

Structural Steel Alignment Checklist

General Information

Basic project details and referencing documents for alignment verification.

Project Name	
Write something	
Drawing Revision Number	
Enter a number	
Inspection Date	
Enter date	
Inspector's Name	
Write something	
Contractor	
Write something	

Weather Conditions	
☐ Clear ☐ Rain	
Cloudy	
Windy	
Snow	
Reference Documents (e.g., Shop Drawings, Field Drawings)	
Write something	
oundation/Base Plate Alignment	
erification of alignment between steel columns/beams and their supporting undations/base plates.	
Foundation Elevation Verification (mm)	
Enter a number	
Base Plate Levelness (mm)	
Enter a number	
Column to Dogo Dieto Offect (V. Avio) (mm)	
Column-to-Base Plate Offset (X-Axis) (mm)	
Enter a number	

necks related to column verticality, straightness, and alignment with grid lines.	Enter a number	
Minor Adjustment Required Significant Adjustment Required Observations/Comments on Base Plate Alignment Write something Photo Documentation of Base Plate Alignment Upload File Base Plate Surface Condition Clean & Smooth Minor Imperfections Significant Imperfections Significant Imperfections ecks related to column verticality, straightness, and alignment with grid lines.	Base Plate Anchor Bolt Location Verification	
Observations/Comments on Base Plate Alignment Write something Photo Documentation of Base Plate Alignment Description of Base Plate Alignment Descriptio	Correct Location	
Observations/Comments on Base Plate Alignment Write something Photo Documentation of Base Plate Alignment Description: Upload File Base Plate Surface Condition Clean & Smooth Minor Imperfections Significant Imperfections Column Alignment Decks related to column verticality, straightness, and alignment with grid lines.	Minor Adjustment Required	
Photo Documentation of Base Plate Alignment Upload File Base Plate Surface Condition Clean & Smooth Minor Imperfections Significant Imperfections Column Alignment Decks related to column verticality, straightness, and alignment with grid lines.	Significant Adjustment Required	
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Base Plate Surface Condition Clean & Smooth Minor Imperfections Significant Imperfections Column Alignment necks related to column verticality, straightness, and alignment with grid lines.	Write something	
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Column Alignment hecks related to column verticality, straightness, and alignment with grid lines.	Minor Imperfections	
hecks related to column verticality, straightness, and alignment with grid lines.	Significant Imperfections	
necks related to column verticality, straightness, and alignment with grid lines.	olumn Alianment	
Column Verticality (degrees from plumb)	ecks related to column verticality, straightness, and alignment with grid lines.	

Column Straightness (out-of-straightness, inches)
Enter a number
Column Position Relative to Grid Line (Left/Right/On)
Left
Right
On
Column Offset from Design Location (inches)
Enter a number
Column Alignment with Level Line (Above/Below/On)
Above
Below
On
Column Slope (inches per foot)
Enter a number
Notes on Column Alignment Deviations
Write something

Column Alignment Photo (before adjustment) 4 Upload File
Column Alignment Photo (after adjustment) Upload File
Beam Alignment Verification of beam levelness, straightness, and alignment with grid lines.
Beam Elevation Deviation (Max) Enter a number
Beam Levelness Deviation (along length) Enter a number
Beam Alignment with Grid Lines Within Tolerance Outside Tolerance NA (Not Applicable)
Details of any Alignment Issues Found Write something

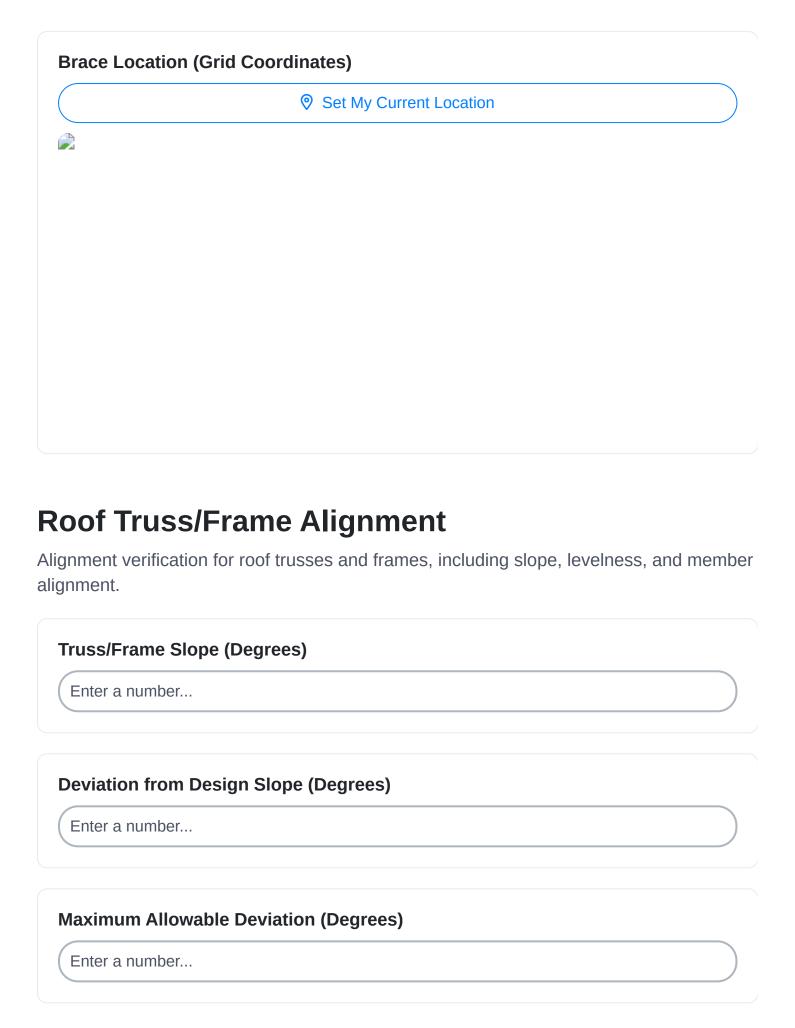
Beam Straightness Visual Inspection Straight Slightly Bowed
Significant Bow
Measured Beam Length
Enter a number
Design Beam Length
Enter a number
Beam Wobble/Movement during measurement None
☐ Slight ☐ Significant
Connection Alignment
Alignment checks specifically focusing on bolted and welded connections between structural members.
Bolt Hole Offset (Max)
Enter a number
Weld Length (Actual vs. Required)
Enter a number

Bolt Hole Alignment - Satisfactory? Yes No N/A
Weld Quality - Visual Inspection Acceptable Repair Required Reject
Detailed Notes on Connection Alignment Issues Write something
Connection Alignment Photos L Upload File
Connection Type Bolted Welded Other

Bracing Alignment

Checks for proper alignment and plumbness of bracing members (diagonal and horizontal).

Diagonal Brace Verticality (Degrees)
Enter a number
Horizontal Brace Levelness (Degrees)
Enter a number
Brace Connection Type
Bolted
Welded
Shop Welded
Field Welded
Connection Inspection Status
Visual Inspection Complete
Weld Inspection Complete
☐ Bolted Connection Tightened ☐ No Issues Found
Remarks/Observations Regarding Brace Alignment
Write something
Photographic Evidence of Brace Alignment
□ Upload File □ U



Levelness of Top Chord (Within Tolerance?) Yes No N/A
Chord Alignment Checks Completed? Gridline 1 Gridline 2 Gridline 3 All Gridlines
Notes/Observations Regarding Alignment Write something
Connection Bolt Tension Verified? Yes No N/A
Supporting Photos/Documentation Upload File

Girder & Main Beam Alignment

Alignment checks for large girders and main beams, ensuring proper levelness and position.

Girder/Beam Elevation Check (at North end)
Enter a number
Girder/Beam Elevation Check (at South end)
Enter a number
Girder/Beam Levelness Variance (max allowed)
Enter a number
Girder/Beam Alignment Method Used Laser Level Transit Level String Line Other
Detailed description of any corrections made (if applicable)
Write something
Girder/Beam Position Relative to Grid Line Within Tolerance Outside Tolerance - Correction Required

Specific Location of Girder/Beam being checked (e.g., Grid Coordinates) Set My Current Location

As-Built Verification & Documentation

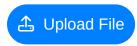
Ensuring alignment records reflect actual conditions and are appropriately documented.

Summary of Alignment Verification Activities

Alignment Photos (pre and post correction)

Write something...

Alignment Survey Data (PDF/CAD)



Enter a number	
Were any alignment discrepancies found?	
No	
Detailed Description of Discrepancies (if any)	
Write something	
Corrective Actions Taken for Discrepancies	
Write something	
Date of As-Built Verification	
Enter date	
Γime of As-Built Verification	
nspector Signature	
nspector Signature	