

ALGRIP®
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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The CSI Construction Specifications Practice Guide*.

This section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" after editing this section.

Section numbers and titles are from *MasterFormat 2012 Update*.

SECTION 05 50 00

METAL FABRICATIONS

Specifier Notes: This section covers Ross Technology Corporation, "ALGRIP® Slip Resistant Flooring Products". Consult Ross Technology Corporation for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Slip Resistant Floor Plate.
- B. Slip Resistant Bar Grating.
- C. Slip Resistant Bar Grating Stair Treads.

- D. Slip Resistant Plate Stair Treads.
- E. Slip Resistant Stair Tread Repair Covers.
- F. Slip Resistant Stair Nosings.
- G. Slip Resistant Ladder Rung Covers.
- H. Slip Resistant Ladder Rungs.
- I. Slip Resistant Trench and Expansion Joint Covers.

1.2 RELATED REQUIREMENTS

Specifier Notes: Edit the following list of related sections as necessary. Limit the list to sections with specific information that the reader might expect to find in this section, but is specified elsewhere.

- A. Section 05 05 13 – Shop-Applied Coatings for Metal.
- B. Section 05 05 23 – Metal Fastenings.
- C. Section 05 51 00 – Metal Stairs.
- D. Section 05 51 16 – Metal Floor Plate Stairs.
- E. Section 05 51 19 – Metal Grating Stairs.
- F. Section 05 51 33 – Metal Ladders.
- G. Section 05 51 36 – Metal Walkways.
- H. Section 05 53 13 – Metal Bar Gratings.
- I. Section 05 54 00 – Metal Floor Plates.
- J. Section 05 55 13 – Metal Stair Treads.
- K. Section 05 55 16 – Metal Stair Nosings.
- L. Section 07 95 13 – Expansion Joint Cover Assemblies.
- M. Section 07 95 63 – Bridge Expansion Joint Cover Assemblies.

1.3 REFERENCE STANDARDS

- A. ASTM A 36 / A 36M – Standard Specification for Carbon Structural Steel.
- B. ASTM A123 – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- C. ASTM A1011 – Standard Specification for Steel, Sheet and Strip.
- D. ASTM B209 – Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- E. ASTM B221 – Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- F. ASTM A240 – Standard Specification for Chromium and Chromium-Nickle Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
- G. ASTM A276 – Standard Specification for Stainless Steel Bars and Shapes.
- H. ASTM A479 – Standard Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels.
- I. ASTM C1028 – Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
- J. ASTM F1679 – Standard Test Method for Using a Variable Incidence Tribometer.

1.4 PREINSTALLATION MEETINGS

Specifier Notes: Edit preinstallation meetings as necessary. Delete if not required.

- A. Convene preinstallation meeting [1 week] [2 weeks] before start of installation of slip resistant products.
- B. Require attendance of parties directly affecting work of this section, including Contractor, Architect, installer, and manufacturer's representative.
- C. Review materials, installation, adjusting, cleaning, protection, and coordination with other work.

1.5 SUBMITTALS

Specifier Notes: Edit submittal requirements as necessary. Delete submittals not required.

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data.

- C. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections, and details, indicating dimensions, tolerances, materials, components, fabrication, fasteners, hardware, finish, options, and accessories.
 - 1. Show details of attaching slip resistant products.
- D. Samples: Submit manufacturer's samples:
 - 1. Slip resistant flooring product, minimum 4 inches by 4 inches.
- E. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements.

1.6 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged, for past 5 years, in manufacture of slip resistant floor plates and bar gratings of similar type to that specified.
- B. Welder's Qualifications: AWS qualified within past 12 months for each type of weld required.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
 - 1. Store and handle materials in accordance with manufacturer's instructions.
 - 2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
 - 3. Store materials in clean, dry area indoors.
 - 4. Do not store materials directly on floor.
 - 5. Store materials on flat, level surface, raised above floor, with adequate support to prevent sagging.
 - 6. Protect materials and finish during storage, handling, and installation to prevent damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Manufacturer: ALGRIP®, manufactured by Ross Technology Corporation, 104 North Maple Avenue, P.O. Box 646, Leola, Pennsylvania 17540. Toll Free 800-345-8170. Fax 717-656-2041. Website www.ALGRIP.com. E-mail sales@rosstechnology.com.
- B. Substitutions: Not permitted.

2.2 SLIP RESISTANT FLOOR PLATE

- A. Slip Resistant Floor Plate – Carbon Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Floor Plate”
 - 1. Material: Steel, ASTM A36 or ASTM A1011.

2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal 0.035-inch
3. Plate Thickness: [14 Gauge] [12 Gauge] [11 Gauge] [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] [1/2-inch] [3/4-inch] [1-inch] [1 1/4-inches] [1 1/2-inches] [_____].
4. Plate Width (maximum 96 inches): [48 inches] [60 inches] [72 inches] [_____].
5. Plate Length (maximum 240 inches): [96 inches] [120 inches] [144 inches] [_____]
6. Finish: [Mill] [Hot-Dip Galvanized]
7. Attachment: [_____] [Indicated on the Drawings.]

B. Slip Resistant Floor Plate - Stainless Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Floor Plate”

1. Material: Stainless Steel, ASTM A276 or ASTM A479.
 - a. Alloy: [304/304L] [316].
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
3. Plate Thickness: [14 Gauge] [12 Gauge] [11 Gauge] [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] [1/2-inch] [3/4-inch] [1-inch] [1 1/4-inches] [1 1/2-inches] [_____].
4. Plate Width (maximum 96 inches): [48 inches] [60 inches] [72 inches] [_____].
5. Plate Length (maximum 240 inches): [96 inches] [120 inches] [144 inches] [_____]
6. Finish: [Mill] [2B Brushed] [Matte]
7. Attachment: [_____] [Indicated on the Drawings.]

C. Slip Resistant Floor Plate - Aluminum: Ross Technology Corporation “ALGRIP® Slip Resistant Floor Plate”

1. Material: Aluminum, ASTM B209.
 - a. Alloy: [3003] [5052] [6061]
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
3. Plate Thickness: [0.090-inch] [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] [1/2-inch] [3/4-inch] [1-inch] [1 1/4-inches] [1 1/2-inches] [_____].
4. Plate Width (maximum 96 inches): [48 inches] [60 inches] [72 inches] [_____].
5. Plate Length (maximum 240 inches): [96 inches] [120 inches] [144 inches] [_____]
6. Finish: Mill
7. Attachment: [_____] [Indicated on the Drawings.]

2.3 SLIP RESISTANT BAR GRATING

A. Slip Resistant Grating – Carbon Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Grating”

1. Material: Steel, ASTM A36 or ASTM A1011.
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 38 deposits per lineal foot per bearing bar.

- b. Deposit Height: Nominal 0.035-inch.
 - 3. Grating Style: [Welded] [Swaged] [Dove Tail].
 - a. Bearing Bar Spacing, Center-to-Center: [7/16-inch] [11/16-inch] [1 3/16-inches].
 - 1) Bearing Bar Thickness: [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] .
 - 2) Bearing Bar Depth: [1-inch] [1 1/4-inches] [1 1/2-inches] [1 3/4-inches] [2-inches] [2 1/4-inches] [2 1/2-inches] [3-inches] [3 1/2-inches] [4-inches] [4 1/2-inches] [5-inches]
 - b. Cross Bar Spacing, Center-to-Center: 4-inches.
 - 4. Finish: [Mill] [Hot-Dip Galvanized] [Black Paint]
 - 5. Attachment: [_____] [Indicated on the Drawings.]
- B. Slip Resistant Grating – Stainless Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Grating”
 - 1. Material: Stainless Steel, ASTM A276 or ASTM A479.
 - a. Alloy: [304/304L] [316].
 - 2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 38 deposits per lineal foot per bearing bar.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
 - 3. Grating Style: [Welded] [Swaged] [Dove Tail].
 - a. Bearing Bar Spacing, Center-to-Center: [7/16-inch] [11/16-inch] [1 3/16-inches].
 - 1) Bearing Bar Thickness: [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] .
 - 2) Bearing Bar Depth: [1-inch] [1 1/4-inches] [1 1/2-inches] [1 3/4-inches] [2-inches] [2 1/4-inches] [2 1/2-inches] [3-inches] [3 1/2-inches] [4-inches] [4 1/2-inches] [5-inches]
 - b. Cross Bar Spacing, Center-to-Center: 4-inches.
 - 4. Finish: [Mill] [Matte]
 - 5. Attachment: [_____] [Indicated on the Drawings.]
- C. Slip Resistant Grating – Aluminum: Ross Technology Corporation “ALGRIP® Slip Resistant Grating”
 - 1. Material: Aluminum, ASTM B221.
 - a. Alloy: [6061] [6063].
 - 2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 38 deposits per lineal foot per bearing bar.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
 - 3. Grating Style: [Welded] [Swaged] [Dove Tail].
 - a. Bearing Bar Spacing, Center-to-Center: [7/16-inch] [11/16-inch] [1 3/16-inches].
 - 1) Bearing Bar Thickness: [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] .
 - 2) Bearing Bar Depth: [1-inch] [1 1/4-inches] [1 1/2-inches] [1 3/4-inches] [2-inches] [2 1/4-inches] [2 1/2-inches] [3-inches] [3 1/2-inches] [4-inches] [4 1/2-inches] [5-inches]
 - b. Cross Bar Spacing, Center-to-Center: 4-inches.
 - 4. Finish: Mill
 - 5. Attachment: [_____] [Indicated on the Drawings.]

2.4 SLIP RESISTANT BAR GRATING STAIR TREADS

- A. Slip Resistant Bar Grating Stair Treads – Carbon Steel: Ross Technology Corporation
“ALGRIP® Slip Resistant Bar Grating Stair Treads”
1. Material: Steel, ASTM A36 or ASTM A1011.
 2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 38 deposits per lineal foot per bearing bar.
 - b. Deposit Height: Nominal 0.035-inch.
 3. Grating Style: [Welded] [Swaged] [Dove Tail].
 - a. Bearing Bar Spacing, Center-to-Center: [7/16-inch] [11/16-inch] [1 3/16-inches].
 - 1) Bearing Bar Thickness: [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] .
 - 2) Bearing Bar Depth: [1-inch] [1 1/4-inches] [1 1/2-inches] [1 3/4-inches] [2-inches] [2 1/4-inches] [2 1/2-inches] [3-inches] [3 1/2-inches] [4-inches] [4 1/2-inches] [5-inches]
 - b. Cross Bar Spacing, Center-to-Center: 4-inches.
 4. Stair Tread Depth: [_____] [Indicated on the Drawings.]
 5. Stair Tread Width: [_____] [Indicated on the Drawings.]
 6. Stair Tread Nosing: ALGRIP®.
 7. Finish: [Mill] [Hot-Dip Galvanized] [Black Paint]
 8. Attachment: [_____] [Indicated on the Drawings.]
- B. Slip Resistant Bar Grating Stair Treads – Stainless Steel: Ross Technology Corporation
“ALGRIP® Slip Resistant Bar Grating Stair Treads”
1. Material: Stainless Steel, ASTM A276 or ASTM A479.
 - a. Alloy: [304/304L] [316].
 2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 38 deposits per lineal foot per bearing bar.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
 3. Grating Style: [Welded] [Swaged] [Dove Tail].
 - a. Bearing Bar Spacing, Center-to-Center: [7/16-inch] [11/16-inch] [1 3/16-inches].
 - 1) Bearing Bar Thickness: [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] .
 - 2) Bearing Bar Depth: [1-inch] [1 1/4-inches] [1 1/2-inches] [1 3/4-inches] [2-inches] [2 1/4-inches] [2 1/2-inches] [3-inches] [3 1/2-inches] [4-inches] [4 1/2-inches] [5-inches]
 - b. Cross Bar Spacing, Center-to-Center: 4-inches.
 4. Stair Tread Depth: [_____] [Indicated on the Drawings.]
 5. Stair Tread Width: [_____] [Indicated on the Drawings.]
 6. Stair Tread Nosing: ALGRIP®.
 7. Finish: [Mill] [Matte]
 8. Attachment: [_____] [Indicated on the Drawings.]
- C. Slip Resistant Bar Grating Stair Treads – Aluminum: Ross Technology Corporation “ALGRIP® Slip Resistant Bar Grating Stair Treads”
1. Material: Aluminum, ASTM B221.
 - a. Alloy: [6061] [6063].
 2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.

- a. Deposit Pattern: Minimum 38 deposits per lineal foot per bearing bar.
- b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
- 3. Grating Style: [Welded] [Swaged] [Dove Tail].
 - a. Bearing Bar Spacing, Center-to-Center: [7/16-inch] [11/16-inch] [1 3/16-inches].
 - 1) Bearing Bar Thickness: [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] .
 - 2) Bearing Bar Depth: [1-inch] [1 1/4-inches] [1 1/2-inches] [1 3/4-inches] [2-inches] [2 1/4-inches] [2 1/2-inches] [3-inches] [3 1/2-inches] [4-inches] [4 1/2-inches] [5-inches]
 - b. Cross Bar Spacing, Center-to-Center: 4-inches.
- 4. Stair Tread Depth: [_____] [Indicated on the Drawings.]
- 5. Stair Tread Width: [_____] [Indicated on the Drawings.]
- 6. Stair Tread Nosing: ALGRIP®.
- 7. Finish: Mill
- 8. Attachment: [_____] [Indicated on the Drawings.]

2.5 SLIP RESISTANT PLATE STAIR TREADS

- A. Slip Resistant Plate Stair Treads – Carbon Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Plate Stair Treads”
 - 1. Material: Steel, ASTM A36 or ASTM A1011.
 - 2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal 0.035-inch.
 - 3. Plate Thickness: [11 Gauge] [_____]
 - 4. Stair Tread Depth: [12 inches] [_____] [Indicated on the Drawings.]
 - 5. Stair Tread Width: [36 inches] [_____] [Indicated on the Drawings.]
 - 6. Stair Tread Nose Bend Angle: [90 degrees] [_____] [Indicated on the Drawings.]
 - 7. Stair Tread Nose Bend Height: [2 inches] [_____] [Indicated on the Drawings.]
 - 8. Stair Tread Nose Bend Inside Radius: [1/2-inch] [_____] .
 - 9. Stair Tread Riser Bend Angle: [90 degrees] [_____] [Indicated on the Drawings.]
 - 10. Stair Tread Riser Bend Height: [2 inches] [_____] [Indicated on the Drawings.]
 - 11. Stair Tread Riser Bend Inside Radius: [1/2-inch] [_____]
 - 12. Finish: [Mill] [Hot-Dip Galvanized]
 - 13. Carrier Attachment: [_____] [Indicated on the Drawings.]
- B. Slip Resistant Plate Stair Treads - Stainless Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Plate Stair Treads”
 - 1. Material: Stainless Steel, ASTM A276 or ASTM A479.
 - a. Alloy: [304/304L] [316].
 - 2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
 - 3. Plate Thickness: [11 Gauge] [_____]
 - 4. Stair Tread Depth: [12 inches] [_____] [Indicated on the Drawings.]
 - 5. Stair Tread Width: [36 inches] [_____] [Indicated on the Drawings.]
 - 6. Stair Tread Nose Bend Angle: [90 degrees] [_____] [Indicated on the Drawings.]
 - 7. Stair Tread Nose Bend Height: [2 inches] [_____] [Indicated on the Drawings.]

8. Stair Tread Nose Bend Inside Radius: [1/2-inch] [_____].
9. Stair Tread Riser Bend Angle: [90 degrees] [_____] [Indicated on the Drawings.]
10. Stair Tread Riser Bend Height: [2 inches] [_____] [Indicated on the Drawings.]
11. Stair Tread Riser Bend Inside Radius: [1/2-inch] [_____].
12. Finish: [Mill] [2B Brushed] [Matte]
13. Carrier Attachment: [_____] [Indicated on the Drawings.]

C. Slip Resistant Plate Stair Treads - Aluminum: Ross Technology Corporation “ALGRIP® Slip Resistant Plate Stair Treads”

1. Material: Aluminum, ASTM B209.
 - a. Alloy: [3003] [5052] [6061]
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
3. Plate Thickness: [1/8-inch] [_____]
4. Stair Tread Depth: [12 inches] [_____] [Indicated on the Drawings.]
5. Stair Tread Width: [36 inches] [_____] [Indicated on the Drawings.]
6. Stair Tread Nose Bend Angle: [90 degrees] [_____] [Indicated on the Drawings.]
7. Stair Tread Nose Bend Height: [2 inches] [_____] [Indicated on the Drawings.]
8. Stair Tread Nose Bend Inside Radius: [1/2-inch] [_____].
9. Stair Tread Riser Bend Angle: [90 degrees] [_____] [Indicated on the Drawings.]
10. Stair Tread Riser Bend Height: [2 inches] [_____] [Indicated on the Drawings.]
11. Stair Tread Riser Bend Inside Radius: [1/2-inch] [_____].
12. Finish: Mill
13. Carrier Attachment: [_____] [Indicated on the Drawings.]

2.6 SLIP RESISTANT STAIR TREAD REPAIR COVERS

A. Slip Resistant Plate Stair Treads – Carbon Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Stair Tread Repair Covers”

1. Material: Steel, ASTM A36 or ASTM A1011.
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal 0.035-inch.
3. Plate Thickness: [11 Gauge] [_____]
4. Stair Tread Depth: [11 3/4-inches] [_____] [Indicated on the Drawings.]
5. Stair Tread Width: [35 3/4-inches] [_____] [Indicated on the Drawings.]
6. Stair Tread Nose Bend Angle: [90 degrees] [_____] [Indicated on the Drawings.]
7. Stair Tread Nose Bend Height: [1 1/4-inches] [_____] [Indicated on the Drawings.]
8. Stair Tread Nose Bend Inside Radius: [1/2-inch] [_____].
9. Finish: [Mill] [Hot-Dip Galvanized]
10. Cover Attachment: [_____] [Indicated on the Drawings.]

B. Slip Resistant Plate Stair Treads - Stainless Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Stair Tread Repair Covers”

1. Material: Stainless Steel, ASTM A276 or ASTM A479.
 - a. Alloy: [304/304L] [316].

2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
3. Plate Thickness: [11 Gauge] [_____]
4. Stair Tread Depth: [11 3/4-inches] [_____] [Indicated on the Drawings.]
5. Stair Tread Width: [35 3/4-inches] [_____] [Indicated on the Drawings.]
6. Stair Tread Nose Bend Angle: [90 degrees] [_____] [Indicated on the Drawings.]
7. Stair Tread Nose Bend Height: [1 1/4-inches] [_____] [Indicated on the Drawings.]
8. Stair Tread Nose Bend Inside Radius: [1/2-inch] [_____].
9. Finish: [Mill] [2B Brushed] [Matte]
10. Cover Attachment: [_____] [Indicated on the Drawings.]

C. Slip Resistant Plate Stair Treads - Aluminum: Ross Technology Corporation “ALGRIP® Slip Resistant Stair Tread Repair Covers”

1. Material: Aluminum, ASTM B209.
 - a. Alloy: [3003] [5052] [6061]
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch] .
3. Plate Thickness: [1/8-inch] [_____]
4. Stair Tread Depth: [11 3/4-inches] [_____] [Indicated on the Drawings.]
5. Stair Tread Width: [35 3/4-inches] [_____] [Indicated on the Drawings.]
6. Stair Tread Nose Bend Angle: [90 degrees] [_____] [Indicated on the Drawings.]
7. Stair Tread Nose Bend Height: [1 1/4-inches] [_____] [Indicated on the Drawings.]
8. Stair Tread Nose Bend Inside Radius: [1/2-inch] [_____].
9. Finish: Mill
10. Cover Attachment: [_____] [Indicated on the Drawings.]

2.7 SLIP RESISTANT STAIR NOSING

A. Slip Resistant Stair Nosing – Carbon Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Stair Nosing”

1. Material: Steel, ASTM A36 or ASTM A1011.
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal 0.035-inch.
3. Plate Thickness: [11 gauge] [_____].
4. Stair Nosing Dimensions: [1 1/4-inches] [_____] by [1 1/4-inches] [_____].
5. Stair Nosing Width: [72 inches] [_____].
6. Stair Nosing Inside Radius: [1/2-inch] [_____]
7. Finish: [Mill] [Hot-Dip Galvanized]
8. Attachment: [_____] [Indicated on the Drawings.]

B. Slip Resistant Stair Nosing - Stainless Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Stair Nosing”

1. Material: Stainless Steel, ASTM A276 or ASTM A479.

- a. Alloy: [304/304L] [316].
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
3. Plate Thickness: [11 gauge] [_____].
4. Stair Nosing Dimensions: [1 1/4-inches] [_____] by [1 1/4-inches] [_____].
5. Stair Nosing Width: [72 inches] [_____].
6. Stair Nosing Inside Radius: [1/2-inch] [_____].
7. Finish: [Mill] [2B Brushed] [Matte]
8. Attachment: [_____] [Indicated on the Drawings.]

C. Slip Resistant Stair Nosing - Aluminum: Ross Technology Corporation “ALGRIP® Slip Resistant Stair Nosing”

1. Material: Aluminum, ASTM B209.
 - a. Alloy: [3003] [5052] [6061]
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
3. Plate Thickness: [1/8-inch] [_____].
4. Stair Nosing Dimensions: [1 1/4-inches] [_____] by [1 1/4-inches] [_____].
5. Stair Nosing Width: [72 inches] [_____].
6. Stair Nosing Inside Radius: [1/2-inch] [_____].
7. Finish: Mill
8. Attachment: [_____] [Indicated on the Drawings.]

2.8 SLIP RESISTANT LADDER RUNG COVERS

A. Slip Resistant Ladder Rung Covers – Carbon Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Ladder Rung Covers”

1. Material: Steel, ASTM A36 or ASTM A1011.
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal 0.035-inch.
3. Cover Thickness: [11 gauge] [_____].
4. Cover Dimensions: Designed to fit [3/4-inch] [1-inch] [_____] rungs.
5. Cover Length: [17 1/2-inches] [_____].
6. Finish: [Mill] [Hot-Dip Galvanized]
7. Attachment: [_____] [Indicated on the Drawings.]

B. Slip Resistant Ladder Rung Covers - Stainless Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Ladder Rung Covers”

1. Material: Stainless Steel, ASTM A276 or ASTM A479.
 - a. Alloy: [304/304L] [316].
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.

- b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
- 3. Cover Thickness: [11 gauge] [_____].
- 4. Cover Dimensions: Designed to fit [3/4-inch] [1-inch] [_____] rungs.
- 5. Cover Length: [17 1/2-inches] [_____]
- 6. Finish: [Mill] [2B Brushed] [Matte]
- 7. Attachment: [_____] [Indicated on the Drawings.]

2.9 SLIP RESISTANT LADDER RUNGS

- A. Slip Resistant Ladder Rungs– Carbon Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Ladder Rungs”
 - 1. Material: Steel, ASTM A36 or ASTM A1011.
 - 2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal 0.035-inch.
 - 3. Rung Construction: Slip-resistant surface in center section, with bare ends for insertion into ladder rails.
 - 4. Rung Diameter: [3/4-inch] [1/2-inch] [_____]
 - 5. Rung Width (overall): [18 3/8-inch] [_____]
 - 6. Bare End Width (each side): [1/2-inch] [_____]
 - 7. Finish: [Mill] [Hot-Dip Galvanized]
 - 8. Attachment: [_____] [Indicated on the Drawings.]
- B. Slip Resistant Ladder Rungs - Stainless Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Ladder Rungs”
 - 1. Material: Stainless Steel, ASTM A276 or ASTM A479.
 - a. Alloy: [304/304L] [316].
 - 2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch].
 - 3. Rung Construction: Slip-resistant surface in center section, with bare ends for insertion into ladder rails.
 - 4. Rung Diameter: [3/4-inch] [1/2-inch] [_____]
 - 5. Rung Width (overall): [18 3/8-inch] [_____]
 - 6. Bare End Width (each side): [1/2-inch] [_____]
 - 7. Finish: [Mill] [Matte]
 - 8. Attachment: [_____] [Indicated on the Drawings.]

2.10 SLIP RESISTANT TRENCH AND EXPANSION JOINT COVERS

- A. Slip Resistant Trench and Expansion Joint Covers – Carbon Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Trench and Expansion Joint Covers”
 - 1. Material: Steel, ASTM A36 or ASTM A1011.
 - 2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal 0.035-inch.

3. Plate Thickness: [14 Gauge] [12 Gauge] [11 Gauge] [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] [1/2-inch] [_____].
4. Dimensions: [_____] [Indicated on the Drawings.]
5. Finish: [Mill] [Hot-Dip Galvanized]
6. Attachment: [_____] [Indicated on the Drawings.]

B. Slip Resistant Trench and Expansion Joint Covers – Stainless Steel: Ross Technology Corporation “ALGRIP® Slip Resistant Trench and Expansion Joint Covers”

1. Material: Stainless Steel, ASTM A276 or ASTM A479.
 - a. Alloy: [304/304L] [316].
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch]
3. Plate Thickness: [14 Gauge] [12 Gauge] [11 Gauge] [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] [1/2-inch] [_____].
4. Dimensions: [_____] [Indicated on the Drawings.]
5. Finish: [Mill] [2B Brushed] [Matte]
6. Attachment: [_____] [Indicated on the Drawings.]

C. Slip Resistant Trench and Expansion Joint Covers – Aluminum: Ross Technology Corporation “ALGRIP® Slip Resistant Trench and Expansion Joint Covers”

1. Material: Aluminum, ASTM B209.
 - a. Alloy: [3003] [5052] [6061]
2. Slip Resistant Surface: ALGRIP® – Applied by CNC laser deposition process. Deposits are to penetrate the metal substrate to produce a permanent bond.
 - a. Deposit Pattern: Minimum 1000 deposits per square foot.
 - b. Deposit Height: Nominal [0.025-inch] [0.035-inch]
3. Plate Thickness: [0.090-inch] [1/8-inch] [3/16-inch] [1/4-inch] [3/8-inch] [1/2-inch] [_____].
4. Dimensions: [_____] [Indicated on the Drawings.]
5. Finish: Mill
6. Attachment: [_____] [Indicated on the Drawings.]

2.11 FINISHES

Specifier Notes: Galvanized finish is only available for carbon steel products. Brushed 2B finish and abrasive blast matte finish is available only on stainless steel products. Black painted finish is only available on carbon steel grating products. Mill finish is available on all products.

- A. Galvanized Finish:
 1. Apply 3 to 5-mil coating of zinc to in accordance with ASTM A123 after fabrication.
- B. Brushed 2B Finish
- C. Matte Finish:
 1. Create uniform matte finish using manufacturer’s abrasive blast process.

- D. Black Painted Finish:
 - 1. Apply manufacturer's standard black paint after fabrication.
- E. Mill Finish

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive slip resistant floor plates or components.
- B. Notify Project Engineer of conditions that would adversely affect installation or subsequent use.
- C. Do not begin installation until unacceptable conditions are corrected.

3.2 INSTALLATION

- A. Install ALGRIP® products in accordance with manufacturer's instructions at locations indicated on the drawings.
- B. Install ALGRIP® products plumb, level, square, straight, accurately aligned, and to proper elevation.

3.3 PROTECTION

- A. Protect installed ALGRIP® products to ensure that, except for normal weathering, ALGRIP® products will be without damage or deterioration at time of Substantial Completion.

END OF SECTION