

GRIGLIATO Fencing, Railing and Screen System Specification Sheet

MR-MANUFACTURER

Metalco® offers technical assistance to Architects, Engineers, Contractors, Owners and Facility Managers regarding the design and installation of our products. We have provided many custom solutions for unusual situations. Let our experienced engineers assist you in determining the optimum design for your project. Please contact Atlantis Products, Inc. at **1-877-638-2526** to obtain our services. You also can contact us by e-mail at **sales@metalco.tv** or visit our Website at **www.metalco.us** for additional information.

Atlantis Products, Inc.
Metalco Fence & Railing Systems
586 Territorial Dr.
Bolingbrook, IL 60440
TEL: 630-971-9680, Fax: 630-971-9860

PP-PRODUCT PRESENTATION

The *Grigliato* system utilizes the strength and flexibility of the *Grigliato* panels from Metalco®. The *Grigliato* System enables us to offer an affordable modular system, which is practical, durable and sturdy. This unique railing system provides a wide variety of design solutions. It can be brightly colored and configured to be a design feature or it can blend inconspicuously with the surroundings.

The *Grigliato* panels are ideally suited for retrofitting existing railing systems, which are not in compliance with current building codes.

Grigliato is an electro-forged welded steel panel. The panels are hot-dip galvanized in accordance to ASTM 123B. Optional available is our extremely durable polyester powder finish.

Railing System

The *Grigliato* Railing System can span between post supports or be mounted onto structurally suitable elements. An average post spacing of 3'-6" to 4'-0" for stairs and 3'-6" to 4'-6" for straight balcony railings is recommended. The system can span up to 12' if optional available horizontal supports are used. See our CAD details for additional information. Please contact Metalco® for engineering and design assistance when preparing detail solutions.

Handrails

For railing types we offer optional these handrail types: Channel, square and rectangular tubes. Handrails may be finished to match or contrast with the supports and panels. Wood and other handrail materials can also be specified and supplied by Metalco®.

Fencing System

Fence posts are of sufficient length to allow for setting into concrete footers. Posts with flanges (base plate) are also available. The recommended standard fence post spacing is 78" (2000mm) apart; however, drawing will call out special spacing when required. In-ground posts may be set in concrete into hole 12" (303mm) in diameter for terminal posts and 10" (254mm) in diameter for intermediate posts. Concrete should be 6" (152mm) deeper than posts. Deeper and wider settings may be necessary in some locations. It is recommended that the fence be temporarily erected using 2 x 4 supports. After the fence is plumb and level, pour concrete grouting into holes. Installation of some railing systems and customized products may vary.

Screen System

The Metalco® screen system can span between post supports or be mounted onto structurally suitable elements. Please contact Metalco® for engineering and design assistance when preparing detail solutions.

Grigliato Panel Types

The Metalco[®] panel styles listed below are available.

Grigliato "A"

Characteristics

Widely used for Fence and Railing Designs. Hard to climb rectangular mesh.

Applications

Suitable for a vast range of applications. It can be used for prestigious projects as well as for high security needs. Applications include Sports, Schools, Institutional, Military, Urban and more

Specify:

Electro-forge welded steel panel. Type Metalco[®] Grigliato "A" by Atlantis Products, Inc., Tel. 877-638-2526. 2 7/16" x 5 3/16" (62x130) mesh. 31/32" x 1/8" (25x3), main bar, 3/16" (5) cross rod. Galvanized to ASTM 123 and/or polyester powder coated.

Grigliato "B"

Characteristics

Square mesh style. Very sturdy and hard to climb. Clean lines.

Applications

Fencing and Railing. Very versatile for commercial and residential use. Suitable for decorative applications (screens, dropped ceilings) as well as for railing applications.

Specify:

Electro-forge welded steel panel. Type Metalco[®] Grigliato "B" by Atlantis Products, Inc. , Tel. 877-638-2526. 2 7/16" x 2 19/32" (62x65) mesh. 31/32" x 1/8" (25x3) main bar, 3/16" (5) cross rod. Galvanized to ASTM 123 and/or Polyester powder coated.

Grigliato "C"

Characteristics

Square mesh style. Light in appearance with good "see through" ability.

Applications

Fencing and Railing. This model is well suited for applications which require a light and inconspicuous design with good "see through" quality. Also suitable for interior decorating (ceiling, divider, ect.).

Limitation: This model is easy to climb.

Specify:

Electro-forge welded steel panel. Type Metalco[®] Grigliato "C" by Atlantis Products, Inc. , Tel. 877-638-2526. 3 15/16" x 3 15/16" (62x65) mesh, 31/32" x 1/8" (25x3) main bar, 3/16" (5) cross rod. Galvanized to ASTM 123 and/or Polyester powder coated.

Grigliato "D"

Characteristics

Hard to climb rectangular mesh. Very sturdy and hard to climb.

Applications

Fencing and Railing. Similar mesh size as Grigliato "A", extremely sturdy design for wide spans or high security applications.

Specify:

Electro-forge welded steel panel. Type Metalco[®] Grigliato "D" by Atlantis Products, Inc. , Tel. 877-638-2526. 2 7/16" x 5 3/16" (62x130) mesh, 1 3/16 x 5/32" (30x5) mainbar, ¼" (6) crossrod. Galvanized to ASTM 123 and/or Polyester powder coated.

Grigliato "E"

Characteristics

Very small mesh, widely used in applications where a screen effect is wanted.

Applications

Screen Walls, Railings, Back Drops,

Specify:

Electro-forge welded steel panel. Type Metalco[®] Grigliato "E" by Atlantis Products, Inc. , Tel. 877-638-2526. 1" x 5 3/16" (24x130) mesh, 31/32" x 1/8" main bar (25x3), 3/16" (5) crossrod. Galvanized to ASTM 123 and/or Polyester powder coated.

Grigliato "F"

Characteristics

Very small mesh, widely used in applications where a screen effect is wanted.

Applications

Extremely small mesh for special effects. High security fence and railings, does not allow the passing of objects (i.e. Weapons) through the mesh. Used at airports, correctional facilities and for window protection.

Specify:

Electro-forge welded steel panel. Type Metalco[®] Grigliato "E" by Atlantis Products, Inc. , Tel. 877-638-2526. 1" x 1" (24x24)mesh, 31/32" x 1/8" main bar (25x3), 3/16" (5) crossrod. Galvanized to ASTM 123 and/or Polyester powder coated.

Grigliato "G"[®]

Characteristics

Widely used for Fence and Railing Designs. Hard to climb rectangular mesh.

Applications

Fencing and Railing. Suitable for a vast range of applications. It can be used for prestigious projects as well as for high security needs. Applications include Sports, Schools, Institutional, Military, Urban and more

Specify:

Electro-forged welded steel panel. Type Metalco® Grigliato "G" by Atlantis Products, Inc. , Tel. 877-638-2526. 2 3/8" x 4" (62x100) mesh, 31/32"x1/8" (25x3) mainbar, 3/16" (5) crossrod, 1"x 3/16" (25x4) frame bar. Galvanized to ASTM 123 and/or Polyester powder coated.

Grigliato "H"

Characteristics

Square mesh style. Very sturdy and hard to climb. Clean lines

Applications

Fencing and Railing. Very versatile for commercial and residential use. Suitable for decorative applications (screens, dropped ceilings) as well as for railing applications.

Specify:

Electro-forged welded steel panel. Type Metalco® Grigliato "H" by Atlantis Products, Inc. , Tel. 877-638-2526. 2 3/8" x 2" (62x50) mesh, 1" x 1/8" (25x3) mainbar, 3/16" (5) crossrod, 1"x3/16" (25x4) framebar. Galvanized to ASTM 123 and/or Polyester powder coated.

Grigliato "J"

Characteristics

Square mesh style. Light in appearance with good "see through" ability.

Applications

Fencing and Railing. This model is well suited for applications which require a light and inconspicuous design with good see through quality. Also suitable for interior decorating (ceiling, divider, ect.).

Limitation: This model is easy to climb.

Specify:

Electro-forged welded steel panel. Type Metalco® Grigliato "J" by Atlantis Products, Inc. , Tel. 877-638-2526. 4 7/8" x 5 3/16" (125x130) mesh, 31/32" x 1/8" (25x3) mainbar, 3/16" (5) crossrod, 1" x 3/16" (25x4) framebar. Galvanized to ASTM 123 and/or Polyester powder coated.

Grigliato "K"

Characteristics

Square mesh style. Very sturdy and hard to climb. Clean lines.

Applications

Fencing and Railing. Very versatile for commercial and residential use. Suitable for decorative applications (screens, dropped ceilings) as well as for railing applications.

Specify:

Electro-forged welded steel panel. Type Metalco® Grigliato "K" by Atlantis Products, Inc. , Tel. 877-638-2526. 1 21/32" x 5 3/16" (40x130) mesh, 31/32" x 1/8" (25x3) main bar, 3/16" (5) cross rod. Galvanized to ASTM 123 and/or Polyester powder coated.

Grigliato "L"

Characteristics

Square mesh style. Very sturdy and hard to climb. Clean lines.

Applications

Fencing and Railing. Very versatile for commercial and residential use. Suitable for decorative applications (screens, dropped ceilings) as well as for railing applications.

Specify:

Electro-forged welded steel panel. Type Metalco® Grigliato "L" by Atlantis Products, Inc. , Tel. 877-638-2526. 1 21/32" x 1 3/4" (40x45) mesh, 31/32" x 1/8" (25x3) main bar, 3/16" (5) cross rod. Galvanized to ASTM 123 and/or Polyester powder coated.

Curved Railings

All Grigliato panels are available in a curved design. The minimal radius that can be rolled is 8'-0". The radius would be perpendicular to the steel bar.

AI-ASSEMBLY, INSTALLATION

Posts can be attached to the structure below in several ways:

Using the recessed method, posts are set into cored holes or sleeves and anchored with non-shrink grout.

Using the surface mount method, mounting plates attached to each post are expansion bolted to the structure below.

Using the face mount method, the railing posts are mounted to the face of the structure typically below the level of the walking surface.

MF-MATERIALS, FINISHES

Thermosetting Polyester Powder Finish

Metalco[®] Fence and Railing Panels are protected by what we believe is the best finish available today. The computer controlled hot-dip galvanizing and the thermosetting polyester powder finish gives the

Metalco[®] System the highest possible protection against rust and corrosion.

Due to the nature of hot-dip galvanizing, the galvanized coating and powder coat can leave impurities on the treated surface, i.e., flashing, drips, drops, unevenness, roughness, pinholes etc. These do not impair the coating in terms of corrosion resistance and have no impact on the warranty. If a perfectly smooth surface is desired, non-galvanized powder coated only finish shall be specified.

The advanced polyester powder coating technology is environmentally friendly (no solvents, lead free) and offers a large color selection.

Tests for polyester powder coating in Accordance to ASTM:

Salt Spray Resistance ASTM B117: 1,000 hours

Hardness ASTM D3363: 2H

Direct Impact ASTM D2794: 160 in/lbs

Weatherability ASTM D822: 89%

Colors

8 Standard Colors are available: White, Black, Blue, Green, Red, Yellow, Gray and Brown. Additionally we offer an almost unlimited selection of custom colors. The polyester powder coating is available for all our products.

10-Year Warranty

Metalco[®] certifies that its Fencing Systems are free from defects in material and workmanship. The hot-dip galvanized coating can leave minor impurities on the treated surface, i.e., flashing, drips, drops, etc. These do not impair the coating in terms of corrosion resistance. The polyester-coated galvanized metal is guaranteed not to crack, peel or blister for a period of 10 years. Accidental damages, defects resulting from improper installation and damage from vandalism or abuse are not included. Warranty is limited to a prorated value of the coating, not to exceed the original value of the coating.