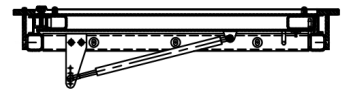


Roof & Escape Hatches

Maximum security hinged access



Harden's maximum security hinged hatch provides Department of State (DOS) certified protection against mob-level forced-entry attacks and rifle-level ballistic threats for emergency egress points in both roof and floor mounted applications. Heavy duty access hardware significantly reduces the amount of effort required for opening and closure.



Industries

- Government
- Military
- Oil & Gas
- Critical Infrastructure
- Commercial
- Safe Havens



Applications

Harden escape hatch designs have been used for many prominent and secure buildings. Maximum Security Hinged Hatches provide secure roof and floor level evacuation for prominent and mission critical buildings, safe rooms, control rooms, executive offices and anywhere the highest level of protection is important. Our customers include some of the largest government agencies, general contractors, integrators and corporations in the world.



Maximum Security Hinged Hatch –
DOS 60 Minute FE/BR



Design Overview

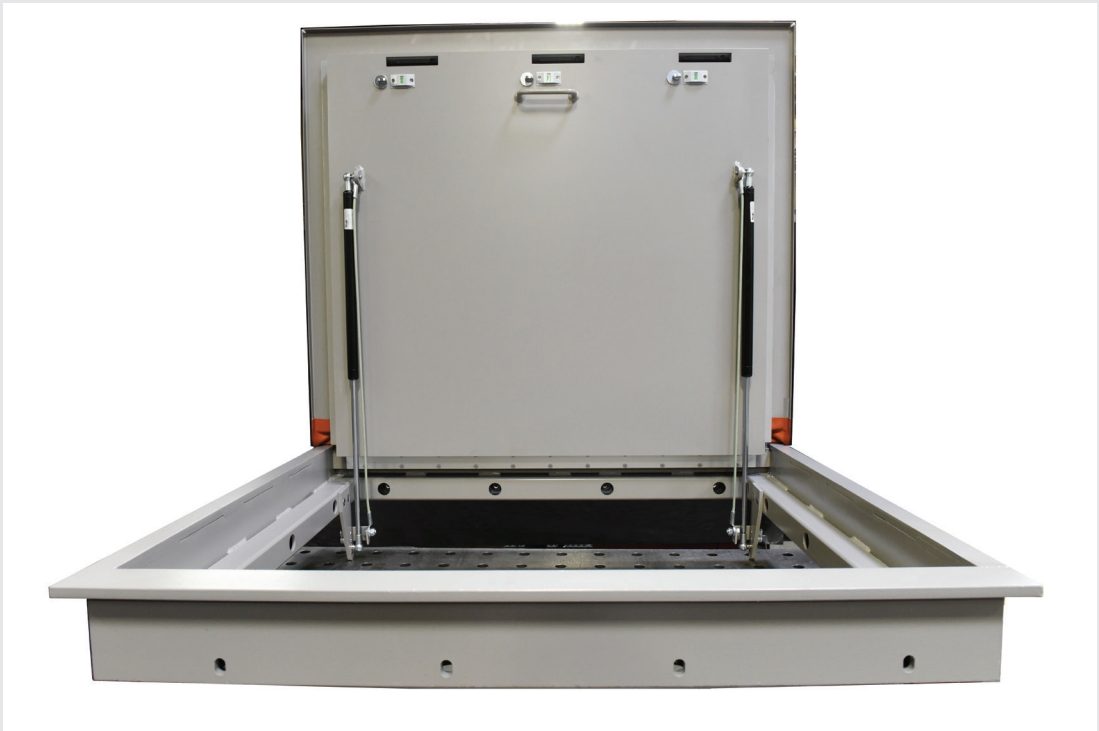
Certified to Department of State Standard SD-STD-01.01 Rev. G (Amended), Harden Maximum Security Hinged Hatches offer the utmost in DOS certified ballistic and forced-entry resistance for extreme threat conditions while providing a covert escape route for personnel. Designed to maximize the clear opening space within a given area, they offer the greatest amount of room for evacuating personnel and property. The hinged hatch is certified to withstand simulated forced-entry attacks for 60 minutes and 5.56 M193, 5.56 M855 and 7.62 M80 ballistic rounds. Fabricated as a complete system, typical construction includes a structural steel hatch frame with hinged panel and a plate or tube-type sub-frame.

Harden Maximum Security Hinged Hatches offer architects and end users:

- **Anti-Terrorism Level Security** – where conformance to U.S. Department of State forced-entry/ballistic resistant threat levels is required.

- **Emergency Egress** – where evacuation of personnel may become necessary.
- **Large Opening Sizes** – up to 42" x 36" clear opening accommodates most any access requirement.
- **Design Flexibility** – numerous finish options offer the ability to complement other building materials.
- **Durability** – structural steel materials and high-quality finishes provide extreme durability and low maintenance throughout the life cycle.

In addition to engineering the full hatch and sub-frame system, Harden has the unique ability to customize styles and finishes, providing architects and engineers with a wide range of flexibility in creating or preserving the aesthetics of new and existing structures.



Standard Features

- Perimeter T-frame with hinged steel panel
- Pre-drilled and tapped sub-frame in one of three styles
 - o Embed plate with studs for newly poured concrete walls
 - o Tubing with chemical or mechanical anchors for existing masonry walls
 - o Tubing for welding to steel walls
- Handle
- Gas strut assist
- Multiple locks, manually thrown

Standard Finish

- Epoxy primer

Optional Features & Finishes

Optional Features

- Access ladder
- Weather cover
- Safety post

Optional Finish

- Epoxy primer with finish top coat. Contact Harden for color chart.

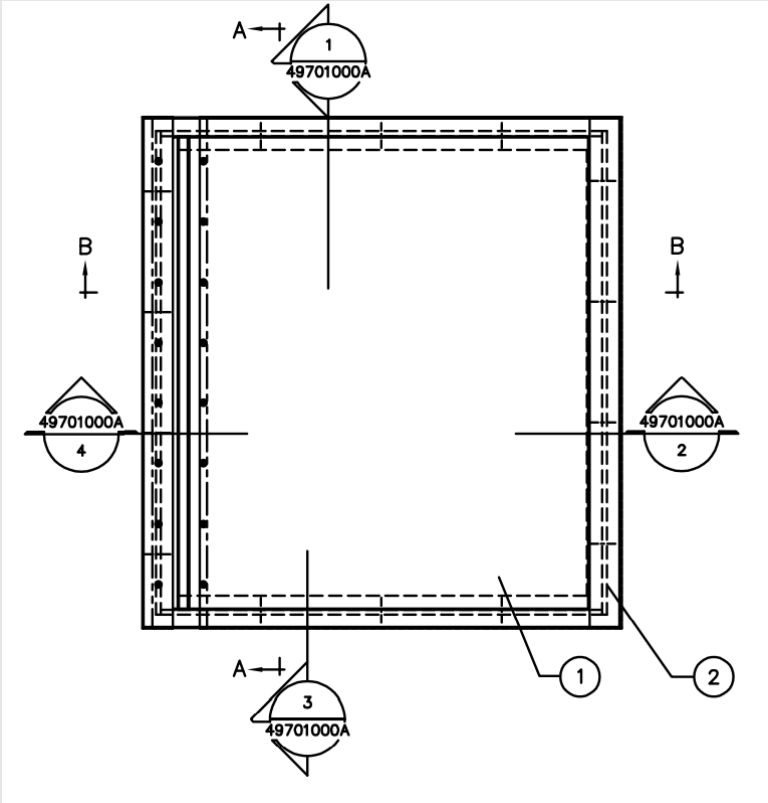
Technical Data

Applicable Standards, Testing & Certifications

Department of State, SD-STD-01.01 Rev. G (Amended): Certification Standard – Forced Entry and Ballistic Resistance of Structural Systems.

Installation Considerations

- Hatches are fully assembled at the factory, and require only minimal preparation prior to installation
- Sub-frames can be shipped in advance of hinged hatch assembly
- Three different methods of installation are available depending on the stage and type of construction:
 - o Pre-drilled and tapped plate-type embeds cast into concrete
 - o Pre-drilled and tapped steel tube-type sub-frames bolted into the roof structure or curbing
 - o Pre-drilled and tapped steel tube-type sub-frames welded to the roof structure



Maintenance

Regular inspection of hatch operation, cover and flashing is recommended. See maintenance manual for details.

Availability & Cost

Hatches are typically manufactured to order and subject to production lead times at the time of purchase. Contact Harden for details.

Warranty

Harden warrants that its Architectural Security products shall remain free of defects in material and workmanship under normal use for a period determined by the individual project specification.



Model Information	
Harden Model Series	EH2 2133
Hatch and Frame Construction	Steel, Hinged Panel
Frame Depth	5.25" (133 mm)
Frame Profile	T-shape. Does not require secondary ballistic stop bars
Frame Size	42.0" (1067 mm) x 44.9" (1141 mm) or 48.0" (1219 mm) x 44.9" (1141 mm)
Clear Opening Size	36" (914 mm) x 36" (914 mm) or 42" (1067 mm) x 36" (914 mm)
Mounting Technique	M12 bolts
Ballistic Resistance	5.56 M193, 5.56 M855, 7.62 M80 Per DOS SD-STD-01.01 Rev G (Amended)
Forced Entry Resistance	60 minutes Per DOS SD-STD-01.01 Rev G (Amended)
DOS Code	2133



**Harden offers a complete line
of Architectural and Perimeter
Security Products**

- Windows & Deal Trays
- Doors
- Louvers
- Roof/Escape Hatches
- Anti-Climb Sliding Gates
- Passive Bollards



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