

DQ:



BROOKHAVEN NATIONAL LABORATORY  
Regional Model Bridge Building Contest

## 2025 Model Bridge Inspection Report

<b>School Name</b>		<b>Mass</b>	
<b>Student Name</b>		<b>Load at Failure*</b>	
<b>Bridge Number</b>		<b>Efficiency</b>	

\*If load > 50 kg, 50 kg will be used in the efficiency calculation

LOC	ITEM	CRITERIA	Q	DQ
1	Materials	Only 3/32-inch (2.4 mm) square basswood and any commonly available adhesive, with no stain/paint/coating		
2a	Mass	Max 25.00 grams		
2b	Length ( <b>L</b> )	Max 400. mm		
2b	Height ( <b>H</b> )	Max 100. mm		
2b	Width ( <b>W</b> )	Max 80. mm		
2b	Span ( <b>S</b> )	Min 300. mm		
2c	Arch	Starts below the support surface, making contact with the vertical faces, and extends 10 mm or more above the support surface in the center of the span.		
2c	Tie Beams	Tie beams or tension members connecting the arch ends along the span are not below the support surfaces.		
2b	Lower Extension	Max 10. mm extension below the support surface		
2d	Load Plane Height ( <b>P</b> )	10. mm $\leq$ <b>P</b> $\leq$ 100. mm above the support surface		
2e	Loading Points	20. mm and 40. mm on either side of center in the same horizontal plane		
6a	Load Application Vertical Clearance	Loading plate and rod clearance at all load points from above and below		
2f	Symmetry	Bridge is symmetrical longitudinally and transversely (visual)		

### FOR REFERENCE ONLY

This sheet does not replace the official rules and regulations, which can be found at [www.bnl.gov/bridgebuilding](http://www.bnl.gov/bridgebuilding)