

CALCULATED WHEEL LOADS - 4.90' average wheel spacing

OPERATING

Factored based on ACI 318-02

LS = 31 k/ft

WS = 31 k/ft

Unfactored (Service)

LS = 27 k/ft

WS = 29 k/ft

STORM

Based on:

1. ASCE 7-02: 110 mph, 3-s gust basic wind speed at 33', exposure C, Importance factor 1.0
2. original crane raise of 2.00 m (final crane raise = 2.63 m)
3. boom raised into latches on apex beam

Factored based on ACI 318-02

LS = 55 k/ft

WS = 39 k/ft

Unfactored (Service)

LS = 40 k/ft

WS = 27 k/ft

The storm wind design loading and calculated wheel loads will probably differ for a location different than Portsmouth.