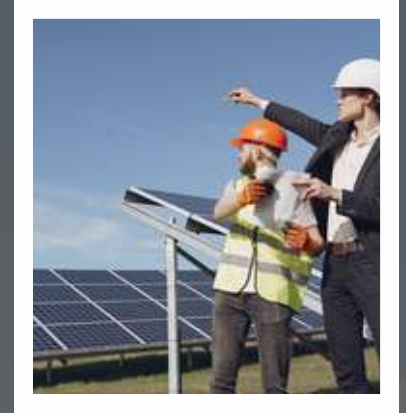


# ANCHORING SOLAR PANELS



INDO CONSTRUCTION FASTENING SYSTEMS

A brand of Indo Spark Group Since 1978



## Solar Anchoring Systems (SAS)

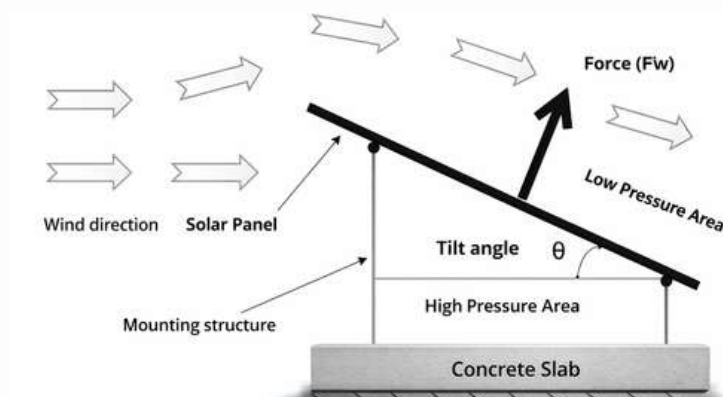
Strong • Safe • Reliable Fixing for Rooftop & Ground-Mounted Solar Systems

# Why Anchoring Is Critical in Solar Installations?

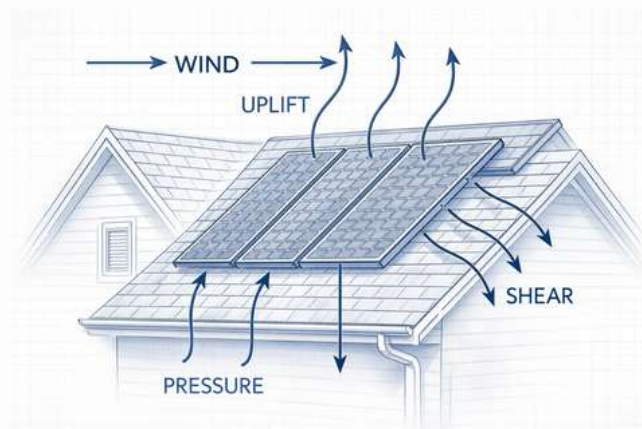
Strong anchoring is the foundation of a safe and long-lasting solar system.

- Protects solar panels against wind and vibration
- Keeps mounting structures firmly in place
- Prevents roof damage and water leakage

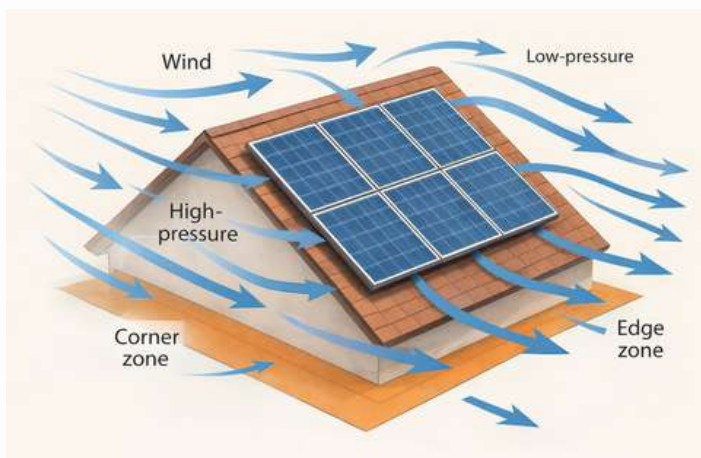
## Wind Load



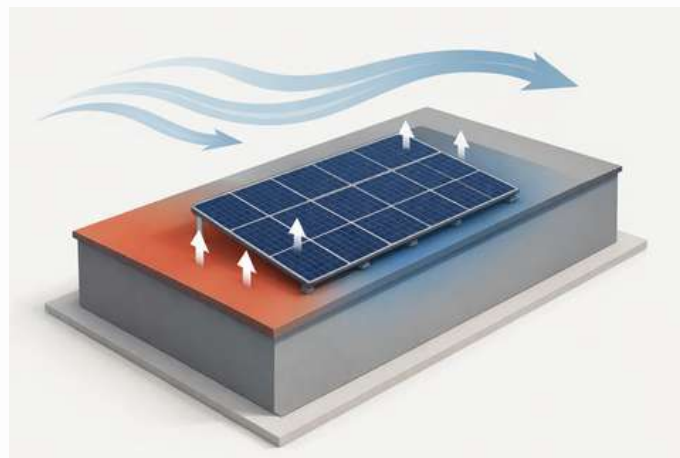
## Uplift Forces



## Seismic Safety



## Long-term durability (25+ years)



# Mechanical Anchors For Solar Application

## Application of TBA & IWA

### Features

- Ideal for rooftop solar mounting structures
- Fast and easy installation
- Immediate load application

### Advantages

- Quick installation saves time on site
- Strong grip ensures stable solar structures
- Ready for load immediately after fixing
- Suitable for outdoor and rooftop conditions

### Applications

- Solar mounting frames
- Rooftop support brackets
- Steel base plates and channels



IWA

TBA



### Approvals

- ETA according to EAD 16/0502 of 20/08/2016



# Chemical Anchors For Solar Application

## Application of **CM360SH** & **CM350VESF**

### Features

- Superior load capacity
- Suitable for cracked and non-cracked concrete
- Excellent performance under dynamic and wind loads

### Advantages

- No expansion pressure, protects concrete
- High strength for heavy solar panels
- Performs well in wind and vibration loads
- Suitable for close edge and spacing fixing

### Applications

- Solar panel base plates
- Structural steel connections
- Retro-fitting and heavy-duty anchoring



# Chemical Anchors For Solar Application

## Application of **CM585PE-PRO**

### Features

- Suitable for cracked and non-cracked concrete
- High-strength pure epoxy chemical
- Stress-free anchoring without expansion
- Excellent bonding with concrete and steel

### Advantages

- Prevents cracking of concrete roofs
- Ideal for heavy solar structures
- Performs well under wind and vibration loads
- Ensures long-term safety of solar installations

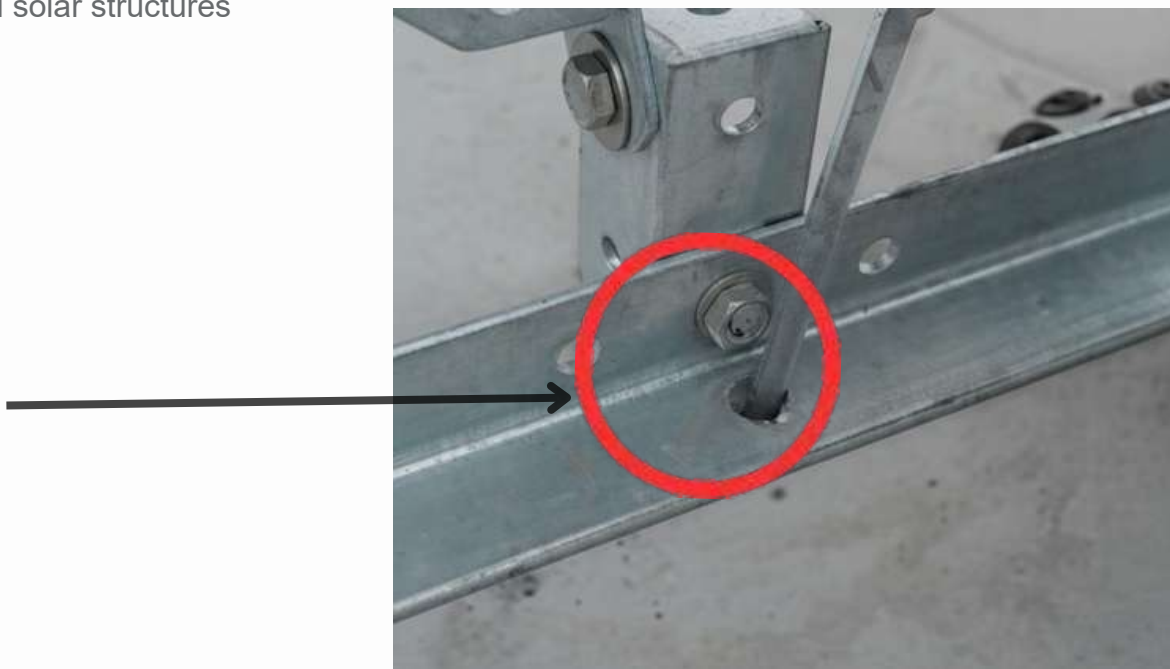


### Applications

- Fixing solar panel mounting structures
- Anchoring base plates and support frames
- Rooftop solar installations
- Ground-mounted solar structures



**CM585PE-PRO**



# Chemical Anchors For Solar Application

## Application of **Chemical Anchor Stud (CAS)**

### Features

- High-strength threaded stud Grade (5.8,8.8,SS304 & SS316)
- Designed for use with chemical anchors
- Excellent bonding with epoxy vinylester, seismic,hydrid resin

### Advantages

- Provides strong and reliable support for solar panels
- Ensures accurate and secure installation
- Works well under wind and vibration loads
- Long service life with minimal maintenance

### Applications

- Solar mounting structure fixing
- Base plate and bracket anchoring
- Rooftop and ground-mounted solar systems
- Solar carports and canopy structures



Over All Diameter Range (mm)	Over All Length Range (mm)
CAS 08 mm to 30 mm	100 mm to 1000 mm

# Our Solar Clientele



# Our Other Clientele



CHANNEL PARTNER



## INDO SPARK CONSTRUCTION SERVICES

### CORPORATE OFFICE

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Kolhapur - 416 122 (Mah.India)  
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