFAVORABLE WEATHER CONDITIONS.

HUUN LAMELLA IS THE SIGN OF COMFORT FOR FOUR SEASONS DURING THE YEAR. WITH ITS ULTIMATE, OUTSTANDING LOOK, HUUN LAMELLA IS NOT ONLY PRACTICAL BUT ALSO ESTHETICS.



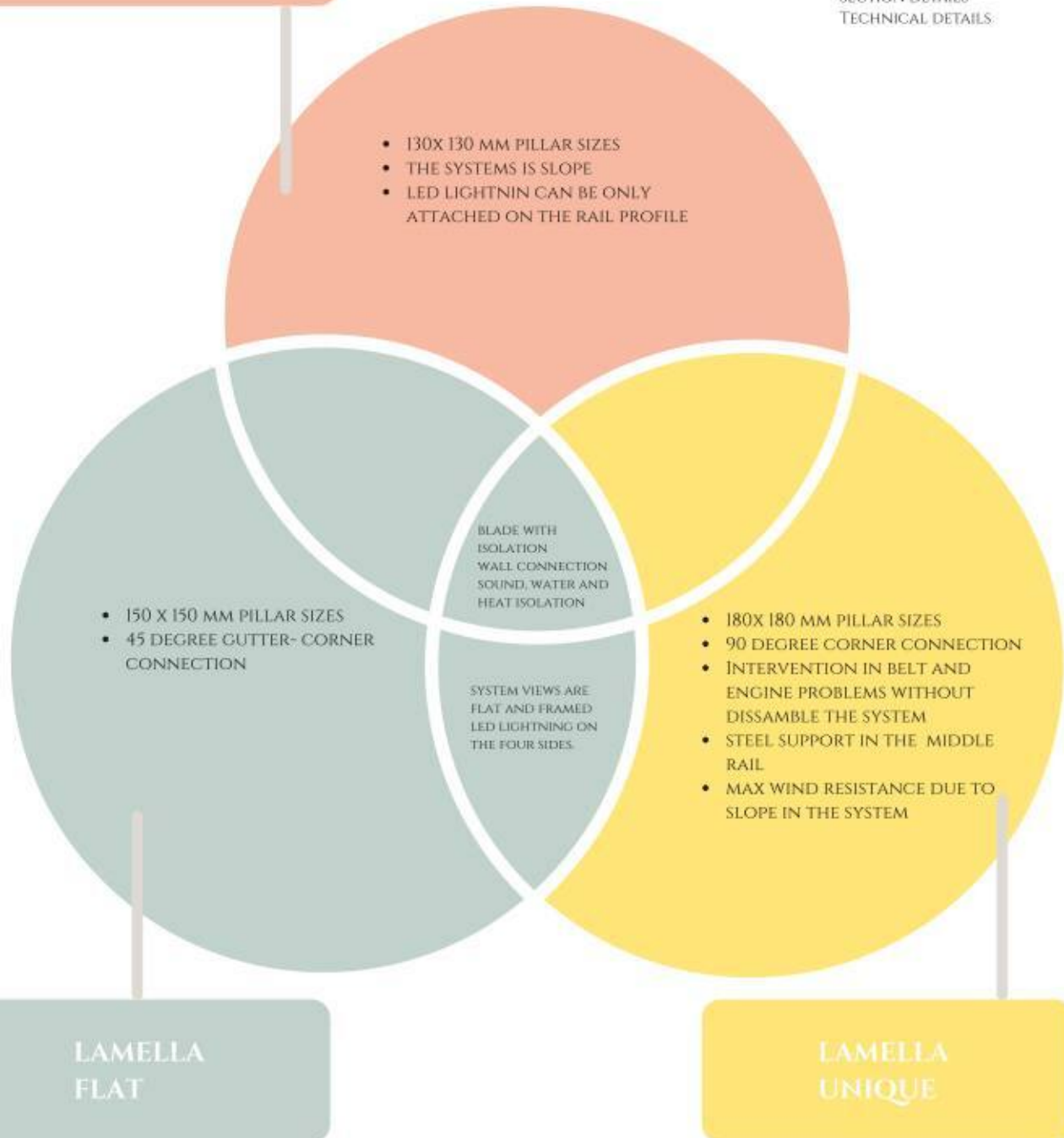


LAMELLA STANDARD

POSSIBLE LAYOUTS

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ADVANTAGES



THIS INNOVATIVE SYSTEM **ALLOWS YOU TO ENJOY COOL ENVIRONMENT IN SUMMER**, CONSIDERABLY REDUCING THE INSIDE TEMPERATURE



HIGHLY **SEALING** CAUSED BY THE SLOPE IN THE SYSTEM



HIGHLY RESISTANT ALUMINUM STRUCTURE PROVIDES UTMOST SECURITY, EVEN IN **STRONG WINDS UP TO 115 KM/H**



SINCE THE LAMELLA PROFILES USED IN THE SYSTEM ARE SELF-INSULATED, THEY KEEP THE HEAT PERMEABILITY IN THE SYSTEM AT A MINIMUM.



HIGH-QUALITY PAINTED OR ANODIZED ALUMINUM PROFILES GUARANTEED UNBEATABLE DURABILITY EVEN IN HARSH CONDITIONS LIKE SALTNESS.



THE SYSTEM **GUARANTEES A SIGNIFICANT REDUCTION OF SOUND AT INSIDE AND OUTSIDE OF COVERING.**



AVOID THE UNDESIRABLE PHENOMENON OF CONDENSATION WHICH IS VERY COMMON WITH TRADITIONAL COVERING.

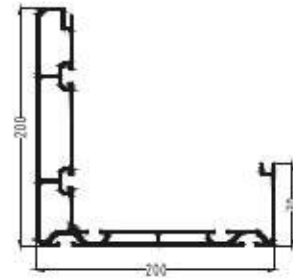




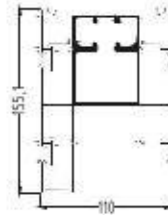
LAMELLA FLAT PROFILES

OVERVIEW

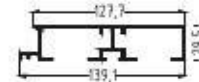
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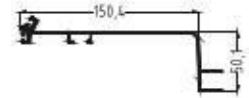
4732
WEIGHT _(kg/m) 6521



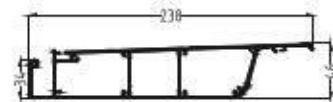
12901
WEIGHT _(kg/m) 6882,5



M6440
WEIGHT _(kg/m) 1534



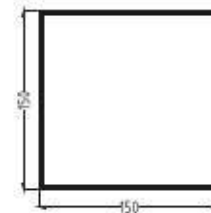
M6437
WEIGHT _(kg/m) 1331,7



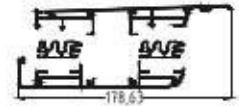
10325
WEIGHT _(kg/m) 3467



M6283
WEIGHT _(kg/m) 317,4



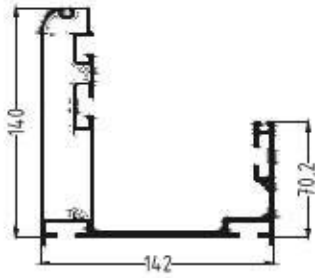
A9906
WEIGHT _(kg/m) 4780



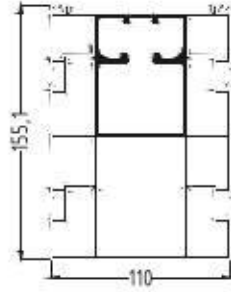
M6663-M6664
WEIGHT _(kg/m) 5350

LAMELLA STANDART PROFILES

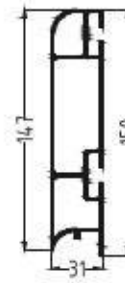
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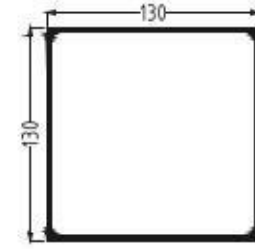
12452
WEIGHT $_{(g/m)}$ 4188,5



12901
WEIGHT $_{(g/m)}$ 6882,5



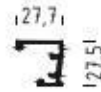
11663
WEIGHT $_{(g/m)}$ 1924



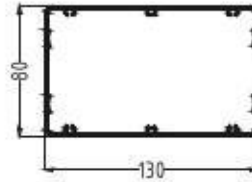
4599
WEIGHT $_{(g/m)}$ 4173



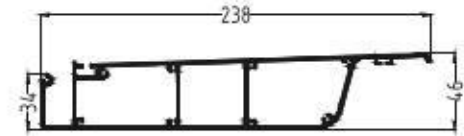
M6337
WEIGHT $_{(g/m)}$ 857,6



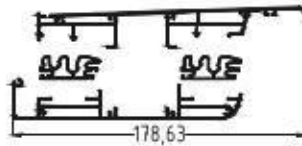
M6283
WEIGHT $_{(g/m)}$ 317,4



M6243
WEIGHT $_{(g/m)}$ 2526,6

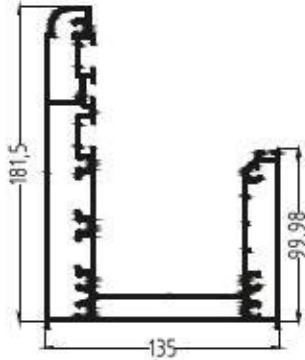


10325
WEIGHT $_{(g/m)}$ 3467



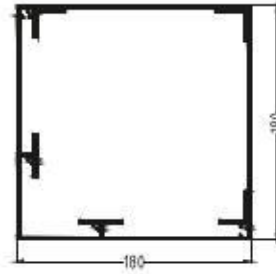
M6663-M6664
WEIGHT $_{(g/m)}$ 5350

LAMELLA UNIQUE PROFILES



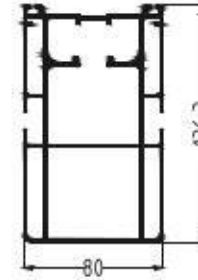
O.5620

WEIGHT 12280
(g/m)



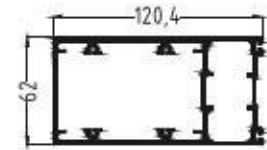
O.5621

WEIGHT 7440
(g/m)



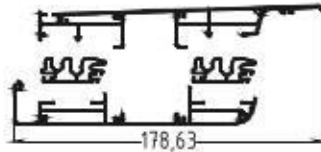
O.5619

WEIGHT 4250
(g/m)



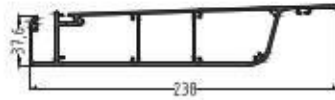
M6799

WEIGHT 3279
(g/m)



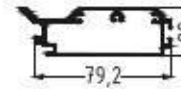
M6663-M6664

WEIGHT 5350
(g/m)



10325

WEIGHT 3467
(g/m)



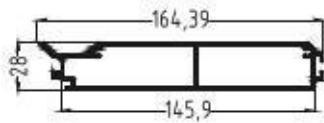
M6796

WEIGHT 1250
(g/m)



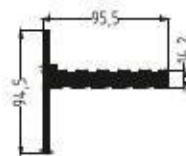
M6795

WEIGHT 2300
(g/m)



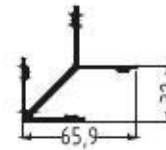
M6797

WEIGHT 1250
(g/m)



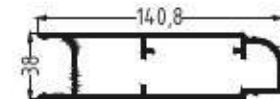
M6801

WEIGHT 4306
(g/m)



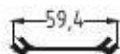
M5145

WEIGHT 1120
(g/m)



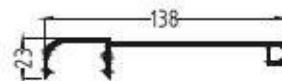
M6355

WEIGHT 2151
(g/m)



M6798

WEIGHT 315
(g/m)



M6801

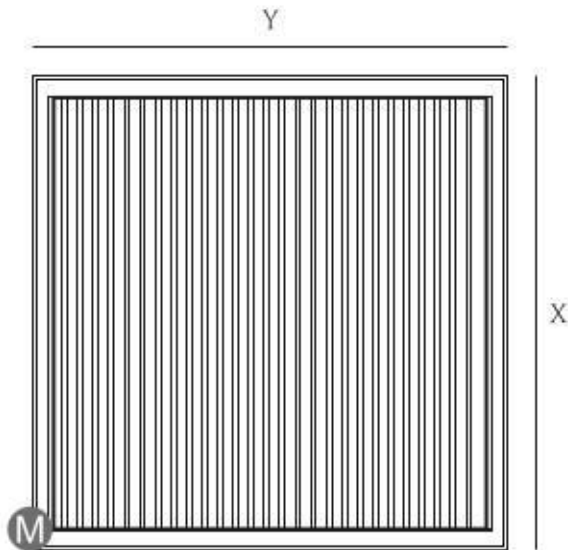
WEIGHT 4306
(g/m)

APPLICATIONS AND SIZE OPTIONS

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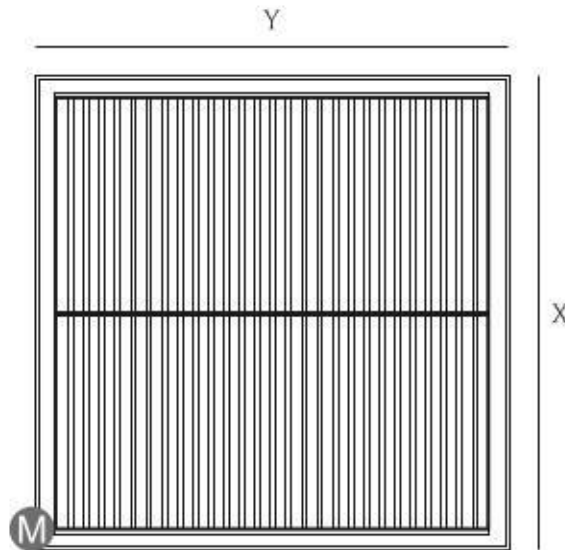
LAMELLA 2 RAIL

STANDARD, FLAT AND UNIQUE



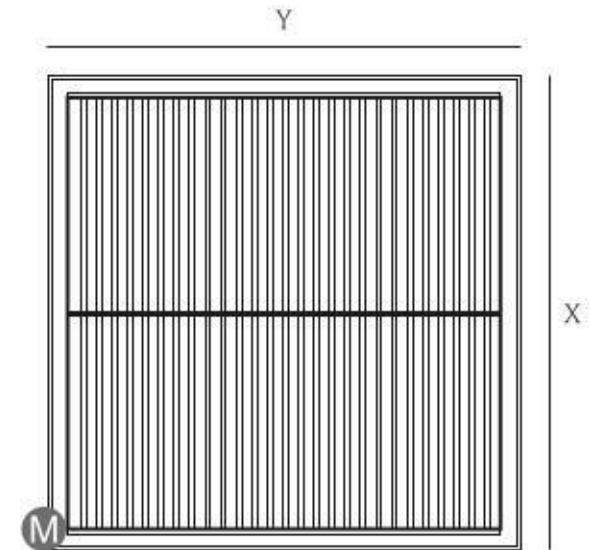
LAMELLA 3 RAIL

STANDARD AND FLAT



LAMELLA 3 RAIL

UNIQUE



	WIDTH MIN	WIDTH MAX	MAX m²
x	1000 mm	5000 mm	30 m²
y	1000 mm	8000 mm	
z	Depend on Project (height)		

- System dimensions must remain between the minimum and maximum dimensions given above.
- Regardless of system dimensions, the total area of a system cannot exceed 30 square meters.

	WIDTH MIN	WIDTH MAX	MAX m²
x	1000 mm	8500 mm	40 m²
y	1000 mm	10000 mm	
z	Depend on Project (height)		

- System dimensions must remain between the minimum and maximum dimensions given above.
- Regardless of system dimensions, the total area of a system cannot exceed 40 square meters.

	WIDTH MIN	WIDTH MAX	MAX m²
x	1000 mm	8500 mm	60 m²
y	1000 mm	10000 mm	
z	Depend on Project (height)		

- System dimensions must remain between the minimum and maximum dimensions given above.
- Regardless of system dimensions, the total area of a system cannot exceed 60 square meters.

CALCULATIONS

BLADE PCS.	HUUN LAMELLA					
	LAMELLA		LAMELLA FLAT		LAMELLA UNIQUE	
	PROJECTION LENGHT	PARKING POSITION DISTANCE	PROJECTION LENGHT	PARKING POSITION DISTANCE	PROJECTION LENGHT	PARKING POSITION DISTANCE
5	1000	590	1000	590	1000	590
6	1200	650	1200	650	1200	650
7	1400	710	1400	710	1400	710
8	1600	770	1600	770	1600	770
9	1800	830	1800	830	1800	830
10	2000	890	2000	890	2000	890
11	2200	950	2200	950	2200	950
12	2400	1010	2400	1010	2400	1010
13	2600	1070	2600	1070	2600	1070
14	2800	1130	2800	1130	2800	1130
15	3000	1190	3000	1190	3000	1190
16	3200	1250	3200	1250	3200	1250
17	3400	1310	3400	1310	3400	1310
18	3600	1370	3600	1370	3600	1370
19	3800	1430	3800	1430	3800	1430
20	4000	1490	4000	1490	4000	1490
21	4200	1550	4200	1550	4200	1550
22	4400	1610	4400	1610	4400	1610
23	4600	1670	4600	1670	4600	1670
24	4800	1730	4800	1730	4800	1730
25	5000	1790	5000	1790	5000	1790
26	5200	1850	5200	1850	5200	1850
27	5400	1910	5400	1910	5400	1910
28	5600	1970	5600	1970	5600	1970
29	5800	2030	5800	2030	5800	2030
30	6000	2090	6000	2090	6000	2090
31	6200	2150	6200	2150	6200	2150
32	6400	2210	6400	2210	6400	2210
33	6600	2270	6600	2270	6600	2270
34	6800	2330	6800	2330	6800	2330
35	7000	2390	7000	2390	7000	2390
36					7200	2450
37					7400	2510
38					7600	2570
39					7800	2630
40					8000	2690

LAMELLA STANDARD SECTION DETAILS

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LAMELLA FLAT SECTION DETAILS



LAMELLA UNIQUE SECTION DETAILS

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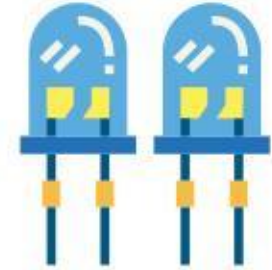


TECHNICAL DETAILS



ALUMINUM: ALL OF THE ALUMINIUM AT HUUN SYSTEMS ARE MADE OF 1ST QUALITY 6063 ALLOYS WITH T6 HEAT TREATMENT AT OUR FACILITIES. THUS WE CAN CONTROL ALUMINUM EXTRUSION PARAMETERS FROM RAW MATERIAL TO THE FINAL PRODUCT TO ENSURE THE INTENDED RATE IS ACHIEVED. ALUMINUM IS NOT ONLY CORROSION-PROOF AND LIGHT, BUT IT IS ALSO INTENSIVELY DURABLE, AND WITH THESE FEATURES, IT IS THE BEST MATERIAL FOR HUUN // LAMELLA SYSTEM

LIGHTENING: ELEGANT AND EXTRAORDINARY LED LIGHTING IS OFFERED FOR HUUN // LAMELLA SYSTEM. ROUGH EVERY RAIL, LED LIGHTNING MIGHT BE APPLIED USING SPECIALLY DEVELOPED LED PROFILES AND POLYCARBONATE COVERS. LED PROFILES ARE ABLE TO USER ADJUST THE ANGLE OF LIGHTNING. THREE ANGLE OPTIONS ARE PRESENTED. OPTIONS FOR THE LED ANGLES ARE; PARALLEL TO THE GROUND, 45 DEGREES, AND 90 DEGREES. DAYLIGHT IS OFFERED AS STANDARD; HOWEVER RGB OPTION IS ALSO AVAILABLE. HUUN // LAMELLA PROVIDES END USERS WITH A SOPHISTICATED OUTDOOR LIVING AREA NOT ONLY DURING THE DAY BUT ALSO DURING THE NIGHTTIME



MOTOR: TUBULAR MOTOR DESIGN MEETS THE NEEDS OF MANY SHADING AND WINDOW SYSTEM APPLICATIONS. THESE MOTORS ARE OFFERED IN VARIOUS SIZES AND CAN USE DIFFERENT OPTIONS FOR PROJECTS OF ALL SHAPES AND SIZES. IN ADDITION, THE ENGINES ARE ADAPTABLE TO BE CONTROLLED WITH REMOTE CONTROLS AND MOBILE APPS.

CHOICE OF COLORS: VARIOUS HIGH-QUALITY COATING OPTIONS WITH QUALICOAT CERTIFICATION, ANODIZED OR WOOD-COVERED SURFACES FOR ALUMINUM, LETS CUSTOMERS CUSTOMIZE HUUN // LAMELLA. BESIDES ALL, IT HELPS TO PROVIDE ROBUST DURABILITY TO ALUMINUM.

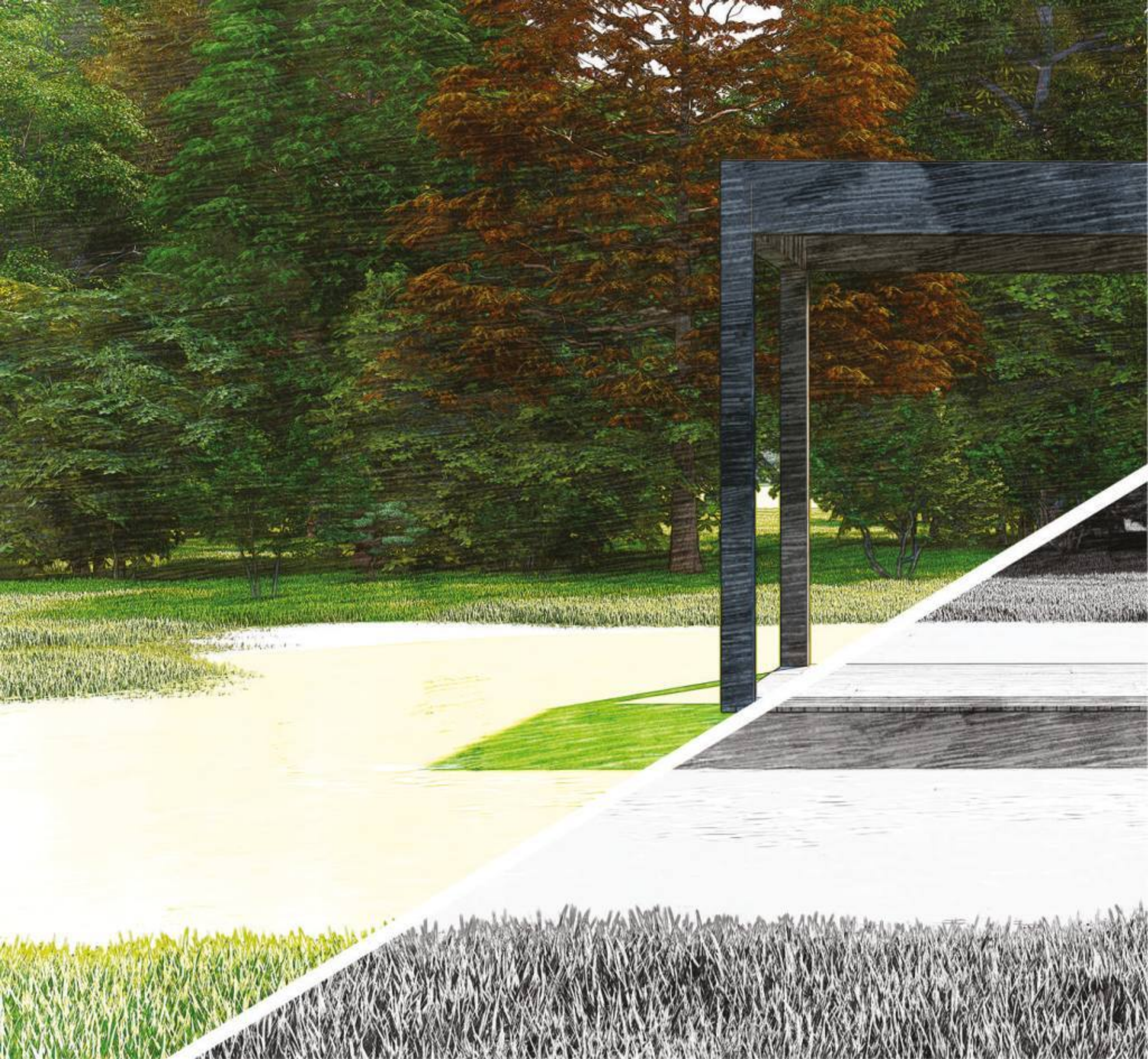


TIMING BELT: A TIMING BELT IS ONE OF THE BEST OPTIONS FOR SOME SYSTEMS. HUUN // LAMELLA IS ONE OF THEM. THE BODY IS MADE OF THERMOPLASTIC POLYURETHANE WITH HIGH WEAR RESISTANCE. TENSION CORDS ARE STEEL WITH HIGH TENSILE STRENGTH AND ELASTIC MODULUS.

PLASTICS: HIGH-QUALITY PLASTICS WITH MINIMAL SIZES OFFER THE PERFECT LOOKING AND MATCH PERFECTLY WITH BLADES. WITH THIS ADVANTAGE, DURING TIME SYSTEM WILL REMAIN ON ITS FIRST DAY.



WHEELS: 6 ROLLERS ARE BEARING AT BIG WHEEL, FOUR ROLLER BEARING AND SMALL WHEEL PROVIDES SMOOTH SLIDE AND SILENT OPERATION WHILE OPENING AND CLOSING SYSTEM. BESIDES ALL, IT INCREASES THE SYSTEM'S LIFETIME WHILE DECREASING MAINTENANCE COSTS. THE FIRST CLASS RAW MATERIAL IS ALWAYS USED FOR THE PLASTIC PART OF WHEELS. IN ADDITION TO THIS, WHEELS ARE DESIGNED ACCORDING TO THE MINIMALIST POINT OF VIEW. THEREFORE WHEN THE SYSTEM IS CLOSED, BLADES TAKE UP A SMALLER AREA AT THE REAR SIDE OF THE SYSTEM.







HUUN®

ALUMINIUM TECHNOLOGY

30 years of experience enables HUUN to offer a complete range of outdoor solutions which made of aluminum alloy, precious fabrics, and glass. HUUN creates sustainable outdoor shading and joinery solutions made of aluminum, that focuses on people and their needs in harmony with nature and technology. The solutions provide minimal operational costs, reduce exterior noise, improve public health and provide high quality fresh air to end users. With outstanding quality, design, and functionality, HUUN is bringing thoughts and feelings of engineers, architects, and designers to life...

Emre Alüminyum Factory

📍 İshaklı Mah. Serinsu Cad. No:5
34829 Beykoz / İSTANBUL
☎ +90 216 561 82 46
✉ info@emrealuminyum.com.tr
🌐 www.huun.com.tr



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