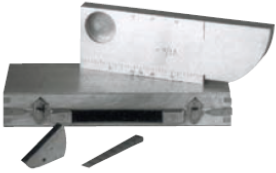


# Calibration Blocks

Calibration blocks provide known targets that produce echo indications that are used for instrument setup, transducer evaluation, and reference for evaluating flaw size.

## Calibration Blocks—European Standards

Block Type (Steel)	Order Code	Description
K1 EN 12223	59108	<ul style="list-style-type: none"><li>• Large angle beam calibration block, 100 mm radius</li><li>• Calibrate range with an angle beam transducer</li><li>• Measure beam index point and refracted angle</li></ul>
K2 EN 27963/ISO 7963	50434	<ul style="list-style-type: none"><li>• Small angle beam calibration block, 25 and 50 mm radii</li><li>• Calibrate range with an angle beam transducer</li><li>• Measure beam index point and refracted angle</li></ul>
VW	50441	<ul style="list-style-type: none"><li>• Step block for calibrating thickness range</li><li>• Eight .039 in (1 mm) steps, .039 in (1 mm) through .039 in (9 mm) to .315 in (8 mm)</li></ul>
N30	58474	<ul style="list-style-type: none"><li>• Ultrasonic reference standard</li><li>• Connect directly to flaw detector</li><li>• Produces multiple echoes at precise intervals in steel</li><li>• Check instrument gain over long time periods</li></ul>



## Calibration Blocks—North American Standards

Block Type (Steel)	Order Code	Description
IIW Type 1	118-540-270	<ul style="list-style-type: none"><li>• Large angle beam calibration block</li><li>• 4.0 in (101.6 mm) radius for angle beam range calibration</li><li>• Measure beam index point and refracted angle</li><li>• Also used to check resolution and sensitivity</li></ul>
IIW Type 2	118-540-280	<ul style="list-style-type: none"><li>• Same as IIW Type 1 with 2 in (50.8 mm) and 4 in (101.6 mm) radii for range calibration</li><li>• Side drilled holes also added for resolution check</li></ul>
DSC	118-540-300	<ul style="list-style-type: none"><li>• Small block for angle beam distance and sensitivity calibration</li><li>• 1.0 in (25.4 mm) radius opposite a 3.0 in (76.2 mm) radius</li><li>• 0.375 in (9.5 mm) slot in the 3.0 in (76.2 mm) radius</li><li>• Also used to check beam index point and refracted angle</li></ul>
Angle Beam, Miniature	118-540-260	<ul style="list-style-type: none"><li>• Substitute for DSC block</li><li>• 1.0 in (25.4 mm) radius opposite a 2.0 in (50.8 mm) radius</li><li>• Side drilled hole to check beam index point and refracted angle</li></ul>
AWS Resolution	118-540-350	<ul style="list-style-type: none"><li>• Evaluate angle beam transducer resolution capability</li><li>• Three sets of side drilled holes for 45°, 60° and 70° angles</li><li>• Three 0.062 in (1.6 mm) diameter holes in each set of holes</li></ul>
NAVSHIPS Test Block	118-540-370	<ul style="list-style-type: none"><li>• For NAVSHIPS specification 0900-006-3010, Section 6</li><li>• Distance amplitude correction, sensitivity, and flaw depth</li></ul>
4-Step Block	118-540-320	<ul style="list-style-type: none"><li>• Step block for calibrating thickness range</li><li>• Steps .250, .500, .750, 1.00 in (6.35, 12.70, 19.05, 25.40 mm)</li></ul>
5-Step Block	118-540-310	<ul style="list-style-type: none"><li>• Step block for calibrating thickness range</li><li>• Steps .100, .200, .300, .400, .500 in (2.54, 5.08, 7.62, 10.06, 12.70 mm)</li></ul>

