

Mounting System Solutions 2

2025



Tile Roof Mounting Solution

LE Tile Roof Mounting Solution has great flexibility and suitable for pitched rooftop. The innovative design made the installation easier. It's pre-assembly and customised solution has been time-saving and cost-efficient.

Main Components

Technical Darameters











RAIL

MID CLAMP

RAIL SPLICER

HOOK

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Max Wind Capacity	45m/s	
Max Snow Capacity	0.8KN/m2	
Span Range	0.1 - 1.8m	
Design Standard	A/SNZS1170, ASCE 7-05 DIN1044, BSEN1990:2002 BSEN1991-1-3:2002	
Installation Site	Tile Roof	
Main Material	AL6005-T5	
Fastener Material	SUS304	
Applicable Modules	Frame or Frameless	
Component Arrangement	Horizontal/Vertical	
Warranty Period	10 Years	





Tin Roof L Feet Mounting Solution

LE Tile Roof Mounting Solution has great flexibility and suitable for pitched rooftop. The innovative design made the installation easier. It's pre-assembly and customised solution has been time-saving and cost-efficient.

Main Components









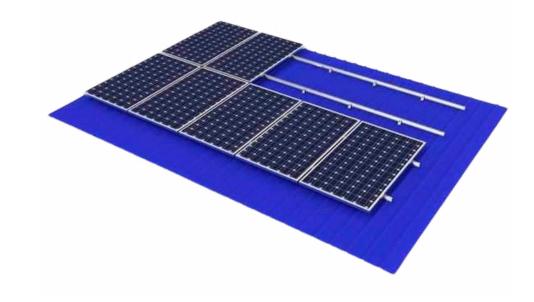


RAIL SPLICER

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		i Paramerers.

RAIL

Max Wind Capacity	45m/s
Max Snow Capacity	0.8KN/m2
Span Range	0.1 - 1.8m
Design Standard	A/SNZS1170, ASCE 7-05 DIN1044, BSEN1990:2002 BSEN1991-1-3:2002 BSEN1991-1-4:2005
Installation Site	Tile Roof
Main Material	AL6005-T5
Fastener Material	SUS304
Applicable Modules	Frame or Frameless
Component Arrangement	Horizontal/Vertical
Warranty Period	10 Years





Tin Roof Mounting Solution

LE Trapezoidal Mounting Solution is widely used in large scale warehouse and workshop tin roofs. It 's structural efficient and easy installed which is time saving, cost-efficient and durable.

Main Components





END CLAMP







LIGHT RAIL

MID CLAMP

RAIL SPLICER

KLIPLOK CLAMP

Tec	nnical	Param	eters:

Max Wind Capacity	45m/s
Max Snow Capacity	0.8KN/m2
Span Range	0.1 - 1.8m
Design Standard	A/SNZS1170, ASCE 7-05 DIN1044, BSEN1990:2002 BSEN1991-1-3:2002 BSEN1991-1-4:2005
Installation Site	Tin Roof
Main Material	AL6005-T5
Fastener Material	SUS304
Applicable Modules	Frame or Frameless
Component Arrangement	Horizontal/Vertical
Warranty Period	10 Years



Tin Roof Adjustable Mounting Solution



LE Adjustable Mounting Solution is lightweight with good strength and great corrosion stability. You can choose the best installation angle according to the longitude and latitude.

Technical Parameters:		
Max Wind Capacity	42m/s	
Max Snow Capacity	1KN/m2	
Span Range	0.6 - 2.5m	
Installation Angle Division	±2°	
Adjustable Angle	10-15°, 15-30°, 30-60°	
Design Standard	AS/NZS1170, ASCE 7-05, DIN1044, BSEN1990: 2002, BSEN1991-1-3: 2002, BSEN199-1-4:2005	
Installation Site	Tin Roof	
Main Material	AL6005-T5	
Fastener Material	SUS304	
Applicable Modules	Frame	
Component Arrangement	Vertical	
Warranty Period	10 Years	



Flat Concrete Roof Triangle Mounting Solution ⁵



LE Triangle roof mounting system is suitable for concrete rooftop. It is lightweight, firm and material recyclable. It's also preassembly, less installation process on site

Max Wind Capacity	42m/s	
Max Snow Capacity	1KN/m2	
Span Range	0.6 - 2.5m	
Installation Angle Division	±2°	
Adjustable Angle	10-15°, 15-30°, 30-60°	
Design Standard	AS/NZS1170, ASCE 7-05, DIN1044, GB50797-2012, GB5009-2012, BSEN1990: 2002, BSEN1991-1-3: 2002, BSEN199-1-4:2005	
Installation Site	Concrete Roof	
Main Material	AL6005-T5	
Fastener Material	SUS304	
Applicable Modules	Frame	
Component Arrangement	Horizontal/Vertical	
Warranty Period	10 Years	



Light Ballast Mounting Solution



LE Light ballast mounting solution is specially designed for thenon-penetrating flat roof. The system is mainly used to fix the whole system by cement ballast to achieve strong wind resistance. The professional design makes the installation more convenient.

Technical Parameters:	
Max Wind Capacity	42m/s
Max Snow Capacity	1KN/m2
Span Range	0.6 - 2.5m
Installation Angle Division	±2°
Tilt Angle	10-15°, 15-30°, 30-60°
Design Standard	AS/NZS1170, ASCE 7-05, DIN1044, GB50797-2012, GB5009-2012, BSEN1990: 2002, BSEN1991-1-3: 2002, BSEN199-1-4:2005
Installation Site	Flat Concrete Roof
Main Material	AL6005-T5
Fastener Material	SUS304
Applicable Modules	Frame
Component Arrangement	Horizontal/Vertical
Warranty Period	10 Years





Adjustable Ballast Mounting Solution ^C



LE Adjustable ballast mounting Solution is specially designed for the non-penetrating flat roof. The system is mainly used to fix the whole system by cement ballast to achieve strong wind resistance. The professional design makes the installation more convenient.

Technical Parameters:	
Max Wind Capacity	42m/s
Max Snow Capacity	1KN/m2
Installation Angle	5°, 10°, 15°, 20°
Design Standard	AS/NZS1170 ASCE 7-05, DIN1044 GB50797-2012, GB 50017-2003
Installation Site	Flat Concrete Roof
Main Material	Q235B
Fastener Material	SUS304
Applicable Modules	Frame
Component Arrangement	Horizontal/Vertical
Warranty Period	10 Years



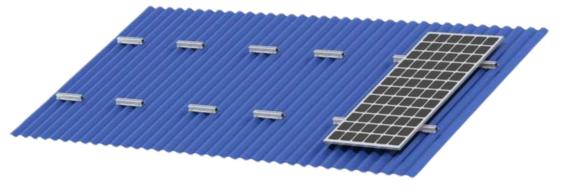
All Aluminium Ground Mounting Solution ⁶



LE All Aluminum Ground Mounting Solution can be installed with concrete foundations or ground screws. It is lightweight, firm and material recyclable. It is also preassembled, so the installation process onsite is minimal.

May Wind Canacity	52m/s
Max Wind Capacity	32111/3
Max Snow Capacity	1.5KN/m2
Span Range	2.5-3.8M
Installation Angle Division	±2°
Design Standard	AS/NZS1170, ASCE 7-05,
	DIN1044, BSEN1990: 2002,
	BSEN1991-1-3: 2002,
	BSEN199-1-4:2005
Installation Site	Flat Concrete Roof or Ground
Main Material	AL6005-T5
Fastener Material	SUS304
Applicable Modules	Frame
Component Arrangement	Horizontal/Vertical
Warranty Period	10 Years



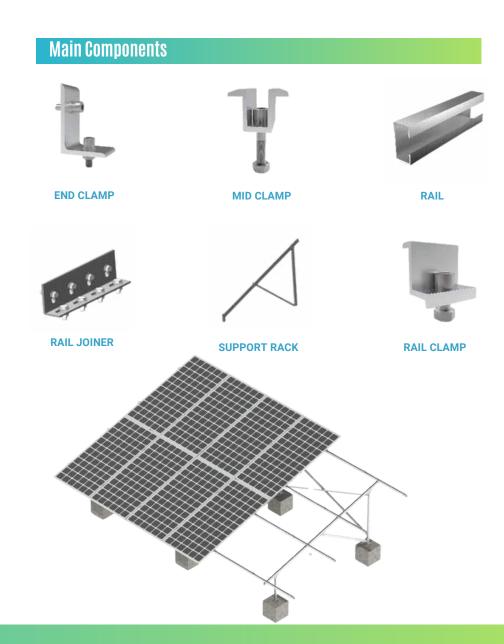


Concrete Foundation Mounting Solution



LE Steel Concrete Foundation Mounting Solution is strong overall stability, wind and snow resistance. For different foundations, the system can be fixed on concrete base with embedded anchor bolt, or fixed with ground screw. It is flexible in design, diversified in Solution and wide in application.

Technical Parameters:	
Max Wind Capacity	52m/s
Max Snow Capacity	1.5KN/m2
Span Range	0.6-3.2M
Installation Angle Division	±2°
Design Standard	AS/NZS1170, ASCE 7-05,
	DIN1044, BSEN1990: 2002,
	BSEN1991-1-3: 2002,
	BSEN199-1-4:2005
Installation Site	Flat Concrete Roof or Ground
Main Material	Zinc Aluminum Magnesium(ZAM) coating stee
Fastener Material	SUS304
Applicable Modules	Frame or Frameless
Component Arrangement	Horizontal/Vertical
Warranty Period	10 Years





Single pole Steel Pile Mounting Solution

Steel Pile Mounting System is designed to provide an economical and practical mounting solution for large-scale open areas. Suitable for both framed and frameless modules. Compatible with pile driving ram making installations on the open area easy. Long service life of minimum 25 years enabled due to the high-quality materials.

Technical Parameters:	
Max Wind Capacity	60m/s
Max Snow Capacity	3KN/m2
Installation Angle Division	±2°
Design Standard	JIS C8955:2017
Installation Site	Ground
Main Material	Q235B & Zinc Aluminum Magnesium(ZAM) coating steel
Fastener Material	SUS304
Applicable Modules	Frame or Frameless
Component Arrangement	Horizontal/Vertical
Warranty Period	10 Years

Main Components



RAIL





DIAGONAL BRACING



SHAPED STEEL



GRIDER



RAIL JOINER



END CLAMP



MID CLAMP



RAIL CLAMP

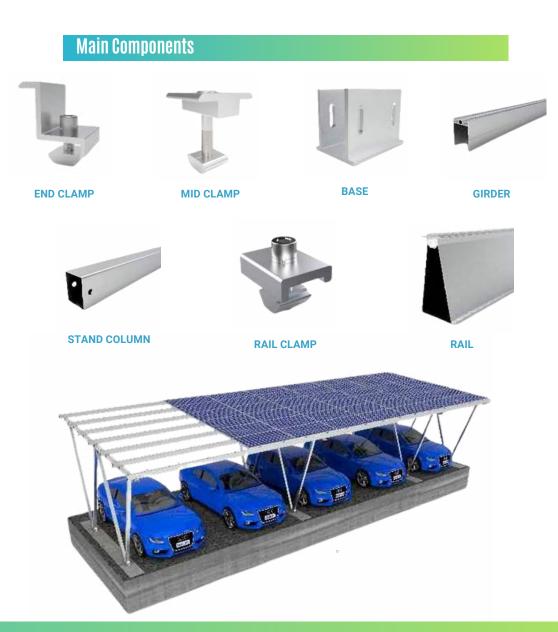


Carport Aluminum Mounting Solution



The Aluminum carport structure with W type is suitable for installation conditions with medium load, larger installation angle of the carport, and the layout with more rows. Both waterproof and non-waterproof types can be designed according to requirements. Its special structural design allows two or four cars to be freely combined as a unit to maximize the use of space.

Technical Parameters:	
Max Wind Capacity	60m/s
Max Snow Capacity	3KN/m2
Installation Angle Division	±2°
Design Standard	JIS C8955:2017
Installation Site	Ground
Main Material	AL6005-T5
Fastener Material	SUS304
Applicable Modules	Frame or Frameless
Component Arrangement	Horizontal/Vertical
Warranty Period	10 Years



Solar Canopies

Car Park Utilisation



Key Features



Efficient Use of Space



Integration with EV Charging Stations & BESS



Scalable Solution & Vehicle Protection



Energy Cost Reduction & Revenue Generation



Customisable Framework

BESPOKE SYSTEM

Maximise unutilised space by transforming parking locations into revenue generating assets

Models are customisable and manufactured to your infrastructure requirements.

When combined with BESS Solar canopies and EV become a consistent cost-effective revenue asset, serving both your employees, customers and the general public.



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Operation and Maintenance

Immersa's service package is designed to optimise the performance, reliability, and lifespan of your Battery Energy Storage System (BESS). With proactive maintenance, potential issues are identified and resolved early, minimizing downtime and preventing unexpected problems.

Regular system checks extend your BESS's lifespan, protecting your investment and providing long-term value. The package includes priority support for quick issue resolution, helping avoid costly emergency repairs and manage budgets more effectively.

You'll also gain access to Alpha Cloud, a digital monitoring tool offering real-time data and smart management for maximum efficiency and cost savings. Immersa ensures your BESS operates at peak performance, supporting your energy goals.

Benefits of 0&M

- Ongoing System Reliability: You'll receive proactive maintenance schedules, assessing and improving the system's mechanical and electrical
 configuration regularly. This will ensure any system issues are identified and prevented from escalating, ensuring the system does not
 experience any unexpected downtime and consequential energy management problems.
- **Extended System Lifetime:** Quarterly Regular maintenance, prompt issue identification, and reporting to assess the BESS current operating condition. This aims to extend the lifespan of your BESS, protecting your return on investment and long-term system value.
- **Priority Support:** As part of this exclusive offering, you'll receive priority access to our technical support team, ensuring any issues are addressed quickly and effectively.
- Cost Savings: Identification and prevention of issues through proactive maintenance guarantees that you will avoid any unforeseen high-expenditure and cash management issues associated with emergency fixes or component replacements. Immersa's service will instead allow you to budget more predictably and affordably to ensure your system's performance is optimised throughout your lifetime.



Operation and Maintenance

As part of Immersa's installation and LTSA package, every system includes a free digital system monitoring platform, the Alpha Cloud.

This package allows you and Immersa to monitor your system, providing real-time data into the battery's current capacity, state of charge, and performance. It will provide both parties with the option to update any configuration preferences to optimise your energy requirements, tailoring it towards your objectives no matter the context.

The software is further capable of monitoring and using the data to create accurate forecasts for supply and demand, enabling its smart management system to charge and discharge accordingly to maximise self-consumption, revenues and cost savings.

Immersa & Alpha's dedicated technical team and engineers will be able to use this platform to locate system faults, troubleshoot issues, and update its configuration to guarantee safe operations and performance optimisation throughout its lifetime.



ALL O&M contracts are bespoke based on the solutions we have provided and the customer's needs. To find out more about how we can help you get the best contract for you system get in touch today and speak to one of our experts.



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