# 🕍 Diagrams

## **Construction Site Test Rig**

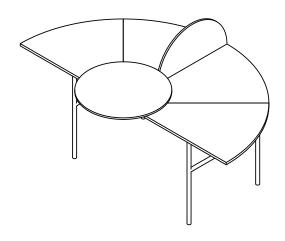


Figure 1: Isometric view of Construction Site Test Rig

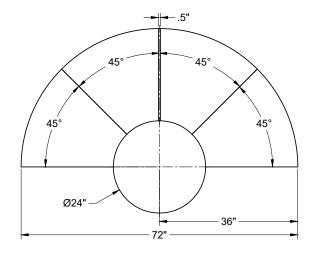


Figure 2: Aerial view of Test Rig

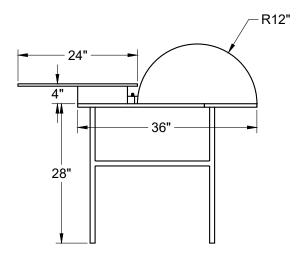


Figure 3: Side view of Test Rig

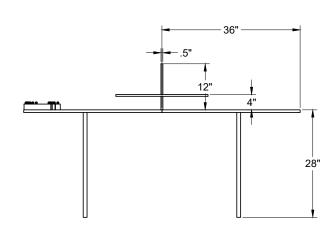


Figure 4: Alternate side view of test rig of Test Rig



# **Housing Module**

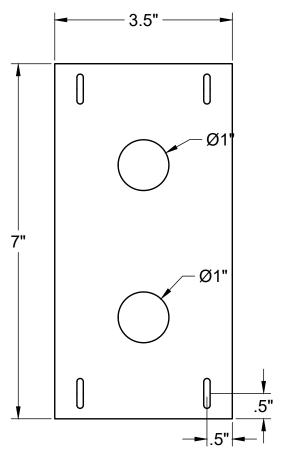


Figure 5: Aerial view of Housing Module

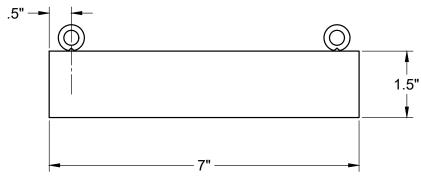


Figure 6: Side view of Housing Module

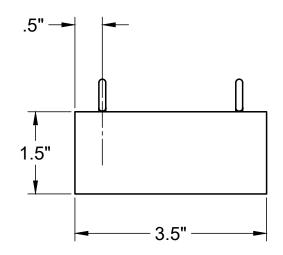


Figure 7: Alternate side view of Housing Module



#### **Screw Eyes**

• #10 Everbilt Screw Eyes

Figure 8: Photo of Screw Eyes Holes for eye-screws are pre-drilled to prevent wood from splitting

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### **Targets**

#### **Large Target Dimensions**

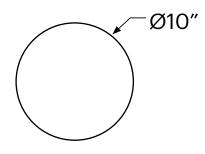


Figure 9: Measurements of Large Target

#### **Small Target Dimensions**

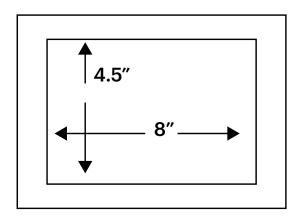


Figure 10: Measurements of Small Target

#### **Stack Target Dimensions**

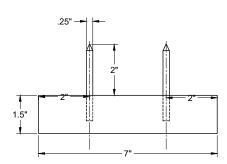


Figure 11: Side view of Stack Target

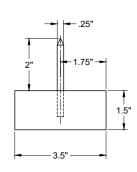


Figure 12: Side view of Stack target

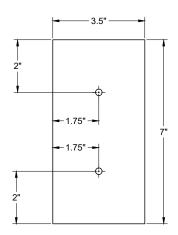


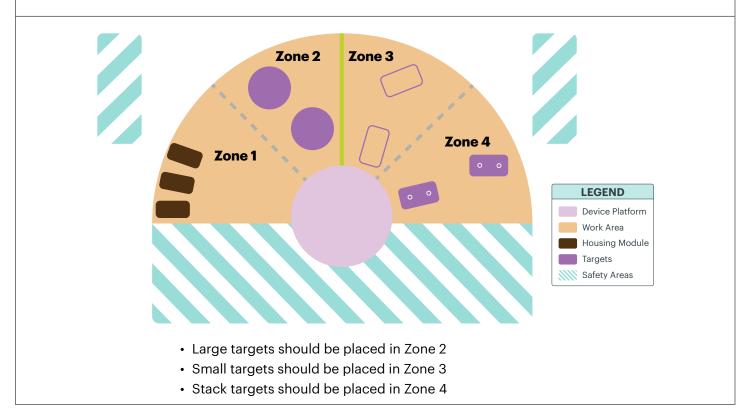
Figure 13: Aerial view of StackTarget

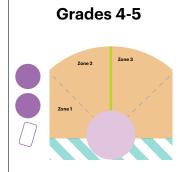


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#### **Transfer Goals**

- The three housing modules must begin in their designated start positions in Zone 1.
- Teams can place the three targets anywhere they like within the zones for their grade.
- The transfers can be completed in any order.

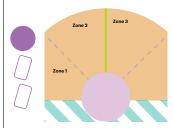




Step 1: Place two large targets in Zone 2 and one small target in Zone 3.

Step 2: Move the three housing modules in Zone 1 onto the targets.

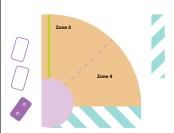
#### Grades 6



Step 1: Place one large targets in Zone 2 and two small target in Zone 3.

Step 2: Move the three housing modules in Zone 1 onto the targets.

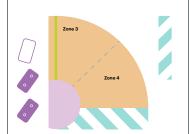
#### Grades 7-8



Step 1: Place two small targets in Zone 3 and one stack target in Zone 4.

Step 2: Move the three housing modules in Zone 1 onto the targets.

#### Grades 9-12



Step 1: Place one small target in Zone 3 and two stack targets in Zone 4.

Step 2: Move the three housing modules in Zone 1 onto the targets.

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### **Home Testing**



#### Note:

Examples of home testing will be added to this document and the website after Nov 15. If you want support building your own home test rig sign up for one of our Team and Adviser Challenge <u>Kick-off Events.</u>

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