

Rectangular Duct Section Assembly - 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 section and supports							
HP-2 Lift and align							
HP-3 Transfer load deliberately							
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. Assembly definition	1. Unbalanced lift 2. Wrong section installed 3. Unreviewed support demand	1. Lift scope unclear 2. Section labels lost 3. Assembly mass changed	1. Fix lifted configuration 2. Maintain section traceability 3. Confirm support design basis	1. Assembly IDs and mass 2. Center of gravity and lift plan 3. Accepted support layout				
2. Access coordination	1. Worker fall 2. Duct-platform collision 3. Falling-object injury	1. Platform use unreviewed 2. Clearance not checked 3. Other trades underneath	1. Approve suitable work access 2. Coordinate lift envelope 3. Control area below	1. Access and fall protection 2. Equipment separation 3. Exclusion and signal owner				
3. Joint quality	1. Hidden flange damage 2. Seal failure 3. Wrong hardware	1. Storage damage ignored 2. Sealant substituted 3. Fastener spec missing	1. Inspect delivered sections 2. Match actual joint system 3. Obtain installation requirements	1. Flange condition 2. Gasket and sealant identity 3. Hardware and sequence				
4. Load-transfer gate	1. Hanger pullout 2. Sudden sag 3. Worker used as support	1. Anchor acceptance absent 2. Transfer improvised 3. Flange bolts prove stability	1. Accept full permanent load path 2. Define observed transfer steps 3. Keep personnel outside fall zone	1. Anchor and hanger records 2. Transfer method and observer 3. Release authority				
5. Defect response	1. Progressive support loss 2. Concealed deformation 3. Unreviewed repair	1. Motion dismissed 2. Insulation starts early 3. Crew improvises bracket	1. Hold and secure through plan 2. Preserve exposed inspection 3. Assign technical disposition	1. Section and hanger location 2. Safe support arrangement 3. Repair and reinspection				
6. Handover boundary	1. Untested leakage 2. Unsafe system operation 3. Open hold forgotten	1. Seal appearance equals test 2. Assembly signoff misused 3. Records not linked	1. Separate acceptance stages 2. Record actual test status 3. Transfer unresolved restrictions	1. Support and joint evidence 2. Leak test and use status 3. As-built and receiving owner				

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

4. Pre-work checklist

☐ Assembly IDs and mass	☐ Access and fall protection	☐ Flange condition
☐ Anchor and hanger records	☐ Section and hanger location	☐ Support and joint evidence
☐ Accepted support layout	☐ Release authority	☐ As-built and receiving owner