

**SPRING-ISOLATED CURB WITH SERVICE ACCESS**

SERVICEABLE ISOLATION FOR ROOFTOP EQUIPMENT

Seismic and spring isolated roof curb assemblies built with heavy-wall welded steel frames, factory-installed isolators, and access for future service.

- Used for rooftop HVAC units where vibration isolation, spring support, or seismic coordination is required by the project.
- Empire provides and installs the spring isolators when included in the quoted scope.
- Isolator quantity, capacity, and placement depend on released unit weight and center of weight distribution.

FRAME	Welded tube steel frame
ISOLATORS	Heavy-duty spring isolators
FINISH	G90 galvanized steel / coated steel

CONSTRUCTION STANDARD

Application	Seismic and isolated roof curbs for rooftop HVAC equipment where vibration isolation, spring support, or equipment movement control is required by the project design.
Curb body	Galvanized roof curb body fabricated to released dimensions, opening layout, height, flange details, service openings, and equipment interface requirements.
Isolation frame	Heavy-wall welded steel support frame fabricated around the released isolator layout unless another frame detail is specifically quoted.
Spring isolators	Empire provides and installs 1" deflection spring isolators. Quantity, capacity, and placement are based on released unit weight and center of weight distribution information.
Hardware	Isolators are securely fastened to the frame with hardware. Special anchorage requirements, finish requirements, or project-specific hardware must be identified before release.
Service openings	Service openings are provided to access isolators for inspection, bolt tension maintenance, and spring replacement when needed.
Load basis	Typical coordination uses released unit operating weight divided across the specified isolator count. Engineering review or load rating is by approved project direction when required.
Finish	Isolation frame is supplied as a coated steel frame. Special coating systems, touch-up requirements, or finish specifications must be identified before quote or release.

BUILD QUALITY



Welded frame

Heavy-wall coated steel frame built around the released isolator layout.



Springs installed

1" deflection isolators installed and fastened to the frame before the curb ships.



Service access

Openings provide access for bolt tension checks, inspection, and spring replacement.



Release controlled

Weight, layout, access side, and responsibility are confirmed before fabrication.

ISOLATION DETAILS

Deflection	Standard spring isolators use a 1" deflection rate. Alternate isolator requirements must be identified before quote or release.
Capacity	Isolator capacity is not universal. It depends on the rooftop unit weight, the center of weight distribution, and the approved isolator layout for that unit.
Placement	Isolators are positioned to support the released equipment load distribution and coordinate with the fabricated frame, curb body, and service openings.
Fastening	Isolators are securely fastened to the coated steel frame with hardware. Bolt tension should be maintained as part of ongoing service.
Maintenance	Service openings provide access to inspect isolators, maintain bolt tension, and replace springs as required by project maintenance practices.

LOAD & ENGINEERING NOTES

Typical load coordination

For typical quoted work, isolator capacity is coordinated from the released unit weight divided across the specified isolator quantity.

Not engineered by default

Empire does not normally provide stamped seismic engineering, load analysis, isolator selection, or structural review.

Independent review available

If a project requires engineered review or load rating, Empire can accommodate an independent engineering firm as a quoted add.

Project criteria by others

Seismic design, load path, roof attachment, inspection requirements, and final acceptance must be defined by others.

SPRING ISOLATORS



HEAVY-DUTY SPRING ISOLATORS

Spring isolators are built into the curb assembly to provide durable equipment support and help reduce vibration transfer into the roof structure over years of service.

CAPACITY RANGE Available from 50-1200 lb	DEFLECTION 1 in spring deflection	DUTY Heavy-duty rooftop service
SERVICE LIFE Designed for long-term use	MAINTENANCE Accessible for future inspection	SUPPORT Built for equipment load control

Service note: The isolators are protected within the fabricated assembly and remain accessible through service openings so they can be inspected, adjusted, or replaced as long-term maintenance requires.

REQUIRED FOR QUOTE / RELEASE

1

Unit information

Model number, approved submittal, base rail layout, operating weight, and center of weight information.

2

Curb layout

Curb dimensions, opening sizes, height, service side, roof pitch, and required shipping splits.

3

Isolator layout

Required isolator quantity, capacity, deflection, layout, or approved isolation schedule if already selected.

4

Project notes

Seismic restraint notes, attachment requirements, coating requirements, and any engineering documents by others.

5

Field responsibility

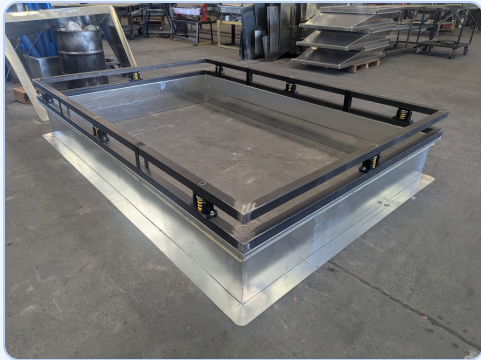
Roof attachment, waterproofing, installation, field anchoring, inspection, and final acceptance responsibility.

6

Timing

Release date, delivery timing, jobsite access constraints, and any contractor coordination needed before fabrication.

APPLICATIONS & EXAMPLES



APPLICATION DETAIL

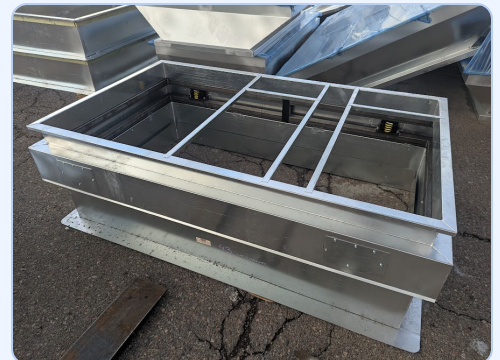
Isolated curbs for rooftop HVAC equipment

Finished galvanized curb assemblies can include coated welded isolation frames, service openings, and spring isolators coordinated to the released unit information.

APPLICATION DETAIL

Access panels for spring service

Service openings are provided so isolators can be inspected, bolt tension can be maintained, and springs can be replaced as needed.



APPLICATION DETAIL

Coated welded frame with installed springs

The isolation frame is fabricated from heavy-wall coated steel with isolators securely fastened with hardware before release.

NOT INCLUDED UNLESS QUOTED

- Stamped engineering, seismic calculations, isolator selection, load analysis, or independent engineering review unless specifically quoted.
- Field weight verification, structural review, roof attachment design, building load path review, permits, inspections, or authority approval.
- Installation, hoisting, rigging, roofing, waterproofing, field anchoring, startup, balancing, or post-install service.
- Replacement springs, recertification, special hardware, coating upgrades, maintenance visits, or field modification after release.

SCOPE & RESPONSIBILITY

Scope note: Empire fabricates to released dimensions and quoted scope, and installs isolators when included. Unit selection, verified operating weight, weight distribution, isolator selection, seismic design, anchorage, roof warranty, installation, inspection, and field acceptance remain by others unless expressly included.

READY TO QUOTE?



Let's get your project moving.

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

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