

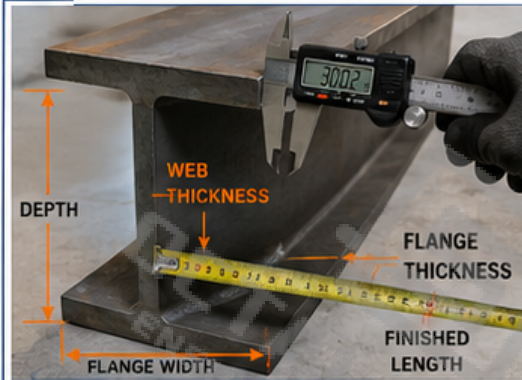
Structural Steel Beam Inspection and Release

1 Material Identification



Grade, heat or batch reference and piece mark

2 Section Dimensions



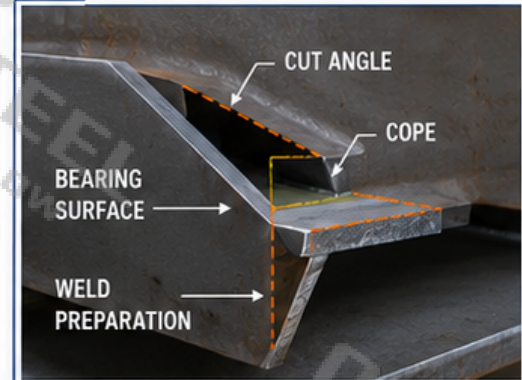
Depth, flange width, web and flange thickness, finished length

3 Straightness and Camber



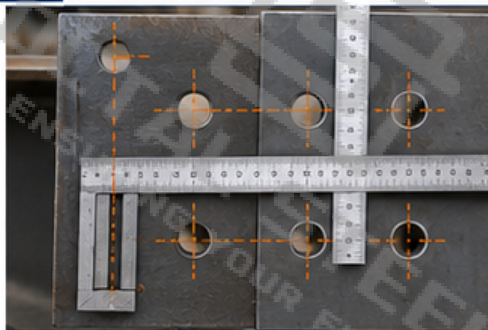
Sweep, twist and specified upward camber

4 End Geometry



Cut angle, cope, bearing surface and weld preparation

5 Hole Position



Diameter, spacing, edge distance and orientation

6 Attached Components



End plates, stiffeners, brackets and splice plates

7 Weld Condition



Weld profile, continuity and NDT where specified

8 Member Identification



Beam schedule, piece mark and packing reference



Release depends on correspondence with the final fabrication drawing, not nominal section size alone.

Surface Protection and Shipment Condition

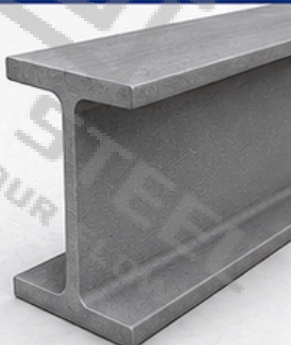
SURFACE CONDITION OPTIONS

1. MILL FINISH



- Untreated mill surface with mill scale

2. BLASTED SURFACE



- Uniform cleaned steel surface

3. SHOP-PRIMED



- Thin primer layer for temporary protection

4. GALVANIZED WHERE SPECIFIED



- Zinc-coated surface for corrosion resistance

SELECTION FACTORS



Atmospheric Exposure
Corrosivity category and expected environment



Moisture and Chemicals
Humidity, chemicals, salts and contaminants



Connection and Crevice Detailing
Design details that can trap moisture or debris



Maintenance Access
Inspection, cleaning and coating renewal capability



Project Design Life
Required service life and performance expectations



CAUTION

Coating or galvanizing does not correct poor drainage, water traps, inaccessible crevices or damaged site areas.

SHIPMENT CONDITION



PACKING LIST REFERENCE

Project : _____
Member : _____
Piece Mark Range : _____
Description : _____
Quantity : _____
Package No. : _____
Weight : _____
Remarks : _____

RELEASE CHAIN



1. SURFACE PREPARATION

Verify surface condition meets specification.



2. COATING INSPECTION WHERE APPLICABLE

Check DFT, coverage and coating quality.



3. PIECE-MARK CHECK

Verify piece marks, location and packing list reference.



4. PACKING PROTECTION

Confirm protective measures for transport and storage.



5. SHIPMENT RELEASE

Approve for shipment and delivery.



NOTE: Fire resistance requires an approved fire-protection system. Structural steel should not be described as inherently fireproof.