

Load Analysis Calculation Notes



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Point Definitions - Ceiling Suspended Backstops

- A:** The force at the diagonal brace - in folded and playing position.
- RB:** The reaction force on the eyebolts at the main mast in the folded position. Note, a negative force (-) indicates compression.
- B:** The force at eyebolts in the playing position.
- RC:** The reaction force on the cable at the 500-B electric hoist or B-139 pulley at the backstop in the folded position. (Note, the "g" dimension is from the bottom of the frame to the point where the cable attaches to the main mast.)
Note, Model 500-B single electric hoists weight 100 lbs.
- D:** The point load weight of the main mast wing downs.
- E:** The point load weight resulting from % of the weight of the diagonal brace + % of the weight the roller guide (Model 1350-FF only).
- F:** The weight of the 6" tubing on the main mast - from the top of the frame to point "C".
- G:** The point load weight resulting from the weight of the backboard + the weight of the (2) + backboard extensions (or 120 ABH assembly) + % of the tubing + % of the weight the roller guide (Model 1350-FF only).
- H:** The point load weight of top 2" x 3" tubing.

Project Name:	
Project Location:	
Dealer:	
IPI Job Number:	

Approved by:

All forces shown are based on the truss height and backboard listed on each sheet.
No design factor taken into consideration in any forces or weights shown.
Superstructure weight not taken into consideration.

All forces are based on the shop drawing dimensions.