



**GAYLORD ENTERTAINMENT CENTER
REHEARSAL HALL RIGGING GUIDELINES**



1. The overall rigging load for a rehearsal stage configuration shall not exceed **120,000 lbs.**
2. The maximum total load distributed to each truss shall be limited as follows:

<u>TRUSS MARK</u>	<u>MAXIMUM LOAD</u>
TA-3	40,000 lbs.
TA-4	80,000 lbs.
TA-5	40,000 lbs.

3. The symbol  indicates the intersection of rigging beams with the tension tie member of the truss, shown on drawing **RR-1**. The **TOTAL VERTICAL LOAD** at these points shall not exceed **3000 lbs.**

The symbol  indicates the intersection of rigging beams with the roof trusses at the truss panel points, shown on drawing **RR-1**. The **TOTAL VERTICAL LOAD** at these points shall not exceed **10000 lbs.**

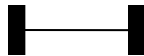
TOTAL VERTICAL LOAD refers to the sum of all rigging loads supported directly at the intersection location being considered. This is to include the rigging load induced reaction of all rigging beams framing to this location in addition to any rigging loads directly supported at the same intersection location.

4. Rigging bridals may be attached to the existing rigging beams that are painted and marked as indicated on the rigging schedule or to the truss chords at points marked thus , or  as indicated on drawing **RR-1**. Under no circumstances shall rigging be suspended from any members painted **BLACK** or indicated by **DASHED LINES** on drawing **RR-1** without written approval from Thornton-Tomasetti Engineers.
5. Rigging loads can be assumed to act directly at the intersection point, described above, if the load is applied within **SIX INCHES** of the truss bottom chord flange. All other loads shall be considered to be acting on the rigging beam itself.
6. The maximum allowable loads on individual rigging beams shall be determined from the **RIGGING BEAM SCHEDULE**. The values given in the rigging beam schedule are for loads applied more than six inches from the end of the rigging beam under consideration. Loads applied less than six inches from the member end may be considered to act directly at the intersection point.

7. The top or bottom flange of any beam that can support rigging is painted white, red, or blue and is marked thus (▲, ◆ or *) on RR-1 drawing.

<u>RIGGING BEAM SUPPORT CONDITION AND SIZE</u>	<u>COLOR CODE</u>	<u>BEAMMARK</u>
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PANEL POINT TO PANEL POINT

 W24 AND W14	WHITE	▲
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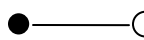
PANEL POINT TO PANEL POINT

 TA TRUSS MEMBER	RED	◆
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RIGGING BEAMS BETWEEN W24 GIRDERS

 W14 MEMBERS	RED	◆
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RIGGING BEAM TO TRUSS CHORD BETWEEN PANEL POINTS

 TS MEMBERS	BLUE	*
--	------	---

RIGGING BEAM TO RIGGING BEAM

 TS MEMBERS	BLUE	*
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8. Any Rigging beams painted **BLACK** and/or any members indicated by **DASHED LINES** on drawing RR-1 **MAY NOT BE USED** to support any rigging loads without written approval from Thornton-Tomasetti.

MAXIMUM ALLOWABLE RIGGING BEAM LOAD SCHEDULE

H/V	BEAM COLOR CODE								
	WHITE ▲			BLUE *			RED ♦		
	T _{max} (lbs.)	V _{max} (lbs.)	H _{max} (lbs.)	T _{max} (lbs.)	V _{max} (lbs.)	H _{max} (lbs.)	T _{max} (lbs.)	V _{max} (lbs.)	H _{max} (lbs.)
0	15000	15000	0	5000	5000	0	12000	12000	0
1/5	15000	14710	2940	5000	4900	980	12000	11760	2350
2/5	15000	13930	5570	4750	4410	1760	11000	10210	4080
3/5	15000	12870	7710	4500	3860	2320	8000	6860	4120

NOTES:

1. H/V is the slope of the rigging bridle with respect to the rigging beam centerline. H is the horizontal distance from the beam centerline to the suspended load and V is the vertical drop of the suspended load from the beam centerline.
2. T_{max} is the **TOTAL** maximum applied tension force in the rigging bridle for the given bridle slope. V_{max} is the vertical component of T_{max}. H_{max} is the horizontal component of T_{max}.
3. The **MAXIMUM SINGLE CONCENTRATED RIGGING LOAD** on the rigging beams shall **NOT EXCEED 3000** pounds and the **DISTANCE** between any two adjacent rigging loads on a rigging beam shall be at least **5 FEET**.
4. For rigging beams which carry multiple rigging loads, the following equation shall be satisfied:

$$\sum \frac{f_H}{H_{max}} + \sum \frac{f_V}{V_{max}} \leq 1.0$$

where f_H is the applied horizontal load to the rigging beam, f_V is the applied vertical load to the rigging beam and H_{max} and V_{max} are obtained from appropriate columns in the rigging beam schedule. The loads shall include the rigging load induced reaction of all the rigging beams framing into the beam into consideration.