

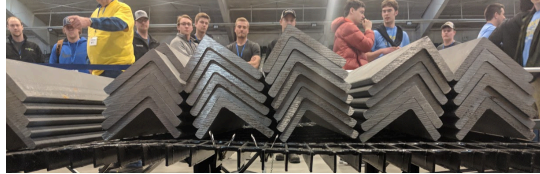
SSBC Inventory Photo Guide (2025)

Inventory Item Name / Item # /
Quantity per Station

Photo

Notes

Loading Angle (L4x3x1/2,
27" long, 25 lb each,
painted gray)



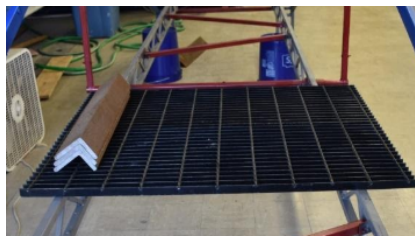
(3) Per Lateral Loading Station
(100) Per Vertical Station

Jack Stand



(8) Per Vertical Loading Station

Steel Grating - No Tabs




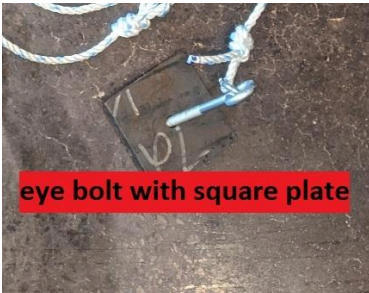
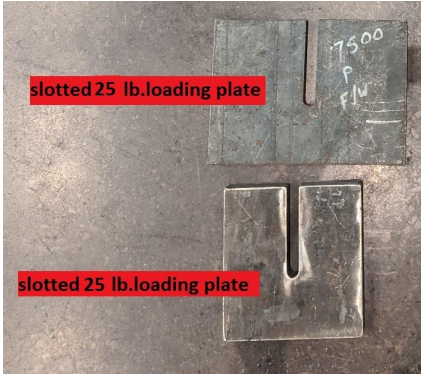

(1) Per Lateral Loading Station




Steel Grating - Tabs

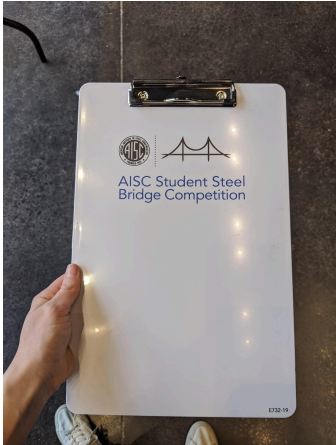







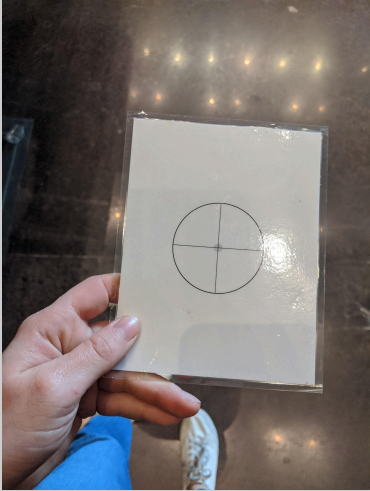
(2) Per Vertical Loading Station

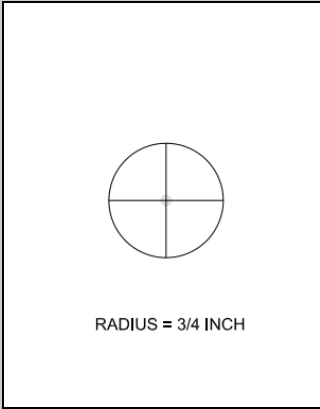



Inventory Item Name / Item # / Quantity per Station	Photo	Notes
<p>Steel Bearing Plate (24"x 24" x ¼" thick)</p> <p>(4) Per Vertical Loading Station</p>		
<p>Lateral Load Stand</p> <p>(1) Per Lateral Loading Station</p>		
<p>Lanyard (Lateral Load Stand Accessory)</p> <p>(1) Per Lateral Loading Station</p>		
<p>Carabiner (Lateral Load Stand Accessory)</p> <p>(1) Per Lateral Loading Station</p>		



Inventory Item Name / Item # / Quantity per Station	Photo	Notes
<div>Dog Collar (Lateral Load Stand Accessory)</div> <div>(1) Per Lateral Loading Station</div>		
<div>Eye Bolt with Square Plate (Lateral Load Stand Accessory)</div> <div>(1) Per Lateral Loading Station</div>		
<div>Slotted 25 lb. Loading Plate</div> <div>(2) Per Lateral Loading Station</div>		The (2) plates per station should be different sizes.
<div>Wood Box - Member Check</div> <div>(1) Per Construction Station</div>		This item must be stored in a dry and temperature controlled area

Inventory Item Name / Item # / Quantity per Station	Photo	Notes
<div>Level (4')</div> <div>(1) Per Construction Station</div>		
<div>Vertical Deflection Measurement Device</div> <div>(2) Per Vertical Loading Station (1) Extra/Other</div>		
<div>Scale</div> <div>(4) Per Weighing Station (1) Extra / Other</div>		

Inventory Item Name / Item # / Quantity per Station	Photo	Notes
<div>Clipboard</div> <div>(5) Per Construction Station (1) Per Lateral Loading Station (1) Per Vertical Loading Station (1) Per Weighing Station</div>		
<div>Tape Measure (25')</div> <div>(2) Per Construction Station (1) Per Lateral Loading Station (1) Per Vertical Loading Station</div>		
<div>Flashlight</div> <div>(1) Per Construction Station</div>		
<div>Stopwatch</div> <div>(2) Per Construction Station</div>		

Inventory Item Name / Item # / Quantity per Station	Photo	Notes
<p>Laser Plumb-Bob</p> <p>(1) Per Lateral Loading Station (2) Per Vertical Loading Station</p>		
<p>Steel Bars - (1) 1/8" x1" x3" and (1) 1/4" x1" x3"</p> <p>(1) Per Construction Station</p>		
<p>1" Radius Sway Target</p> <p>(4) Per Lateral Loading Station (4) Per Vertical Loading Station</p>		<p>Not needed for 2025.</p>

Inventory Item Name / Item # / Quantity per Station	Photo	Notes
<div>3/4" Radius Sway Target</div> <div>(4) Per Lateral Loading Station (4) Per Vertical Loading Station</div>		Not needed for 2025.
<div>Magnet</div> <div>(1) Per Construction Station</div>		
<div>C-Clamp</div> <div>(2) Per Vertical Loading Station</div>		
<div>Hard Hat</div> <div>(2) Per Vertical Loading Station</div>		<div>*Shown for demonstration purposes only and may not reflect the actual brand/model.</div>

Inventory Item Name / Item # / Quantity per Station	Photo	Notes
<div>Safety Glasses</div> <div>(2) Per Vertical Loading Station</div>		<p>*Shown for demonstration purposes only and may not reflect the actual brand/model.</p>
<div>Toe Covers</div> <div>(9) Per Vertical Loading Station</div>		<p>A variety of sizes are available to volunteers (2 XS, 2 S, 4 M, 4 L, 4 XL, 2 XXL per loading station)</p> <p>For Virginias and Carolinas: 1 XS, 1 S, 2 M, 2 L, 2 XL, 1 XXL</p> <p>Coloring typically varies by size.</p> <p>*Shown for demonstration purposes only and may not reflect the actual brand/model.</p>

Inventory Item Name / Item # / Quantity per Station	Photo	Notes
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Instruction Guide for
Vertical Deflection Device

(1) Guide

Vertical Deflection Measurement Device Instructions

Preparation for Competition

1. The scoring spreadsheet should round deflection values to ± 0.05 inch.
2. Check that the screws on the jaws are tight.
3. Replace the battery with a new 357 button cell. The installed battery runs down during storage, and if it fails during operation, the deflection measurement is lost. The battery is under a sliding cover located just below the display. Be careful not to lose or damage the cover.
4. Have extra 357 button cells available.
5. Assure smooth operation. With the gage on a firm surface, the top jaw should slide up without the base lifting and should slide down with only gravitational force. Values should display when the upper jaw is moved. If the action is not smooth, pull the upper jaw to full extension and clean the groove in the sliding part and the depth probe protruding from the bottom of the caliper. Liquid cleaner and liquid lubricant are not recommended.



Operation

1. Set the display unit to decimal inches.
2. Place the gage under the bridge.
3. The bar weights attached to the chain and upper jaw should be vertical.
4. Place the steel protective sleeve over the gage with the display showing.
5. Press the 'zero' button.
6. Pull the chain to open the caliper so that it can measure the maximum deflection allowed by competition rules plus a minimum of 0.5 inches.
7. Use the provided hook to connect the chain to the decking at the location specified by competition rules.
8. Move the gage and sleeve so that the chain is vertical. It should not have kinks.
9. Initial values should be recorded rather than using the 'zero' button, which is very sensitive.
10. If there is no deflection for several minutes, the display will sleep. However, the last value displayed is retained and the display will wake when deflection resumes. NOTE: The display may be awakened by lightly tapping the chain.
11. If the upper jaw does not slide smoothly (see item 5 above in "Preparation..."), push it down before reading each measurement, using no more force than necessary.

www.aisc.org/ssbc Deflection Gage Instructions (Revised 12.26.19) 3-16

-If this item is damaged or not found in inventory, the host must provide a replacement

-AISC shipped a laminated instruction guide with the vertical deflection devices. If you can't find this item, it can be downloaded from the equipment guide on the [Host Resources page](#). We ask that you print it and have a hard copy of the guide with the devices at all times.

Plywood Template -
Passageway

(1) Per Construction Station



-If this item is damaged or not found in inventory, the host must provide a replacement

-This item must be stored in a dry and temperature controlled area

Plywood Template - Ground
Clearance ($\frac{1}{2}$ " x 4" x 7 $\frac{1}{2}$ ")





(1) Per Construction Station



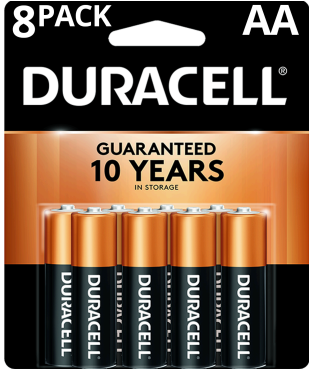




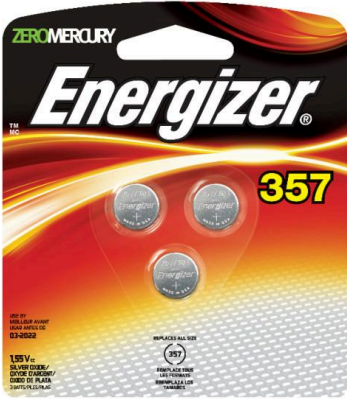

Not needed for 2025.

-If this item is damaged or not found in inventory, the host must provide a replacement

-This item must be stored in a dry and temperature controlled area

Inventory Item Name / Item # / Quantity per Station	Photo	Notes
<p>Wood Piece (4x4 x 3'-0") to increase maximum height of jack stands</p> <p>(8) Per Construction Station</p>		<p>Not needed for 2025.</p>
<p>Plywood piece to protect tops of scales (1" x 11" x 11")</p> <p>(4) Per Weighing Station</p>		<p>-If this item is damaged or not found in inventory, the host must provide a replacement</p>
<p>Wood Piece (2x4 x 3'-6")</p> <p>(1) Per Vertical Loading Station</p>		<p>-If this item is damaged or not found in inventory, the host must provide a replacement</p>
<p>Wood Block (2x4 x 6")</p> <p>(2) Per Construction Station (1) Per Vertical Loading Station</p>		<p>-If this item is damaged or not found in inventory, the host must provide a replacement</p> <p>-This item must be stored in a dry and temperature controlled area</p>

Inventory Item Name / Item # / Quantity per Station	Photo	Notes
<div>String Line (25')</div> <div>(1) Per Construction Station</div>		<div>-This is used along with two Wood Blocks (2" x 4" x 6") You will often find it tied to the blocks.</div> <div>-If this item is damaged or not found in inventory, the host must provide a replacement</div>
<div>Masking Tape Roll</div> <div>(1) Per Construction Station</div> <div>(1) Per Lateral Loading Station</div> <div>(1) Per Vertical Loading Station</div>		
<div>Batteries</div> <div>- Test all battery operated devices prior to competition</div> <div>- Batteries should be removed from item when not in use</div> <div>- If the batteries are dead or not found in inventory, the host will need to provide a replacement.</div>		
<div>Flashlight Battery</div> <div>(type: AA 2 per flashlight)</div> <div>(2) Per Construction Station</div>		

Inventory Item Name / Item # / Quantity per Station	Photo	Notes
Stopwatch Battery (type: LR44 1 per) (2) Per Construction Station	 A blister pack of two Duracell LR44 1.5V alkaline batteries. The packaging is black and yellow, featuring the Duracell logo and the text '+50% MORE POWER'. It also includes the code 'LR44 A76' and 'V55GA / 75A'.	
Scale Battery (type: 9V 1 per) (4) Per Weighing Station	 A blister pack of two Energizer Max 9V alkaline batteries. The packaging is black and red, featuring the Energizer Max logo and the text '9V2'. It also includes the text 'LONG LASTING', 'LONGUE DURÉE', and 'LARGA DURACIÓN'.	-Scale comes with a plug-in option, but can also run on batteries
Caliper Battery for Vertical Deflection Device (type: 357) (2) Per Vertical Loading Station	 A blister pack of three Energizer 357 1.5V alkaline batteries. The packaging is black and red, featuring the Energizer logo and the text '357'. It also includes the text 'ZERO MERCURY' and '1.5V'. It also includes the text 'USE BY: 2014-2015', 'DO NOT RECHARGE', 'DO NOT DISPOSE', 'DO NOT REUSE', 'DO NOT MIX', 'DO NOT MIX', 'DO NOT MIX', 'DO NOT MIX'.	
Laser Plumb Bob Battery (type: AAA 4 per) (4) Per Lateral Loading Station (8) Per Vertical Loading Station	 A blister pack of four Duracell AAA 1.5V alkaline batteries. The packaging is black and orange, featuring the Duracell logo and the text '8PACK AAA' and 'GUARANTEED 10 YEARS IN STORAGE'.	

Inventory Item Name / Item # / Quantity per Station	Photo	Notes
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New Inventory Items

These are new inventory items for 2025.

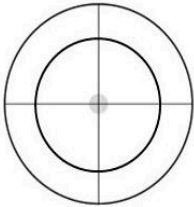
Plywood Template - Ground Clearance
(1/2" x 5-1/2" x 7")



-Host must make this item for 2025
-This item must be stored in a dry and temperature controlled area

(1) Per Construction Station

Concentric 3/4" + 1/2" Radius
Sway Target



These will be shipped to hosts in early 2025.

(4) Per Lateral Loading Station
(4) Per Vertical Loading Station

OUTER RADIUS = 3/4 INCH
INNER RADIUS = 1/2 INCH