WORLD TRADE CENTER
FLOOR GRID TRUSSES
BASIC DESIGN DATA

Based on double truss units. Mark 2CT__ or 2ST__.
Single truss components. Mark CT__ or ST__.

DIMENSIONS:

Unless specifically noted otherwise, see "ST" Details.

Truss clearspan in feet = L. Overall length of truss minus end bearings in feet (2 x 5" = 10"). Example: 59'9" overall length. Clearspan L = 59'9" minus 10" or 58'11" or 58.92'.

Length of member, clear of attachments = "ℓ"

Depth of Truss

Composite type "C" (Measured top of shear member to bottom of lower chord.)

Standard type "S" (Measured out to out of chord members.)

Total depth of composite section = "D_t"

TOLERANCES:

Overall length 1/4"+ or 1/4"-.

Depth 1/8"+ or 1/8"-.

LOADS:

Total load = Live load + Dead load

Applicable for composite design.

Applicable for combined slat and top chord design and bottom chord design.

Construction load = Applicable lead load

Applicable for top and bottom chord steel design.

Dead load = Actual weight of structural system in pounds per square foot.

Live load = Assigned live load for panel area in pounds per square foot.

Design load in pounds per square foot = "w"