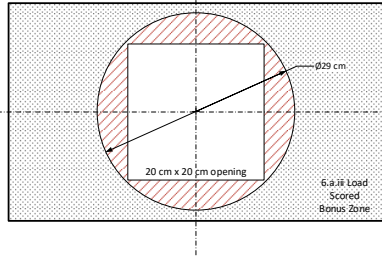


SPAN: THE TOWER SPANS THE OPENING IF IT CAN BE POSITIONED SO THAT IT SUPPORTS THE LOAD WITHIN 25 mm OF THE CENTER OF THE OPENING WITHOUT FALLING THROUGH THE OPENING. THE TOWER MAY BE SUPPORTED ON TWO, THREE, OR FOUR SIDES OF THE OPENING. **TOWERS THAT CAN SPAN MORE THAN THE 29 CM CIRCLE AND HOLD 15.0 KG WILL BE AWARDED A BONUS.**

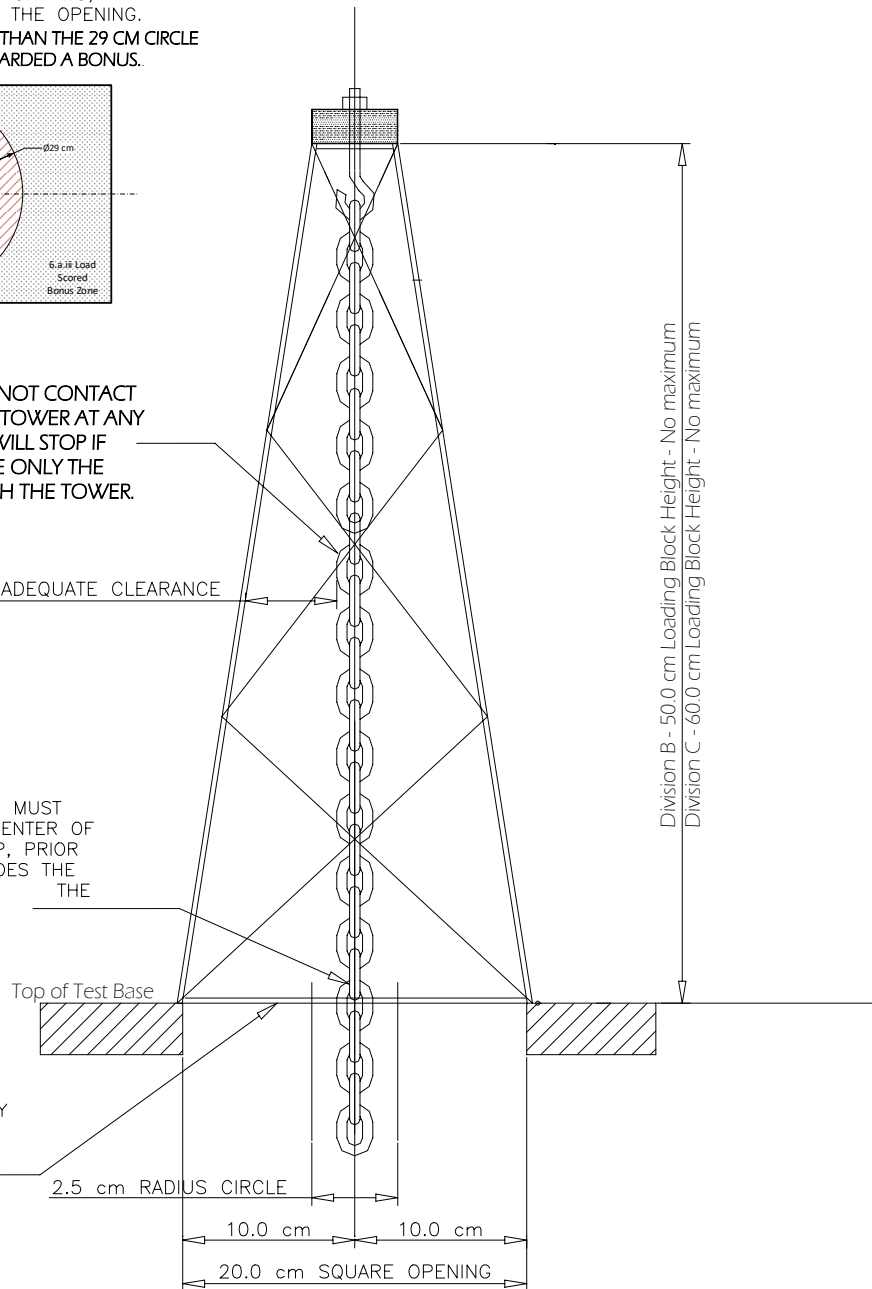


THE CHAIN MUST NOT CONTACT ANY PART OF THE TOWER AT ANY POINT. LOADING WILL STOP IF CONTACT IS MADE ONLY THE BLOCK MAT TOUCH THE TOWER.

ALLOW ADEQUATE CLEARANCE

THE CHAIN MUST BE WITHIN 2.5 cm OF CENTER OF OPENING DURING SET UP, PRIOR TO TESTING. THIS INCLUDES THE THICKNESS OF THE LINKS OF THE CHAIN.

NO PART OF TOWER MAY EXTEND BELOW THE TOP OF THE TEST SUPPORTS BEFORE LOADING



SIDE VIEW

SCORING:

- High score wins. Score = [Load Score (g)]/Mass of Structure (g)] * Design Log Multiplier.
- The Load Score= Load Supported (5.b.ix) + Load Scored Bonus (7.c).
- Load Scored Bonus: Structures that ONLY contact the Test Base outside the 29 cm circle and hold 15.0 kg will earn a Bonus of 5,000 g.
- Design Log Multiplier(OPTIONAL)
 - Division B: Log is not scored, multiplier is 1.0
 - Division C : Log is Compliant: 1.25; No log, Incomplete log or non-compliant log: 1.0.
- Structures will be placed in three tiers as follows:
 - Tier 1: Holding any load and meeting all construction parameters and competition requirements
 - Tier 2: Holding any load with any violations of the construction parameters and/or competition requirements
 - Tier 3: Unable to be loaded for any reason (e.g., cannot hold Loading Assembly, failure to wear eye protection)
- Ties are broken as follows:
 - Estimated Load Supported closest to, without exceeding, the actual Load Supported
 - Lowest Structure mass

Science Olympiad
Towers - 2024

based on DRAFT 3 rules dated
6/20/2023 GAM_v3