

Solar Module Roof Lifting and Mounting - JSA - C

en-US · Supervision, records, handover · v1.0 · 2026-10-14 · Sources: article section 9

Site: | Item ID: | Work area:

Approval	Work supervisor	Technical reviewer	Release / handover authority

1. Job details and team signatures

Date / time	Location / area			Assessor		Supervisor	
Team signatures							

2. Conditions and hold points

Stage	Time	Location / area	Environment / readings	Item / condition	Controls	Plant / tools	Approval / signature
HP-0 Start							
HP-1 Review roof and staging							
HP-2 Establish roof access							
HP-3 Lift land and restrain							
HP-4 Inspect and hand over							

Complete after actual checks. Recheck after changes, defects or shift handover.

3. JSA risk assessment

Job stage	Hazards and effects	Failure factors	Technical and procedural controls	Site verification	P	S	R	A
1. Temporary roof loads	1. Local collapse 2. Blocked egress 3. Unreviewed landing	1. Final array used as load proof 2. Bundle location changed 3. Crew loads omitted	1. Approve actual staging map 2. Review every relocation 3. Include people and equipment	1. Roof support and load basis 2. Bundle positions and limits 3. Protected routes and rescue				
2. Lifting conditions	1. Falling package 2. Wind-driven strike 3. Overhead contact	1. Packaging use unconfirmed 2. Weather limit unspecified 3. Route conflicts with utilities	1. Confirm package lift method 2. Set actual weather hold limits 3. Coordinate clear lift route	1. Mass center and rigging 2. Orientation and wind criteria 3. Exclusion and utility review				
3. Fall protection	1. Edge fall 2. Skylight fall 3. Failed rescue access	1. Solar work treated as roofing 2. Openings hidden by materials 3. Panel placement blocks route	1. Apply actual fall requirements 2. Protect fragile openings 3. Maintain access as layout fills	1. Fall-protection system 2. Opening and fragile-area map 3. Rescue access and briefing				
4. Mounting acceptance	1. Module release 2. Roof leakage 3. Frame damage	1. Clamp compatibility assumed 2. Seal detail improvised 3. Workers stand on modules	1. Verify component combination 2. Use approved roof details 3. Protect modules during handling	1. Clamp zones and tightening 2. Attachment and seal record 3. Glass and frame inspection				
5. Electrical boundary	1. Shock or DC arc 2. Damaged leads energized 3. Unqualified live work	1. AC off assumed safe 2. Cable damage hidden 3. Mechanical crew joins strings	1. Protect and identify DC leads 2. Quarantine damaged modules 3. Transfer to qualified electrical crew	1. Cable and connector condition 2. Isolation and work-scope limits 3. Electrical handover owner				
6. Release decision	1. Unaccepted system use 2. Open roof defect 3. Lost wind restraint	1. Mechanical signoff used as start 2. Roof defects not transferred 3. Remaining bundles forgotten	1. Separate acceptance stages 2. Transfer structural and seal holds 3. Account for temporary materials	1. Mounting and roof evidence 2. Electrical acceptance status 3. Remaining staging and restrictions				

P/S/R/A: Complete only after actual site assessment using the site risk method.

4. Pre-work checklist

☐ Roof support and load basis	☐ Mass center and rigging	☐ Fall-protection system
☐ Clamp zones and tightening	☐ Cable and connector condition	☐ Mounting and roof evidence
☐ Protected routes and rescue	☐ Glass and frame inspection	☐ Remaining staging and restrictions