STANDARD SPECIFICATION FOR MODULAR GABION SYSTEMS
WELDED WIRE FABRIC GABIONS & GABION MATTRESSES
[METALLIC COATED OR POLYVINYL CHLORIDE (PVC) COATED]

1. SCOPE

1.1. This specification covers gabions and gabion mattresses produced from metallic coated welded wire fabric, and metallic coated wire for spiral binders, lacing wire, and stiffeners used to assemble the product. The metallic coated fabric may be polyvinyl chloride (PVC) coated after fabrication. The spiral binders, lacing wire, and stiffeners may be polyvinyl chloride (PVC) coated after metallic coating. Polyvinyl chloride hereinafter will be designated as PVC.

1.2. Welded wire fabric for gabions and gabion mattresses is produced in five styles, based on kind of coating, as described in Section 4.

1.3. The values stated in inch-pound units are regarded as the standard. The SI values shown in parentheses are provided for information purposes only.

1.4. The text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

2. REFERENCED DOCUMENTS

ASTM A 90/A 90 M - Test Method for Weight (Mass) of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coating
ASTM A 185 - Specification for Steel Welded Wire Fabric, Plain, for Concrete Reinforcement
ASTM A 370 - Mechanical Testing of Steel Products
ASTM A 428 - Test Method for Weight of Coating on Aluminum Coated Iron and Steel Articles
ASTM A 641 - Specification for Zinc Coated (Galvanized) Carbon Steel Wire
ASTM A 809 - Specification for Aluminum Coated (Aluminized) Steel Wire
ASTM A 853 - Specification for Steel Wire, Carbon, for General Use
ASTM A 856/A 856M - Specification for Zinc-5% Aluminum-Mischmetal Alloy-Coated Carbon Steel Wire
ASTM A 902 - Terminology Relating to Metallic Coated Steel Products
ASTM B 117 - Standard Practice for Operating Salt Spray (Fog) Testing Apparatus
ASTM D 638 - Test Method for Tensile Properties of Plastics
ASTM D 746 - Test Method for Brittleness Temperature of Plastics and Elastomers by Impact
ASTM D 792 - Test Method for Specific Gravity (Relative Density) and Density of Plastics by Displacement
ASTM D 1242 - Test Methods for Resistance of Plastic Materials to Abrasion
ASTM D 1499 - Practice for Operating Light- and Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Plastics
ASTM D 2240 - Test Method for Rubber Property-Durometer Hardness
ASTM G 23 - Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials
3. TERMINOLOGY

3.1. Definitions - Refer to Terminology A 902 for general terminology relating to metallic-coated steel products.

3.2. Descriptions of Terms Specific to this Standard:

3.2.1. gabion, n—a wire fabric container, uniformly partitioned, of variable size, interconnected with other similar containers and filled with stone at the site of use, to form flexible, permeable, monolithic structures such as retaining walls, sea walls, channel linings, revetments, and weirs for erosion control. (Figure 1). Typical gabion sizes are shown in Table 2.

3.2.2. gabion mattress, n—a gabion with relatively small height in relation to the lateral dimensions, generally used for lining channels. (Figure 2). Typical gabion mattress sizes are shown in Table 3.

3.2.3. lacing wire, n—for gabions and gabion mattresses, a metallic coated steel wire or metallic coated steel wire with PVC coating used to assemble and interconnect empty gabion units, and to close and secure stone filled units, used as an alternate to spiral binders.

3.2.4. spiral binder, n—for gabions and gabion mattresses, a length of metallic coated steel wire or metallic coated steel wire with PVC coating preformed into a spiral, used to assemble and interconnect empty gabion units, and to close and secure stone filled units, used as an alternate to lacing wire.

3.2.5. stiffener, n—for gabions, a length of metallic coated steel wire or metallic coated steel wire with PVC coating used for support by forming a diagonal brace across the corners, inside of the gabion container. Stiffeners are produced using lacing wire for on site applications or shipped preformed using heavier wire gauge as shown in Table 1.

3.2.6. welded wire fabric, n—material composed of a series of longitudinal and transverse steel wires arranged substantially at right angles to each other, and welded together at the points of intersection by electrical resistance welding to form fabricated sheets.

4. CLASSIFICATION

4.1. Welded wire gabions are classified according to the coating as follows:

4.1.1. Style 1 consists of welded wire fabric made from wire which is zinc coated before being welded into fabric. Spiral binders, lacing wire, and stiffeners are produced from zinc-coated wire.

4.1.2. Style 2 consists of welded wire fabric which is made from uncoated wire and the fabric is subsequently zinc coated after fabrication. Spiral binders, lacing wire, and stiffeners are produced from zinc-coated wire.

4.1.3. Style 3 consists of welded wire fabric made from wire which is coated with zinc-5% aluminum-mischmetal alloy (Zn-5Al-MM) before being welded into fabric. Spiral binders, lacing wire, and stiffeners are also produced from zinc-5% aluminum-mischmetal alloy (Zn-5Al-MM).

4.1.4. Style 4 consists of welded wire fabric made from wire which is aluminum coated before being welded into fabric. Spiral binders, lacing wire, and stiffeners are also produced from aluminum coated (Aluminized) wire.

4.1.5. Style 5 consists of welded wire fabric, spiral binders, lacing wire, and stiffeners as Styles 1, 2, 3, or 4, and overcoated with PVC.
5. ORDERING INFORMATION

5.1. Orders for material to this specification should include the following information:

5.1.1. Quantity (number of units) as shown on plan

5.1.2. Gabions or Gabion Mattresses

5.1.2.1. Size (length x width x height)

5.1.3. Style of coating (Section 4). Give the specific style to be furnished, or list all acceptable styles.

5.1.4. ASTM designation and year of issue

5.1.5. Any special requirements (see 8.2.5 and Note 4)

5.1.6. Certification, if required (see 15.1)

6. MATERIAL AND MANUFACTURE

6.1. The wire used in the manufacture of welded wire fabric for use in gabions shall conform to the specification shown in 6.1.1 as appropriate for the style ordered, except the tensile strength shall conform to 7.1. The wire may be produced from any grade of steel listed in ASTM A 853.


6.2. Spiral binders, lacing wire, and stiffeners shall be made of wire having a tensile strength as stated in 7.1, having the same coating material as the welded wire fabric furnished on the order, and conforming to Specification A 641, A 856/A 856M, or A 809, as appropriate.

6.3. Wire for welded wire fabric shall be assembled by automatic machines or other suitable mechanical means which will assure accurate spacing and alignment of all members of the finished fabric. Longitudinal and transverse members of the welded wire fabric shall be connected at every intersection meeting the requirements of Section 7.2 by the process of electric resistance welding, which employs the principle of fusion combined with pressure.

6.4. PVC coating used in the manufacture of PVC coated gabions and gabion mattresses shall conform to the properties described in 8.2 and 8.3. PVC Coated welded wire fabric shall have the PVC coating fused and bonded onto the metallic-coated welded wire fabric after fabrication of mesh. No cutting of the panels closer than ¼" ± 3.18 mm to the weld shall be permitted after fabrication in order to prevent exposure near the welds.

6.5. PVC-coated wire for spiral binders, lacing wire, and stiffeners shall have the PVC coating fused and bonded or extruded and adhered, onto the metallic-coated wire.

6.6. Gabions and gabion mattresses shall be manufactured with all components mechanically connected at the production facility with the exception of the mattress lid which is produced separately from the base (Figures 1 and 2). All gabions (Figure 3) and gabion mattresses (Figure 4) shall be supplied in the collapsed form, either folded and bundled or rolled, for shipping.
7. MECHANICAL PROPERTIES

7.1. Tensile Strength—The tensile strength of the wire used for the welded wire fabric, spiral binders, lacing wire, and stiffeners shall be soft or medium in accordance with the requirements of the specifications ASTM A 641 (Style 1), ASTM A 856/A 856M (Style 3), and ASTM A 809 (Style 4) or Hard Drawn in accordance with ASTM A 853 (Style 2). The cross sectional area of the test specimen shall be based on the diameter of the metallic coated wire. All the wires used in the fabrication of gabions and gabion mattresses must use the same temper wire per given order.

7.2. Weld Shear Strength—The minimum average shear value in pounds-force shall be 70% of the breaking strength of the wire or as indicated in the table below, whichever is greater, when tested as described in 13.4 (reference ASTM A 185).

    Typical minimum average shear strengths as specified are shown below:

<table>
<thead>
<tr>
<th>Wire Diameter in. (mm)</th>
<th>Min. Avg. Shear Strength lbs (newtons)</th>
<th>Minimum Shear Strength lbs (newtons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.087 (2.2)</td>
<td>292 (1300)</td>
<td>225 (1000)</td>
</tr>
<tr>
<td>0.106 (2.7)</td>
<td>472 (2100)</td>
<td>360 (1600)</td>
</tr>
<tr>
<td>0.120 (3.05)</td>
<td>584 (2600)</td>
<td>450 (2000)</td>
</tr>
</tbody>
</table>

7.2.1. Conformance to Requirement —The material shall be deemed to conform with the requirements for weld shear strength if the average of the test results of the first four specimens tested complies with the value in 7.2, or if the average of the test results for all welds tested complies with the value in 7.2.

7.3. A. Panel to Panel Joint Strength—The minimum strength of the joined panels, when tested as described in Section 13.5, shall be as follows:

<table>
<thead>
<tr>
<th>Exterior Panels</th>
<th>Diaphragm Panels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gabions</td>
<td>1400 (20.4)</td>
</tr>
<tr>
<td>Gabion Mattresses</td>
<td>600 (8.7)</td>
</tr>
</tbody>
</table>

8. PHYSICAL PROPERTIES

8.1. Metallic Coating—The coating weights shall conform to the requirements of Specification A 641 Class 3 for zinc coating (including the zinc coating on the Style 2 fabric) or Specification A 856/A 856M Class 3 for Zn-5Al-MM coating, or Specification A 809 for aluminum coating.

8.2. PVC for Coating—The initial properties of PVC coating material shall have a demonstrated ability to conform to the following requirements:

8.2.1. Specific Gravity —In the range of 1.20 to 1.40, when tested according to Test Method D 792.

8.2.2. Tensile Strength—Not less than 2,275 psi (15.7 MPa), when tested according to Test Method D 638.
8.2.3. Modulus of Elasticity—Not less than 1,980 psi (13.7 MPa) at 100 Strain, when tested according to Test Method D 638.

8.2.4. Hardness—Shore “A” not less than 75, when tested according to Test Method D 2240.

8.2.5. Brittleness Temperature—Not higher than 15°F (-9°C), or lower temperature when specified by the purchaser, when tested according to Test Method D 746.\(^1\)

8.2.6. Resistance to Abrasion—The percentage of the weight loss shall be less than 12%, when tested according to Test Method D 1242, Method B at 200 cycles, CSI-A Abrader Tape, 80 Grit.

8.2.7. Salt Spray Exposure and Ultraviolet Light Exposure.

8.2.7.1. The PVC shall show no effect after 3,000 hours of salt spray exposure according to Standard Practice B 117.

8.2.7.2. The PVC shall show no effect of exposure to ultraviolet light with test exposure of 3,000 hours, using apparatus Type E and 63°C, when tested according to Practice D 1499 and Practice G 23.

8.2.7.3. Evaluation of Coating After Salt Spray and Ultraviolet Exposure Test—After the salt spray test and exposure to ultraviolet light as specified above, PVC coating shall not show cracks, blister, split, nor noticeable change of color. In addition, the specific gravity, tensile strength, modulus of elasticity and resistance to abrasion shall not change more than 6%, 25%, 25%, and 10% respectively from their initial values.

8.3. PVC Coating on Wire—The initial properties of the PVC coating on the wire and welded wire fabric shall have a demonstrated ability to conform to the following requirements:

8.3.1. Adhesion—The PVC coating shall adhere to the wire such that the coating breaks rather than separates from the wire when tested as described in 13.3.

8.3.2. Mandrel Bend—PVC coated wire when subjected to a single 360° bend at -0°F (-18°C) around a mandrel ten times the diameter of the wire, shall not exhibit breaks or cracks in the PVC coating.

9. DIMENSIONS AND TOLERANCES

9.1. The diameter of metallic coated wire shall conform to Table 1.

9.2. The minimum thickness of the PVC coating and the wire shall be as shown in Table 1.

9.3. Gabions shall have a mesh opening of 3 in. X 3 in. (76 mm X 76 mm). Gabion mattresses shall have a mesh opening of 1½ in. X 3 in. (38 mm X 76 mm). Mesh opening shall be considered to be center-to-center distance between two consecutive longitudinal or transverse wires. The permissible tolerance is ± 1/8 in. (3.2 mm) maximum.

9.4. Spiral binders shall have the maximum inside diameter of 2½" (63.5 mm) and a maximum pitch of 3" (76.2 mm).

9.5. The width, height, and length of the gabion as assembled shall not differ more than ± 5% from the ordered size prior to filling.

\(^1\) Note 2 - The maximum brittleness temperature should be at least 15°F (8°C) below the minimum temperature at which the gabions will be handled or filled.
9.6. The width and length of the gabion mattress as assembled shall not differ more than ± 5 % and the height shall not differ more than ± 10 % from the ordered size prior to filling.

10. WORKMANSHIP

10.1. Wire of proper grade and quality, when fabricated in the manner herein required, shall result in a strong, serviceable mesh-type product having substantially square or rectangular openings. It shall be fabricated and finished in a workmanlike manner, as determined by visual inspection and shall conform to this specification.

11. SAMPLING

11.1. Samples for determining the mechanical and physical properties of welded wire fabric shall be obtained by cutting from the finished fabric a full width section of sufficient length to perform the testing. Samples for determining the mechanical and physical properties of coated wire used for spiral binders, lacing wire, and stiffeners shall be selected at random in sufficient number to perform the testing.

12. NUMBER OF TESTS

12.1. Perform a minimum of four tests for conformance to tensile strength of metallic coated wire, weld shear strength, wire and fabric dimensions, metallic coating weight, PVC coating thickness, adhesion of PVC coating, and mandrel bend from each 200,000 sq. ft. (19,000 sq. m.) of fabric or remaining fraction thereof. Perform a minimum of four tests for conformance to tensile strength, wire dimensions, coating weight, PVC coating thickness, adhesion of PVC coating, and mandrel bend from the wire accessories used with each 200,000 sq. ft (19,000 sq. m) of fabric. Lot will be acceptable if the results of all four tests conform to the requirements.

13. TEST METHODS

13.1. Metallic Coating Weight—Perform coating weight tests as prescribed in Test Methods A 90/A 90M or A 428 as applicable. For coating weight tests on wire of the welded wire fabric, secure multiple lengths between welds, including both longitudinal and transverse wire, cut no closer than 1/4 in. (6.4 mm) from any weld. The combined length shall be 12 in. (305 mm) minimum, but preferably about 24 in. (610 mm).

13.2. PVC Coating Thickness:

13.2.1. The thickness of the PVC coating shall be determined on an individual piece of wire removed from the fabric.

13.2.2. Determine the diameter of the metallic coated wire after stripping the PVC coating by chemical means. Determine the thickness of the PVC coating by scraping the coating from one side of the wire and measuring the reduced diameter with a micrometer. The thickness of the coating at this point is the difference between the measurement thus obtained and the measured diameter of the metallic coated wire. Determine the thickness of the coating at right angles to the first determination in a similar manner. When removing the PVC coating by scraping, take care not to remove any of the metallic surface.

13.3. PVC Adhesion Test—Make two cuts parallel to the axis of the wire through the coating, approximately 1/16 in. (1.6 mm) apart, at least 1/2 in. (12.7 mm) long. With a knife peel back a section of the coating between 1/8 in. (3.2 mm) and 1/4 in. (6.4 mm) long to produce a tab. Attempt to remove the 1/16 in. (1.6 mm) strip of coating by pulling the tab. The lot shall be acceptable if the coating breaks rather than separates from the core wire on all four specimens.

13.4. Weld Shear Strength of Fabric:
13.4.1.1. Scope—This test method covers the procedure for determining the strength of welded intersections of welded wire fabric.

13.4.1.2. Significance and Use—The weld shear strength is a measure of the ability of welds in wire fabric to resist the forces imposed on the wires tending to pull them apart.

13.4.1.3. Apparatus—Use a testing fixture such as shown in Figure 5, which is intended to stress the vertical wire close to its center line, and to prevent rotation of the horizontal wire. This fixture can be used in most tensile testing machines and should be hung in a ball and socket arrangement at the center of the machine. This or a similarly effective fixture designed on the same principle, is acceptable (reference ASTM A185).

13.4.1.4. Test Specimens—Test specimens shall be obtained by cutting, from the finished fabric, a full width section including at least two transverse wires.

13.4.1.4.1. The transverse wire of each specimen shall extend approximately 1 in. (25 mm) on each side of the longitudinal wire. The longitudinal wire of each test specimen shall be of such length below the transverse wire so as to be adequately engaged by the grips of the testing machine. It shall be of such length above the transverse wire that its end shall be above the center line of the upper bearing of the testing device.

13.4.1.4.2. A test specimen shall consist of four welds selected at random from one transverse wire for weld shear strength. If the width of the fabric is such as to not include four welds that are suitable for testing, additional welds shall be taken from a second transverse wire to total four. (Welds at the edge wire are excluded from testing as there is no overhang to permit proper testing). If the average weld shear strength from the four specimens does not conform to the requirement of 7.2, test all the welds across the width (excluding edge welds) on one transverse wire, or on two transverse wires if some of the initial specimens were from the second transverse wire.

13.4.1.5. Weld Shear Test Procedure —Insert the long end of the vertical wire through the notch in the anvil. The vertical wire shall be in contact with the surface of the free rotating rollers while the horizontal wire shall be supported by the anvil on each side of the slot. The bottom jaws of the testing machine shall grip the lower end of the vertical wire and the load shall be applied at a rate of stressing not to exceed 100,000 psi/min. (689 MPa/min.)

13.4.1.6. Report—Report the test results to the nearest 5 pounds-force (25 newtons) for both individual results and the average of all tests.

13.4.1.7. Precision and Bias—The precision and bias of this test method for measuring weld shear strength are as specified in the test method included in Specification A 185.

13.4.1.8. Panel to Panel Connection —A set of two (2) identical rectangular gabion panels, each with a width of 36” and a minimum length of 9”, shall be joined by any of the following methods.

13.4.1.8.1. Lacing wire - lacing wire shall be alternately single and double looped with spacing not to exceed 6”. Ends shall be secured with two (2) complete revolutions and finish with a half (½) hitch.

13.4.1.8.2. Spiral Binders - spiral binders shall pass through the openings and shall be securely tied at both ends to prevent unraveling when a load is applied per the minimum strength requirements of Section 7.3. Each of the two panels shall be mounted on a loading machine with grips or clamps such that panels are uniformly
secured along the full width. The grips or clamps shall be designed to transmit only tension forces. The load then will be applied at a uniform rate not exceeding 50 lbs per second until maximum load is obtained. The maximum load is reached when a drop of strength is observed with subsequent loading.

14. INSPECTION

14.1. Unless otherwise specified in the contract or purchase order, the producer is responsible for the performance of all inspection and test requirements of this specification. The producer may use his own or any other suitable facilities for the performance of the tests unless disapproved by the purchaser at the time the order is placed. The purchaser at their own expense shall have the right to perform any of the inspections and tests set forth in this specification when such tests are deemed necessary to assure that the material conforms to prescribed requirements.

15. CERTIFICATION

15.1. When specified in the purchase order or contract, a producer's or supplier's certification shall be furnished to the purchaser that the material was manufactured, sampled, tested, and inspected in accordance with this specification and has been found to meet the requirements. When specified in the contract or purchase order, a report of the test results shall be furnished.

16. KEYWORDS

16.1.1. gabions; gabion mattresses; metallic coated fabric; PVC coated fabric; steel wire; welded wire fabric
### TABLE 1

Wire Diameters

<table>
<thead>
<tr>
<th></th>
<th>Minimum Nominal Diameter Metallic Coated Wire in. (mm)</th>
<th>Minimum Diameter PVC Coated Wire (Including Coating) in. (mm)</th>
<th>Nominal Diameter PVC Coated Wire (Including Coating) in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire for PVC coated gabions</td>
<td>0.106 (2.7) *</td>
<td>0.136 (3.5) *</td>
<td>0.146 (3.7) *</td>
</tr>
<tr>
<td>Wire for metallic coated gabions</td>
<td>0.120 (3.05)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Wire for gabion mattresses</td>
<td>0.087 (2.2)</td>
<td>0.117 (3.0)</td>
<td>0.127 (3.2)</td>
</tr>
<tr>
<td>Spiral binders for gabions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PVC coated</td>
<td>0.106 (2.7)</td>
<td>0.136 (3.5)</td>
<td>0.146 (3.7)</td>
</tr>
<tr>
<td>Metallic coated</td>
<td>0.120 (3.05)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Spiral binders for gabion mattresses, metallic or PVC coated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lacing wire</td>
<td>0.087 (2.2)</td>
<td>0.117 (3.0)</td>
<td>0.127 (3.2)</td>
</tr>
<tr>
<td>Stiffeners</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A) lacing wire</td>
<td>0.087 (2.2)</td>
<td>0.117 (3.0)</td>
<td>0.127 (3.2)</td>
</tr>
<tr>
<td>B) Preformed</td>
<td>0.120 (3.05)</td>
<td>0.150 (3.8)</td>
<td>0.160 (4.0)</td>
</tr>
</tbody>
</table>

*Option: Values designated by * indicate optional 11 gauge PVC coated wire

### TABLE 2

Typical Gabion Sizes

<table>
<thead>
<tr>
<th>Length (cm)</th>
<th>Width (cm)</th>
<th>Height (cm)</th>
<th>Number of Cells</th>
<th>Capacity CU. Yds (CU m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' (182.9)</td>
<td>3' (91.4)</td>
<td>3' (91.4)</td>
<td>2</td>
<td>2.0 (1.53)</td>
</tr>
<tr>
<td>9' (274.3)</td>
<td>3' (91.4)</td>
<td>3' (91.4)</td>
<td>3</td>
<td>3.0 (2.29)</td>
</tr>
<tr>
<td>12' (365.8)</td>
<td>3' (91.4)</td>
<td>3' (91.4)</td>
<td>4</td>
<td>4.0 (3.06)</td>
</tr>
<tr>
<td>6' (182.9)</td>
<td>3' (91.4)</td>
<td>1.5' (45.7)</td>
<td>2</td>
<td>1.0 (.765)</td>
</tr>
<tr>
<td>9' (274.3)</td>
<td>3' (91.4)</td>
<td>1.5' (45.7)</td>
<td>3</td>
<td>1.5 (1.15)</td>
</tr>
<tr>
<td>12' (365.8)</td>
<td>3' (91.4)</td>
<td>1.5' (45.7)</td>
<td>4</td>
<td>2.0 (1.53)</td>
</tr>
<tr>
<td>6' (182.9)</td>
<td>3' (91.4)</td>
<td>1' (30.5)</td>
<td>2</td>
<td>0.66 (0.50)</td>
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<tr>
<td>9' (274.3)</td>
<td>3' (91.4)</td>
<td>1' (30.5)</td>
<td>3</td>
<td>1.0 (0.765)</td>
</tr>
<tr>
<td>12' (365.8)</td>
<td>3' (91.4)</td>
<td>1' (30.5)</td>
<td>4</td>
<td>1.33 (1.02)</td>
</tr>
</tbody>
</table>

### TABLE 3

Typical Gabion Mattress Sizes

<table>
<thead>
<tr>
<th>Length Ft. (cm)</th>
<th>Width Ft. (cm)</th>
<th>Height Ft. (cm)</th>
<th>Number of Cells</th>
<th>Area Sq. Yds (Sq. m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9' (274.3)</td>
<td>6' (182.9)</td>
<td>6&quot; (15.2)</td>
<td>3</td>
<td>6.0 (5.2)</td>
</tr>
<tr>
<td>12' (365.8)</td>
<td>6' (182.9)</td>
<td>6&quot; (15.2)</td>
<td>4</td>
<td>8.0 (6.69)</td>
</tr>
<tr>
<td>9' (274.3)</td>
<td>6' (182.9)</td>
<td>9&quot; (22.9)</td>
<td>3</td>
<td>6.0 (5.2)</td>
</tr>
<tr>
<td>12' (365.8)</td>
<td>6' (182.9)</td>
<td>9&quot; (22.9)</td>
<td>4</td>
<td>8.0 (6.69)</td>
</tr>
</tbody>
</table>
Note 3 - See specification A 185 for additional information on weld shear testing. A detailed drawing showing complete dimensions of testing fixture may be obtained from ASTM by order Adjunct No. 12-101850-00.