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MOUNTING SYSTEM

Tile Roof System

Side-fastening rail system for pitched tile & slate roofs — adjustable leak-free hooks

60 m/s MAX WIND LOAD

25 yr STRUCTURAL WARRANTY

Adjustable leak-free fixing

- Height-adjustable tile hooks clear the tile profile — no cracked tiles, no leaks
- Suits flat, Roman, slate & corrugated tiles
- Side-fastening rail allows fine height alignment

Strong & corrosion-proof

- Anodised aluminium 6005-T5 rail + SUS304 fasteners
- Wind-rated 60 m/s, snow 1.4 kN/m²
- 25-year structural service life

Fast installation

- Pre-assembled clamps & hooks — fewer parts, quicker mounting
- Universal mid / end clamps fit all framed modules 30–40 mm
- Integrated grounding (UL 2703)

Key specifications

Rail material	**Anodised AL6005-T5**
Fasteners / hook	**Stainless steel 304**
Module orientation	**Portrait**
Module thickness	**30 – 40 mm**
Roof pitch	**Up to 60°**
Wind / snow load	**60 m/s · 1.4 kN/m²**
Service life	**25 years**
Warranty	**Up to 25 years**

LOAD & DURABILITY

Wind load		**60 m/s**
Snow load		**1.4 kN/m²**
Corrosion class		**C5-M**
Service life		**25 yr**

- **AL6005-T5 + SS304** — anodised, corrosion-proof
- **Tile roof hooks** — adjustable, leak-free
- **Pre-assembled** — fast tool-light install
- **Certified** — TÜV · AS/NZS 1170

WHY COTECH

Engineered & load-certified
Project structural calculation provided on request

COMPATIBILITY

- Tile / slate roofs
- Framed modules
- Portrait layout
- 30–40 mm frames
- Up to 60° pitch
- Pre-assembled

APPLICATIONS

Residential · C & I · Utility · Off-grid

SYSTEM COMPONENTS

- Mounting rail
- Rail splice
- Tile roof hook
- Mid clamp
- End clamp
- Grounding lug

MATERIALS & FINISH

Aluminium	**AL6005-T5 anodised ≥15 µm**
Steel finish	**ZAM / hot-dip galvanised**
Corrosion class	**C5-M (coastal option)**
Grounding	**Integrated · UL 2703**

CERTIFICATION & QUALIFICATION

TÜV · UL 2703 · CE · AS/NZS 1170.2 · ISO 9001 · SGS

Load ratings depend on site, layout & fixing. Specifications subject to change.

Tile Roof System — specifications

Specification	Data
Materials & structure	
Rail material	Anodised aluminium 6005-T5
Fasteners / hook	Stainless steel 304
Roof hook	Adjustable tile hook (leak-free)
Module orientation	Portrait
Module thickness	30 – 40 mm (framed)
Roof pitch	Up to 60°
Load & compliance	
Max wind load	60 m/s (216 km/h)
Max snow load	1.4 kN/m²
Design pressure	up to 2.4 kPa
Corrosion class	C5-M coastal · salt-spray ≥ 1000 h
Service life	25 years
Standards	AS/NZS 1170.2 · TÜV · UL 2703 · CE
Warranty	Up to 25 years (structural)
System	
Components	Rail · splice · tile hook · mid/end clamp · grounding lug
System size	Customised per project

MECHANICAL & SYSTEM

Mechanical	Data
Surface finish	**Silver anodised / black**
Anodising thickness	**≥ 15 µm**
Fastener grade	**Stainless steel 304 / 316**
Steel finish (carport)	**Hot-dip galvanised**
Packing	**Customised, export-grade**
Lead time	**2 – 3 weeks (typical)**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped · **120+** countries · **TÜV · CE** certified

COMPATIBILITY

- Tile / slate roofs
- Framed modules
- Portrait layout
- 30–40 mm frames
- Up to 60° pitch
- Pre-assembled

Mount it once. Trust it for 25 years.

Anodised-aluminium & stainless structures — 60 m/s wind, C5-M coastal-grade, 25-year service.

COTECH SOLAR — a vertically-integrated solar manufacturer since 2005, a Top-50 global brand.
20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

25-yr structural warranty — anodised AL · SS304 · ZAM steel
60 m/s wind-rated — TÜV · AS/NZS 1170.2
C5-M coastal-grade — salt-spray ≥ 1000 h
Pre-assembled — tool-light, fast install

25 yr warranty · **60 m/s** wind-rated · **C5-M** corrosion class · **TÜV · CE** certified

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MOUNTING SYSTEM

Flat Roof System

Adjustable-tilt ballasted system for flat roofs — bitumen, gravel, green & concrete

10–40° ADJUSTABLE TILT

25 yr STRUCTURAL WARRANTY

Optimised tilt & yield

- Fixed-angle front/rear feet set 10°, 20°, 25° or 40° for best yield
- Aerodynamic layout reduces wind uplift & ballast
- Suits foil, bitumen, gravel, green roof, metal & concrete

Penetration-free option

- Ballasted design protects the waterproof membrane
- Up to 25 m building height; 5° max roof inclination
- Wind-rated 60 m/s, snow 1.4 kN/m²

Built to last

- Anodised aluminium 6005-T5 + SS304 fasteners
- 25-year service life, up to 25-year warranty
- Universal clamps fit all framed modules

- **Adjustable tilt** — 10° / 20° / 25° / 40°
- **Ballasted** — penetration-free option
- **AL6005-T5 + SS304** — anodised, corrosion-proof
- **Certified** — TÜV · AS/NZS 1170

WHY COTECH

Engineered & load-certified
Project structural calculation provided on request

COMPATIBILITY

- Flat roofs
- Bitumen / gravel / green
- Concrete / metal
- Ballasted
- Penetration-free
- Framed modules

APPLICATIONS

Residential · C & I · Utility · Off-grid

SYSTEM COMPONENTS

- Front foot
- Rear foot
- Mounting rail
- Mid clamp
- End clamp
- Ground lug

Key specifications

Material	**Anodised AL6005-T5 · SS304**
Module orientation	**Portrait**
Inclination	**10° / 20° / 25° / 40°**
Building height	**≤ 25 m**
Roof inclination	**≤ 5°**
Wind / snow load	**60 m/s · 1.4 kN/m²**
Service life	**25 years**
Warranty	**Up to 25 years**

LOAD & DURABILITY

Wind load	**60 m/s**
Snow load	**1.4 kN/m²**
Corrosion class	**C5-M**
Service life	**25 yr**

MATERIALS & FINISH

Aluminium	**AL6005-T5 anodised ≥15 µm**
Steel finish	**ZAM / hot-dip galvanised**
Corrosion class	**C5-M (coastal option)**
Grounding	**Integrated · UL 2703**

CERTIFICATION & QUALIFICATION

TÜV · UL 2703 · CE · AS/NZS 1170.2 · ISO 9001 · SGS

Load ratings depend on site, layout & fixing. Specifications subject to change.

Adjustable Flat Roof System — specifications

Specification	Data
Materials & structure	
Material	Anodised aluminium 6005-T5 + SS304
Module orientation	Portrait
Module type	Framed modules
Inclination angles	10° / 20° / 25° / 40°
Building height	≤ 25 m
Roof inclination	≤ 5° max
Load & compliance	
Max wind load	60 m/s (216 km/h)
Max snow load	1.4 kN/m²
Design pressure	up to 2.4 kPa
Corrosion class	C5-M coastal · salt-spray ≥ 1000 h
Service life	25 years
Standards	AS/NZS 1170.2 · TÜV · UL 2703 · CE
Warranty	Up to 25 years (structural)
System	
Components	Front/rear foot · rail · mid/end clamp · ground lug · expansion bolt M8×100
Fixing	Ballasted or anchored (penetration-free option)
System size	Customised per project

MECHANICAL & SYSTEM

Mechanical	Data
Surface finish	**Silver anodised / black**
Anodising thickness	**≥ 15 µm**
Fastener grade	**Stainless steel 304 / 316**
Steel finish (carport)	**Hot-dip galvanised**
Packing	**Customised, export-grade**
Lead time	**2 – 3 weeks (typical)**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped · **120+** countries · **TÜV · CE** certified

COMPATIBILITY

- Flat roofs
- Bitumen / gravel / green
- Concrete / metal
- Ballasted
- Penetration-free
- Framed modules

Mount it once. Trust it for 25 years.

Anodised-aluminium & stainless structures — 60 m/s wind, C5-M coastal-grade, 25-year service.

COTECH SOLAR — a vertically-integrated solar manufacturer since 2005, a Top-50 global brand.
20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

25-yr structural warranty
anodised AL · SS304 · ZAM steel

60 m/s wind-rated
TÜV · AS/NZS 1170.2

C5-M coastal-grade
salt-spray ≥ 1000 h

Pre-assembled
tool-light, fast install

25 yr warranty · **60 m/s** wind-rated · **C5-M** corrosion class · **TÜV · CE** certified

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MOUNTING SYSTEM

Metal Roof System

Non-penetrating rail system for standing-seam & trapezoidal metal roofs

60 m/s MAX WIND LOAD

25 yr STRUCTURAL WARRANTY

- **Non-penetrating** — standing-seam clamps
- **Leak-free** — no roof drilling
- **AL6005-T5 + SS304** — anodised, corrosion-proof
- **Certified** — TÜV · AS/NZS 1170

Zero-penetration mounting

- Seam clamps grip standing-seam roofs — no drilling, no leaks, no warranty void
- Trapezoidal mini-rail option for corrugated metal
- Fast clamp-on installation

Strong & corrosion-proof

- Anodised aluminium 6005-T5 + SS304 fasteners
- Wind-rated 60 m/s, snow 1.4 kN/m²
- 25-year structural service life

Universal & grounded

- Adjustable mid / end clamps fit all framed modules 30–40 mm
- Integrated grounding to UL 2703
- Pre-assembled for quick mounting

Key specifications

Material	**Anodised AL6005-T5 · SS304**
Roof type	**Standing-seam / trapezoidal**
Module orientation	**Portrait**
Module thickness	**30 – 40 mm**
Fixing	**Clamp-on (non-penetrating)**
Wind / snow load	**60 m/s · 1.4 kN/m²**
Service life	**25 years**
Warranty	**Up to 25 years**

LOAD & DURABILITY

Wind load		**60 m/s**
Snow load		**1.4 kN/m²**
Corrosion class		**C5-M**
Service life		**25 yr**

WHY COTECH

Engineered & load-certified
Project structural calculation provided on request

COMPATIBILITY

- Standing-seam roofs
- Trapezoidal metal
- Non-penetrating
- Framed modules
- Portrait layout
- Pre-assembled

APPLICATIONS

Residential · C & I · Utility · Off-grid

SYSTEM COMPONENTS

- Mounting rail
- Rail connector
- Seam / roof clamp
- Mid clamp
- End clamp
- Ground lug

MATERIALS & FINISH

Aluminium	**AL6005-T5 anodised ≥15 µm**
Steel finish	**ZAM / hot-dip galvanised**
Corrosion class	**C5-M (coastal option)**
Grounding	**Integrated · UL 2703**

CERTIFICATION & QUALIFICATION

TÜV · UL 2703 · CE · AS/NZS 1170.2 · ISO 9001 · SGS

Load ratings depend on site, layout & fixing. Specifications subject to change.

Non-Penetrating Metal Roof System — specifications

Specification	Data
Materials & structure	
Rail material	Anodised aluminium 6005-T5
Fasteners / clamp	Stainless steel 304
Roof clamp	Standing-seam / trapezoidal (non-penetrating)
Module orientation	Portrait
Module thickness	30 – 40 mm (framed)
Fixing	Clamp-on — no roof penetration
Load & compliance	
Max wind load	60 m/s (216 km/h)
Max snow load	1.4 kN/m²
Design pressure	up to 2.4 kPa
Corrosion class	C5-M coastal · salt-spray ≥ 1000 h
Service life	25 years
Standards	AS/NZS 1170.2 · TÜV · UL 2703 · CE
Warranty	Up to 25 years (structural)
System	
Components	Rail · connector · roof clamp · mid/end clamp · ground lug
System size	Customised per project

MECHANICAL & SYSTEM

Mechanical	Data
Surface finish	**Silver anodised / black**
Anodising thickness	**≥ 15 µm**
Fastener grade	**Stainless steel 304 / 316**
Steel finish (carport)	**Hot-dip galvanised**
Packing	**Customised, export-grade**
Lead time	**2 – 3 weeks (typical)**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped · **120+** countries · **TÜV · CE** certified

COMPATIBILITY

- Standing-seam roofs
- Trapezoidal metal
- Non-penetrating
- Framed modules
- Portrait layout
- Pre-assembled

Mount it once. Trust it for 25 years.

Anodised-aluminium & stainless structures — 60 m/s wind, C5-M coastal-grade, 25-year service.

COTECH SOLAR — a vertically-integrated solar manufacturer since 2005, a Top-50 global brand.
20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

- **25-yr structural warranty** — anodised AL · SS304 · ZAM steel
- **60 m/s wind-rated** — TÜV · AS/NZS 1170.2
- **C5-M coastal-grade** — salt-spray ≥ 1000 h
- **Pre-assembled** — tool-light, fast install

25 yr warranty · **60 m/s** wind-rated · **C5-M** corrosion class · **TÜV · CE** certified

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MOUNTING SYSTEM

Balcony Mount

Triangle adjustable-tilt mount for balconies, gardens, garages & open ground

0–90° ADJUSTABLE TILT

25 yr STRUCTURAL WARRANTY

- **0–90° tilt** — fully adjustable angle
- **Freestanding** — no roof drilling
- **AL6005-T5 + SS304** — anodised, corrosion-proof
- **Tool-light** — minutes to assemble

Anywhere, any angle

- Triangle bracket adjusts 0–90° for balconies, gardens, garages & flat ground
- Freestanding / clamp-on — no roof penetration
- Fits PV modules up to 1150 / 1180 mm

Light & durable

- Anodised aluminium 6005-T5 + SS304 hardware
- Weather-proof for permanent outdoor use
- 25-year service life

DIY-friendly

- Pre-drilled parts, self-tapping screws — assembles in minutes
- Ballast or bolt-down options
- Ideal for plug-in balcony solar

Key specifications

Material	**Anodised AL6005-T5 · SS304**
Tilt angle	**0 – 90° adjustable**
Module size	**Up to 1150 / 1180 mm**
Module type	**Framed**
Mounting	**Freestanding / bolt-down**
Wind load	**50 m/s**
Service life	**25 years**
Warranty	**Up to 25 years**

LOAD & DURABILITY

Wind load		**50 m/s**
Snow load		**1.4 kN/m²**
Corrosion		**C5-M**
Service life		**25 yr**

WHY COTECH

Engineered & load-certified
Project structural calculation provided on request

COMPATIBILITY

- Balconies
- Gardens / garages
- Open ground
- 0–90° tilt
- Framed modules
- Freestanding

APPLICATIONS

Residential · C & I · Utility · Off-grid

SYSTEM COMPONENTS

- Triangle leg
- Bottom beam
- Structure bolt
- Self-tapping screw
- Module clamp
- End cap

MATERIALS & FINISH

Aluminium	**AL6005-T5 anodised ≥15 µm**
Steel finish	**ZAM / hot-dip galvanised**
Corrosion class	**C5-M (coastal option)**
Grounding	**Integrated · UL 2703**

CERTIFICATION & QUALIFICATION

TÜV · UL 2703 · CE · AS/NZS 1170.2 · ISO 9001 · SGS

Load ratings depend on site, layout & fixing. Specifications subject to change.

Triangle Balcony Mounting System — specifications

Specification	Data
Materials & structure	
Material	Anodised aluminium 6005-T5 + SS304
Module type	Framed modules
Tilt angle	0 – 90° adjustable
Module size	Adjustable brackets up to 1150 / 1180 mm
Mounting	Freestanding / bolt-down
Load & compliance	
Max wind load	50 m/s
Max snow load	1.4 kN/m²
Design pressure	up to 2.4 kPa
Corrosion class	C5-M coastal · salt-spray ≥ 1000 h
Service life	25 years
Standards	AS/NZS 1170.2 · TÜV · UL 2703 · CE
Warranty	Up to 25 years (structural)
System	
Components	Triangle leg · bottom beam · structure bolt · self-tapping screw
Application	Balconies · gardens · garages · open ground

MECHANICAL & SYSTEM

Mechanical	Data
Surface finish	**Silver anodised / black**
Anodising thickness	**≥ 15 µm**
Fastener grade	**Stainless steel 304 / 316**
Steel finish (carport)	**Hot-dip galvanised**
Packing	**Customised, export-grade**
Lead time	**2 – 3 weeks (typical)**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped · **120+** countries · **TÜV · CE** certified

COMPATIBILITY

- Balconies
- Gardens / garages
- Open ground
- 0–90° tilt
- Framed modules
- Freestanding

Mount it once. Trust it for 25 years.

Anodised-aluminium & stainless structures — 60 m/s wind, C5-M coastal-grade, 25-year service.

COTECH SOLAR — a vertically-integrated solar manufacturer since 2005, a Top-50 global brand.
20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

- **25-yr structural warranty** — anodised AL · SS304 · ZAM steel
- **60 m/s wind-rated** — TÜV · AS/NZS 1170.2
- **C5-M coastal-grade** — salt-spray ≥ 1000 h
- **Pre-assembled** — tool-light, fast install

25 yr warranty · **50 m/s** wind-rated · **C5-M** corrosion class · **TÜV · CE** certified

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MOUNTING SYSTEM

Solar Carport

Steel & aluminium solar carport structures — single or double sided, customised spans

60 m/s MAX WIND LOAD

25 yr STRUCTURAL WARRANTY

Built for parking

- Single- or double-sided carport canopies sized to your parking layout
- Generous clearance for cars, vans & EV charging
- Integrated cable management & drainage

Heavy-duty structure

- Hot-dip galvanised Q235B steel or anodised aluminium 6005-T5
- Wind-rated 60 m/s, snow 1.4 kN/m²
- 25-year structural service life

Flexible & complete

- Landscape or portrait module layout, 0–15° tilt
- Customised columns, spans & foundations
- Turn-key structural design & calculation

- **Steel Q235B-HDG / AL** — hot-dip galvanised
- **Single / double-sided** — customised spans
- **Landscape / portrait** — any module layout
- **Certified** — TÜV · AS/NZS 1170

WHY COTECH

Engineered & load-certified
Project structural calculation provided on request

COMPATIBILITY

- Car parks
- Commercial / utility
- EV charging
- Single-sided
- Double-sided
- Customised

APPLICATIONS

Residential · C & I · Utility · Off-grid

Key specifications

Material	**Steel Q235B-HDG / AL6005-T5**
Layout	**Single / double-sided**
Module orientation	**Landscape / portrait**
Tilt angle	**0 – 15°**
Wind load	**Up to 60 m/s**
Snow load	**1.4 kN/m²**
Service life	**25 years**
Warranty	**Up to 25 years**

LOAD & DURABILITY

Wind load	**60 m/s**
Snow load	**1.4 kN/m²**
Corrosion class	**C5-M**
Service life	**25 yr**

SYSTEM COMPONENTS

- Column
- Main beam
- Purlin / rail
- Module clamp
- Gutter / drainage
- Base plate

MATERIALS & FINISH

Aluminium	**AL6005-T5 anodised ≥15 µm**
Steel finish	**ZAM / hot-dip galvanised**
Corrosion class	**C5-M (coastal option)**
Grounding	**Integrated · UL 2703**

CERTIFICATION & QUALIFICATION

TÜV · UL 2703 · CE · AS/NZS 1170.2 · ISO 9001 · SGS

Load ratings depend on site, layout & fixing. Specifications subject to change.

Solar Carport System — specifications

Model	CS-G13-1	CS-G13-3	CS-G13-4
Structure			
Layout	**Single-sided**	**Double-sided**	**Single-sided**
Material	**Steel Q235B-HDG**	**Steel Q235B-HDG**	**Aluminium 6005-T5 + SS304**
Finish	**Hot-dip galvanised**	**Hot-dip galvanised**	**Silver / black anodised**
Module orientation		Landscape / portrait	
Tilt angle		0 – 15°	
Load & compliance			
Max wind load		60 m/s (216 km/h)	
Max snow load		1.4 kN/m²	
Design pressure		up to 2.4 kPa	
Corrosion class		C5-M coastal · salt-spray ≥ 1000 h	
Service life		25 years	
Standards		AS/NZS 1170.2 · TÜV · UL 2703 · CE	
Warranty		Up to 25 years (structural)	
System			
Components		Column · main beam · purlin · clamp · gutter · base plate	
Foundation		Cast-in / anchor / ballast (per geotech)	
System size		Customised per project	

MECHANICAL & SYSTEM

Mechanical	Data
Surface finish	**Silver anodised / black**
Anodising thickness	**≥ 15 µm**
Fastener grade	**Stainless steel 304 / 316**
Steel finish (carport)	**Hot-dip galvanised**
Packing	**Customised, export-grade**
Lead time	**2 – 3 weeks (typical)**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped · **120+** countries · **TÜV · CE** certified

COMPATIBILITY

- Car parks
- Commercial / utility
- EV charging
- Single-sided
- Double-sided
- Customised

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20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

- **25-yr structural warranty** — anodised AL · SS304 · ZAM steel
- **60 m/s wind-rated** — TÜV · AS/NZS 1170.2
- **C5-M coastal-grade** — salt-spray ≥ 1000 h
- **Pre-assembled** — tool-light, fast install

25 yr warranty · **60 m/s** wind-rated · **C5-M** corrosion class · **TÜV · CE** certified

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MOUNTING SYSTEM

Ground Mounting System

Steel & aluminium ground-mount structures for C&I and utility PV — screw, pile or concrete foundations

0–60° TILT RANGE

60 m/s MAX WIND LOAD

- **Q235B HDG + AL** — hot-dip galvanised steel
- **Screw / pile / concrete** — foundation options
- **0–60° tilt** — site-optimised yield
- **Certified** — TÜV · AS/NZS 1170

Any soil, any site

- Foundation options: ground screw, concrete base, U-post or C / I / Π driven piles
- Single-pile terrace design adapts to slopes & uneven terrain
- Ground clearance 500 – 2000 mm for vegetation & drainage

Utility-grade structure

- Hot-dip galvanised Q235B steel + anodised AL6005-T5 rails
- Wind-rated 60 m/s, snow 1.6 kN/m² — engineered to AS/NZS 1170.2 / ASCE 7
- ZAM-coated steel option for C5-M coastal sites

Fast to build

- Pre-assembled components & repeatable pile grid — low labour cost
- Portrait or landscape, framed or frameless modules, 1P – 4L layouts
- Project structural calculation & layout drawings provided

Key specifications

Material	**Q235B HDG steel · AL6005-T5**
Foundation	**Screw / pile / concrete**
Tilt angle	**0 – 60°**
Ground clearance	**500 – 2000 mm**
Module layout	**Portrait / landscape**
Wind / snow load	**60 m/s · 1.6 kN/m²**
Service life	**25 years**
Warranty	**Up to 25 years**

LOAD & DURABILITY

Wind load	**60 m/s**
Snow load	**1.6 kN/m²**
Corrosion class	**C5-M option**
Service life	**25 yr**

WHY COTECH

Engineered & load-certified
Project structural calculation provided on request

COMPATIBILITY

- Utility plants
- C & I ground
- Farms / agrivoltaic
- Slopes & terraces
- Framed / frameless
- Custom layouts

APPLICATIONS

Residential · C & I · Utility · Off-grid

SYSTEM COMPONENTS

- Pile / ground screw
- Column & brace
- Main beam
- Purlin / rail
- Module clamp
- Grounding lug

MATERIALS & FINISH

Aluminium	**AL6005-T5 anodised ≥15 µm**
Steel finish	**ZAM / hot-dip galvanised**
Corrosion class	**C5-M (coastal option)**
Grounding	**Integrated · UL 2703**

CERTIFICATION & QUALIFICATION

TÜV · UL 2703 · CE · AS/NZS 1170.2 · ISO 9001 · SGS

Load ratings depend on site, layout & fixing. Specifications subject to change.

Ground Mounting System — specifications

Specification	Data
Materials & structure	
Structure material	Q235B / Q355 hot-dip galvanised steel
Rails & clamps	Anodised aluminium 6005-T5 + SS304
Foundation	Ground screw · concrete base · U-post · C / I / Π piles
Tilt angle	0 – 60° (fixed, site-optimised)
Ground clearance	500 – 2000 mm
Module layout	Portrait / landscape · framed or frameless
Load & compliance	
Max wind load	60 m/s (216 km/h)
Max snow load	1.6 kN/m²
Design pressure	up to 2.4 kPa
Corrosion class	C5-M coastal · salt-spray ≥ 1000 h
Service life	25 years
Standards	AS/NZS 1170.2 · TÜV · UL 2703 · CE
Warranty	Up to 25 years (structural)
System	
Components	Pile · column · beam · purlin · clamp · grounding lug
Terrain	Flat, sloped & terraced sites (single-pile option)
System size	Customised per project — MW-scale repeatable blocks

MECHANICAL & SYSTEM

Mechanical	Data
Surface finish	**Silver anodised / black**
Anodising thickness	**≥ 15 µm**
Fastener grade	**Stainless steel 304 / 316**
Steel finish (carport)	**Hot-dip galvanised**
Packing	**Customised, export-grade**
Lead time	**2 – 3 weeks (typical)**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped · **120+** countries · **TÜV · CE** certified

COMPATIBILITY

- Utility plants
- C & I ground
- Farms / agrivoltaic
- Slopes & terraces
- Framed / frameless
- Custom layouts

Mount it once. Trust it for 25 years.

Anodised-aluminium & stainless structures — 60 m/s wind, C5-M coastal-grade, 25-year service.

COTECH SOLAR — a vertically-integrated solar manufacturer since 2005, a Top-50 global brand.
20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

- **25-yr structural warranty** — anodised AL · SS304 · ZAM steel
- **60 m/s wind-rated** — TÜV · AS/NZS 1170.2
- **C5-M coastal-grade** — salt-spray ≥ 1000 h
- **Pre-assembled** — tool-light, fast install

25 yr warranty · **60 m/s** wind-rated · **C5-M** corrosion class · **TÜV · CE** certified

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MOUNTING SYSTEM

Single-Axis Tracker

Smart single-axis solar tracker — astronomical tracking + tilt sensors, more energy from the same land

±60° TRACKING RANGE

90 modules PER ROW UP TO

- **Astronomical + sensor** — smart tracking algorithm
- **Backtracking** — no row-to-row shading
- **Wind / snow stow** — auto protective position
- **LoRa / RS-485** — plant-level SCADA

More energy, same land

- Single-axis ±60° tracking typically yields 10 – 20% more energy than fixed tilt
- Astronomical algorithm + tilt sensors keep every row on the optimum angle
- Backtracking mode eliminates row-to-row morning / evening shading

Safe in weather

- Automatic wind & snow stow on anemometer / sensor trigger
- Designed to 47 m/s wind with slewing-drive self-locking
- Hot-dip galvanised & ZAM-coated steel structure

Smart & self-sufficient

- Slewing drive + 24 V DC motor, IP65 — consumes ≤ 0.1 kWh per day
- Self-powered (dedicated module) or external supply
- LoRa wireless or RS-485 Modbus to plant SCADA · row controller per tracker

Key specifications

Tracking type	**Horizontal single-axis**
Tracking range	**±60°**
Row capacity	**Up to 90 modules**
Drive	**Slewing drive · 24 V DC motor**
Control	**Astronomical + tilt sensor**
Communication	**LoRa / RS-485 Modbus**
Wind design	**47 m/s (stow protected)**
Warranty	**Up to 10 years (system)**

LOAD & DURABILITY

Tracking range	**±60°**
Wind design	**47 m/s**
Row capacity	**≤ 90 modules**
Self power use	**≤ 0.1 kWh/day**

WHY COTECH

Engineered & load-certified
Project structural calculation provided on request

COMPATIBILITY

- Utility plants
- Large C & I
- High-irradiance sites
- Bifacial modules
- 1P portrait
- SCADA-linked

APPLICATIONS

Residential · C & I · Utility · Off-grid

SYSTEM COMPONENTS

- Pile & bearing
- Torque tube
- Slewing drive + motor
- Row controller
- Wind sensor
- Module rail

MATERIALS & FINISH

Aluminium	**AL6005-T5 anodised ≥15 µm**
Steel finish	**ZAM / hot-dip galvanised**
Corrosion class	**C5-M (coastal option)**
Grounding	**Integrated · UL 2703**

CERTIFICATION & QUALIFICATION

TÜV · UL 2703 · CE · AS/NZS 1170.2 · ISO 9001 · SGS

Load ratings depend on site, layout & fixing. Specifications subject to change.

Single-Axis Tracking System — specifications

Specification	Data
Tracking & drive	
Tracker type	Horizontal single-axis, 1P portrait
Tracking range	±60°
Tracking algorithm	Astronomical + tilt-sensor closed loop
Backtracking	Yes — anti-shading
Drive device	Slewing drive · 24 V DC motor
Daily power use	≤ 0.1 kWh per tracker
Power supply	Self-powered (dedicated PV) or external
Control & safety	
Row capacity	Up to 90 modules per tracker row
Communication	LoRa wireless / RS-485 Modbus
Weather protection	Auto wind & snow stow
Wind design basis	47 m/s (ASCE 7-10)
Protection level	IP65 (drive & controller)
Structure & compliance	
Structure material	Hot-dip galvanised + ZAM-coated steel
Foundation	Driven pile / ground screw (per geotech)
Standards	ASCE 7-10 · AS/NZS 1170.2 · CE
Warranty	Up to 10 years (system) · 5 years (drive)

MECHANICAL & SYSTEM

Mechanical	Data
Surface finish	**Silver anodised / black**
Anodising thickness	**≥ 15 µm**
Fastener grade	**Stainless steel 304 / 316**
Steel finish (carport)	**Hot-dip galvanised**
Packing	**Customised, export-grade**
Lead time	**2 – 3 weeks (typical)**

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- **60 m/s wind-rated** — TÜV · AS/NZS 1170.2
- **C5-M coastal-grade** — salt-spray ≥ 1000 h
- **Pre-assembled** — tool-light, fast install

±60° tracking · **47 m/s** wind design · **IP65** drive & control · **10 yr** system warranty

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MOUNTING SYSTEM

Floating PV System

HDPE modular floating PV platform for lakes, reservoirs & ponds — walkable, anchored, UV-stable

155 kg/m² WALKWAY BEARING

5/10/15 ° MODULE TILT

Turn water into power

- Modular HDPE floats assemble into MW-scale arrays on lakes, reservoirs & ponds
- Water cooling raises module yield; coverage reduces evaporation & algae
- No land cost — ideal beside pumps, treatment plants & hydro dams

Walkable & safe

- Walkway floats rated 155 kg/m², module floats 70 kg/m² — safe O&M access
- Every panel reachable from the float grid; 300 mm water clearance
- Anchoring engineered per site: deadweight, pile or bank anchors

Marine-grade materials

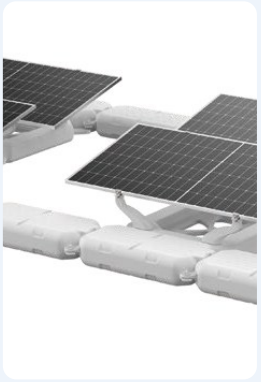
- UV-stabilised, food-grade HDPE — corrosion-free, fully recyclable
- Zinc-nickel & SS304 metalwork, AL6005-T5 module interfaces
- Wind-rated 42 m/s, snow 1.0 kN/m², 20-year design life

Key specifications

Float material	**HDPE, UV-stabilised**
Module tilt	**5° / 10° / 15°**
Layout	**Landscape, double-row**
Module floater bearing	**70 kg/m²**
Walkway bearing	**155 kg/m²**
Wind / snow load	**42 m/s · 1.0 kN/m²**
Water clearance	**300 mm**
Design life	**20 years**

LOAD & DURABILITY

Wind load		**42 m/s**
Walkway bearing		**155 kg/m²**
Module floater		**70 kg/m²**
Service life		**20 yr**



- **HDPE floats** — UV-stabilised, recyclable
- **Modular grid** — walkable O&M paths
- **5 / 10 / 15° tilt** — double-row landscape
- **Cooling effect** — higher module yield

WHY COTECH

Engineered & load-certified
Project structural calculation provided on request

COMPATIBILITY

- Reservoirs
- Irrigation ponds
- Treatment plants
- Quarry lakes
- Fish farms
- Hydro-hybrid

APPLICATIONS

Residential · C & I · Utility · Off-grid

SYSTEM COMPONENTS

- Module floater
- Walkway floater
- Connection pin
- Module interface
- Anchor kit
- Cable route

MATERIALS & FINISH

Aluminium	**AL6005-T5 anodised ≥15 µm**
Steel finish	**ZAM / hot-dip galvanised**
Corrosion class	**C5-M (coastal option)**
Grounding	**Integrated · UL 2703**

CERTIFICATION & QUALIFICATION

TÜV · UL 2703 · CE · AS/NZS 1170.2 · ISO 9001 · SGS

Load ratings depend on site, layout & fixing. Specifications subject to change.

Floating PV Mounting System — specifications

Specification	Data
Materials & structure	
Float material	HDPE — UV-stabilised, food-grade, recyclable
Metal parts	Zn-Ni alloy · SS304 · AL6005-T5
Module tilt	5° / 10° / 15°
Panel orientation	Landscape, double row
Water surface clearance	300 mm
Bearing capacity	Module floater 70 kg/m² · walkway 155 kg/m²
Load & compliance	
Max wind load	42 m/s
Max snow load	1.0 kN/m²
Design pressure	Per site wave / current study
UV / corrosion	UV-stabilised HDPE · corrosion-free
Service life	20 years (design)
Standards	EN 1991/1993 · ASCE 7-10 · CE
Warranty	Up to 10 years (floats)
System	
Components	Module floater · walkway floater · pins · anchor kit
Anchoring	Deadweight / pile / bank — engineered per site
System size	Modular — kW to MW-scale arrays

MECHANICAL & SYSTEM

Mechanical	Data
Surface finish	**Silver anodised / black**
Anodising thickness	**≥ 15 µm**
Fastener grade	**Stainless steel 304 / 316**
Steel finish (carport)	**Hot-dip galvanised**
Packing	**Customised, export-grade**
Lead time	**2 – 3 weeks (typical)**

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C5-M coastal-grade — salt-spray ≥ 1000 h
Pre-assembled — tool-light, fast install

20 yr design life · **42 m/s** wind-rated · **HDPE** UV-stabilised · **TÜV · CE** certified

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