

ITEM 563.0001 02 – NORTHEAST EXTREME TEE – NEXT BEAM TYPE D
ITEM 563.0002 02 – NORTHEAST EXTREME TEE – NEXT BEAM TYPE F

DESCRIPTION

This work shall consist of furnishing and installing Northeast Extreme Tee - NEXT Beam in accordance with the contract documents and as directed by the Engineer.

MATERIALS

All materials shall conform to Standard Specification 563-2 Materials.

CONSTRUCTION DETAILS

The requirements of the PCCM and the following shall apply.

PRECASTING TOLERANCE

In accordance with the provisions of NYS PCCM Section **5.9 PLACING CONCRETE**, all forms, reinforcing and prestressing steel, etc. shall be inspected for compliance with the tolerances listed below:

- Length: ± 25 mm
- Width (overall): ± 6 mm
- Web Width: ± 6 mm
- Distance Between Webs: ± 6 mm
- Distance from Web to Edge of Top Flange: ± 6 mm
- Depth (overall): ± 6 mm
- Width (web): + 10 mm, - 6 mm
- Depth of Top Flange: + 6 mm, - 3 mm
- Location of Dowel Bars Extending from Unit: ± 6 mm
- Composite Bars (projection above top of the beam): + 6 mm, - 13 mm
- Reinforcement Cover: - 0, + 6 mm
- Position of Pretensioning Strands: ± 6 mm
- Location of Inserts: ± 13 mm
- Stirrup Bars (longitudinal spacing): ± 50 mm
- Stirrup Bars (longitudinal spacing - within a distance equal to the depth of the beam from the ends of the beam): ± 25 mm

- Bulkhead (deviation from square or designated skew):
 - Horizontal: ± 20 mm
 - Vertical: ± 20 mm
- Local Smoothness of Any Surface: 6 mm per 3.0 m
- Location of Handling Devices:
 - Parallel to Length of Member: ± 150 mm
 - Transverse to Length of Member: ± 25 mm

TOLERANCE CHECK AFTER DETENSIONING

All units shall be checked for compliance with the following tolerances within 24 hours after detensioning, except that shipping camber shall be checked within three days of shipping.

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- Sweep - (Horizontal misalignment of the outside surface, measured as a deviation from straight line parallel to the centerline of the unit):
 - ± 6 mm for lengths up to 12.2 m
 - ± 10 mm for lengths from 12.2 m to 18.3 m
 - ± 13 mm for lengths greater than 18.3 m
- Bearing Area (deviation from plane surface when tested with a straight edge through middle half of unit): ± 3 mm
- Camber Deviation from Release Camber on the Shop Drawings: ± 6 mm per 3.0 m, ± 20 mm maximum
- Camber Deviation from Shipping Camber on the Shop Drawings: ± 6 mm per 3.0 m, ± 20 mm maximum
- Differential Camber between Adjacent Units of the Same Design: 6 mm per 3.0 m, 20 mm maximum

METHOD OF MEASUREMENT

This work will be measured as the number of square meters of Northeast Extreme Tee - NEXT Beam satisfactorily furnished and installed.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, materials, diaphragms and equipment necessary to satisfactorily complete the work.

Damaged units which cannot be satisfactorily repaired or which do not meet dimensional and camber tolerances shall be replaced by the Contractor at no additional cost to the State.