Horizontal Rectangular Duct Hanger Inspection Guide

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Project	Location	Status

Date	Completed by

Inspection Documents

No.	Done	Check / Requirement	Result	Notes / Evidence
1	☐	Confirm applicable approved support details are available and cover the installed duct dimensions, rod diameter, trapeze configuration, hanger spacing, and anchorage.		

Missing or Conflicting Details

No.	Done	Check / Requirement	Result	Notes / Evidence
2	☐	Record missing or conflicting support requirements and refer them to the responsible designer for resolution before accepting the affected installation.		

Anchor Installation Instructions

No.	Done	Check / Requirement	Result	Notes / Evidence
3	☐	Confirm applicable manufacturer installation instructions are available for the installed anchors or structural clamps.		

Rod Diameter

No.	Done	Check / Requirement	Result	Notes / Evidence
4	☐	Measure hanger rod diameter using a method suitable for the rod type and compare its nominal size with the approved detail for the supported duct.		

Rod Condition

No.	Done	Check / Requirement	Result	Notes / Evidence
5	☐	Inspect rods for visible bending, damaged threads, or corrosion; record defects for disposition before acceptance.		

Trapeze Crossmember

No.	Done	Check / Requirement	Result	Notes / Evidence
6	☐	Verify crossmember material and section size match the approved trapeze detail.		

Trapeze Configuration

No.	Done	Check / Requirement	Result	Notes / Evidence
7	☐	Verify rod number, rod locations, and crossmember orientation match the approved trapeze arrangement.		

Duct Bearing

No.	Done	Check / Requirement	Result	Notes / Evidence
8	☐	Verify the duct bears on the trapeze as detailed, including any specified bearing pads or insulation protection, without visible local crushing or distortion.		

Rod Connection Hardware

No.	Done	Check / Requirement	Result	Notes / Evidence
9	☐	Verify nuts, washers, and locking provisions at rod connections match the approved details.		

Rod Thread Engagement

No.	Done	Check / Requirement	Result	Notes / Evidence
10	☐	Verify rod thread engagement at nuts, couplers, and threaded attachments against the applicable approved details or component manufacturer instructions.		

Hanger Spacing

No.	Done	Check / Requirement	Result	Notes / Evidence
11	☐	Measure center-to-center distances between consecutive hangers and compare them with the approved spacing for the installed duct.		

Special Support Locations

No.	Done	Check / Requirement	Result	Notes / Evidence
12	☐	Verify support locations at duct ends, changes in direction, branches, and inline equipment against applicable approved details.		

Anchorage Substrate

No.	Done	Check / Requirement	Result	Notes / Evidence
13	☐	Verify each hanger attaches to the structural member or substrate identified in the approved anchorage detail.		

Anchor or Clamp Selection

No.	Done	Check / Requirement	Result	Notes / Evidence
14	☐	Verify anchor or clamp type and size match the approved detail and are identified sufficiently to select the applicable manufacturer instructions.		

Anchorage Placement

No.	Done	Check / Requirement	Result	Notes / Evidence
15	☐	Measure accessible anchor locations, spacing, and edge distances, or clamp positions, as applicable; compare them with approved details and applicable manufacturer instructions.		

Visible Anchorage Condition

No.	Done	Check / Requirement	Result	Notes / Evidence
16	☐	Inspect accessible anchorage connections for missing hardware, visibly loose or displaced components, and cracking or other visible damage to the supporting substrate.		

Installation Evidence

No.	Done	Check / Requirement	Result	Notes / Evidence
17	☐	Review installation records or other accepted evidence for required attributes that cannot be verified visually, such as anchor embedment and installation torque where specified.		

Inspection Record

No.	Done	Check / Requirement	Result	Notes / Evidence
18	☐	Record each nonconforming or unverifiable hanger location, the applicable requirement, and the observed condition, with supporting measurements or photographs as appropriate.		

Deficiency Closeout

No.	Done	Check / Requirement	Result	Notes / Evidence
19	☐	Before accepting an affected installation, verify that documented deficiencies and unverifiable required attributes have been resolved through correction and reinspection or documented disposition by the responsible designer.		

Comments / Follow-up

Checklist guidance

A duct hanger inspection connects field observations to the approved support design. For horizontal rectangular ductwork, this means checking more than whether supports appear secure: rod size, trapeze arrangement, duct bearing, spacing, and anchorage must be verified against the applicable documents. This guide explains how to use the approved checklist without substituting generic dimensions or visual judgment for project-specific requirements.

1. Establish the inspection basis using applicable approved support details and anchor or clamp instructions. Refer missing or conflicting requirements to the responsible designer.

2. Use the approved checklist to guide field measurements and observations of rods, trapeze assemblies, duct bearing, connection hardware, spacing, and anchorage.

3. Review installation records or other accepted evidence for required attributes that cannot be verified visually.

4. Document nonconforming or unverifiable locations with the applicable requirement, observed condition, and supporting measurements or photographs as appropriate.

5. Verify correction and reinspection or documented designer disposition before accepting an affected installation.

Tick the box when complete. Record Not done or N/A in Result and note any follow-up.