PRODUCT SPECIFICATIONS

Security Bars



Security bars for duct openings

Security Bars / Burglar Bars

Custom fabricated security bar assemblies for duct openings, roof curbs, wall penetrations, and high-security HVAC applications.

- Used to discourage people, animals, or large debris from entering duct systems through exposed rooftop or wall openings.
- Typically built with a steel perimeter frame and 1/2" rods welded at 6" on center, with custom spacing available when quoted.
- Most often shipped loose for installation into roof curbs, curb adapters, wall penetrations, or duct openings by others.

MATERIAL	**Mild Steel**
ROD LAYOUT	**1/2" at 6" O.C.**
FINISH	**Raw / optional coating**

Construction Standard

Application	Security bar assemblies for high-security duct openings, roof curbs, wall penetrations, equipment openings, and exposed HVAC intake or exhaust locations.
Standard material	Mild steel is standard. Stainless steel and aluminum can be quoted when corrosion resistance, weight, or project requirements call for alternate material.
Frame options	Frames can be fabricated from flat bar, angle, or sheet metal to match the opening, installation method, and required bearing surface.
Rod layout	1/2" rods at 6" on center are standard. Rod spacing, direction, clear opening, and frame depth should be confirmed before release.
Welding	Ends, corners, rod intersections, and frame joints are MIG welded for a rigid welded assembly unless another weld process is quoted.
Finish	Security bars are typically supplied raw/uncoated. Paint, powder coating, galvanizing, heat treating, or case hardening can be quoted when required.
Quality check	Security bar assemblies receive visual inspection before release. Code, security rating, structural approval, and field installation are by others unless quoted.

Security Bars

Build Quality

Made to spec	Built tough	Quality checked	Opening ready
Built to released opening size, frame type, and rod layout.	Welded bar construction for exposed security openings.	Welds and frame fit receive visual inspection before release.	Shipped loose for field installation in curbs or penetrations.

Fabrication Capabilities

Bar assemblies	Rectangular security bars, curb burglar bars, wall penetration bars, duct opening bars, equipment opening bars, and special frame sizes.
Frame styles	Flat bar frames, angle frames, sheet metal frames, flanged frames, drop-in frames, and custom mounting faces when shown or quoted.
Rod layouts	Standard 1/2" rods at 6" on center, custom rod spacing, cross-bar layouts, divided panels, and reinforced sections.
Materials	Mild steel standard, with stainless steel or aluminum options available when quoted.
Security details	Heat treating, case hardening, finish coating, bird screen, and special installation hardware can be coordinated when specified.
Release support	Built from released dimensions, templates, sketches, field measurements, or drawing packages with installation responsibilities clearly identified.

Build Options

Standard rod

1/2" round rods are standard for burglar bar assemblies unless another rod size is quoted.

Frame type

Flat bar, angle, or sheet metal frames can be selected to match the opening and attachment method.

Finish options

Raw steel is standard. Paint, powder coating, galvanizing, stainless steel, or aluminum can be quoted.

Bird screen

Bird screen can be added over the bar assembly when the opening also needs pest or debris control.

Configuration Options

Flat bar	Angle	Sheet metal	Screen
Low profile	**Mounting edge**	**Integrated frame**	**Bird screen**
Simple welded perimeter frame for many duct and curb openings.	Angle frames provide a stronger mounting face where the opening needs it.	Formed frames can coordinate with curb, adapter, or duct construction.	Optional screen can be added when pest control is part of the scope.

Optional Accessories

Bird screen

Wire screen can be added over the bar grid for pest or debris control.

Coatings

Paint, powder coating, galvanizing, or special coating requirements where quoted.

Hardening

Heat treating or case hardening can be quoted when the project requires it.

Custom details

Mounting tabs, drilled holes, labels, piece marks, shipping splits, and special hardware.

Required for Quote / Release

- Opening width, length, quantity, frame type, and required clear opening or outside frame dimensions.
- Approved drawing, sketch, curb/duct opening detail, wall penetration detail, or verified field dimensions.
- Rod size, rod spacing, rod direction, bird screen requirement, and whether the assembly ships loose or installs into another product.
- Material, finish, coating, galvanizing, powder coating, hardening, stainless, or aluminum requirements.
- Mounting face, hardware, drilled holes, piece marks, shipping splits, and inspection requirements.

Security Bars

Applications & details



Security opening protection

Built for roof curbs, wall penetrations, and duct openings where access through the duct system must be restricted. Frame size, clear opening, rod spacing, attachment method, and integration with adjoining duct or curb construction are coordinated to the release.

Fabrication details

Rod layout	**1/2" at 6" O.C.**
Frame	**Flat bar / angle / formed**
Welds	**Ends, corners, intersections**

Standard build

Typical construction uses a flat bar, angle, or sheet metal frame with 1/2" rods welded 6" on center. Alternate rod layouts, heavier frames, screens, finishes, and mounting provisions can be evaluated when identified in the quoted scope.

Opening size and required clear opening.

Frame style and mounting face.

Finish, screen, hardware, and security requirements.

Quote / release details

Confirm the opening, attachment method, finish, screen requirements, and whether the assembly ships loose or installs into another product. Orientation, clear dimensions, surrounding construction, and included anchors or hardware should be explicit before fabrication.

Not Included Unless Quoted

- Installation, field welding, anchoring, fastening, roofing, wall penetration work, or field modifications unless quoted.
- Engineering, security rating, detention rating, permits, inspections, AHJ approval, or listed-system certification.
- Hardware, coatings, galvanizing, heat treating, bird screen, field measuring, or rework from changed release dimensions unless quoted.

Scope & Responsibility

Code note: Project security requirements, applicable codes, and AHJ direction govern the completed installation. Legacy fabricates to released dimensions and quoted scope. Security criteria, structural approval, anchorage, installation, and field acceptance remain by others unless quoted.

Ready to Quote?

Let's get your project moving.

Send drawings, sketches, photos, or field measurements. Legacy is ready to go to work for you.

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