

Specification for the Hatch Net Products

1. PRODUCT NAME

Hatch Net 121

2. MANUFACTURER

Safe Approach Inc.
206 Mechanic Falls Rd
Poland, ME 04274
Phone: (800) 471-1157
(207) 345-9900
Fax: (207) 345-9100

3. PRODUCT DESCRIPTION

Basic Use: A rail mounted safety net system designed to be installed in all types of floor access and roof hatches to reduce risks associated with open hatches. The safety net system provides protection during the initial opening of this hatch and maintains protection after access has been gained. The safety net easily slides on guide rails to facilitate entry and then repositioned to prevent fall through. This system also provides excellent fall through protection while a hatch or other opening is left uncovered, and/or while a worker is below.

HATCH NET 120 and HATCH NET 121 can be manufactured to fit 150#, 300#, H-20 live load, and roof hatch.

Composition and Materials: The brackets and slide rails for the Hatch Net 120 are aluminum. The rails and slide hooks for the Hatch Net 121 are also made from aluminum. The netting is polyester. The corner hooks and eye bolts are 316 stainless steel.

Limitations: The safety net system after installation should be maintained in the closed position after each use.

The Hatch Net is a fall protection system. At no time is the net to be used as a work platform, lifting mechanism, tool holder, tie off point, or to attach any other equipment to it.

Shown: HATCH NET 121:



4. TECHNICAL DATA

Applicable Standards:

Applicable Standards:

- ASTM B 117-Standard Test Method of Salt Spray (Fog) Testing
- ASTM D 714-Standard Test Method for Evaluating Degree of Blistering of Paints.
- ASTM D 1654-Standard Test Method for Evaluation of Painted or Coated Specimens.
- Subjected to Corrosive Environments
- ASTM D 2794-Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- ASTM D 3786-Standard Test Method for Hydraulic Bursting Strength of Knitted Goods for Nonwoven Fabrics - Diaphragm Bursting Strength Tester Method.
- ASTM D 4541-Method for Pulling Off Strength of Coatings Using Portable Adhesion - Testers.
- ASTM E 74-Practice for Calibration of Force Measuring Instruments for Verifying the Load Indication of Testing Machines.
- ASTM E 96-Test Methods for Water Vapor Transmission of Materials.

- ASTM G 53-Practice for Operating Light and Water Exposure Apparatus (Fluorescent). UV - condensation Type for Exposure of Nonmetallic Materials.

- ANSI A-10.11 Netting Specification
- OSHA 1910.144 Color Specification
- OSHA 1910.145 Label Specification
- OSHA 1926.105 Netting Test Specification
- NFPA Small Scale Test-Federal Test No. 191

Physical Properties Hatch Net

120: 1 1/2" diameter-Schedule 40 aluminum pipe slide rails, aluminum alloy 6061T6, Ultimate strength 18 KSI, yield 8 KSI, shear 12 KSI. Corner brackets cast aluminum ultimate tensile strength, 40 KSI, shear 27.45 KSI, minimum yield strength 18 KSI. Eye corner hooks-316 stainless steel.

Physical Properties Hatch Net

121: Extrusion and Rings - aluminum alloy 6061T6, ultimate tensile strength 18 KSI, yield 8 KSI, shear 12 KSI.

NETTING: Polyester, minimum breaking strength of 5,000 pounds. Each net will have a permanently attached label with the following information: name of manufacturer, identification of net material, date of manufacture, date of prototype test, and serial number.

Specification for the Hatch Net Products

5. INSTALLATION

The Hatch Net 120 and Hatch Net 121 safety system can be installed on any standard aluminum or steel floor access, roof hatch or custom sized framed opening.

The Hatch Net 120 and Hatch Net 121 safety system is factory assembled and ready for installation.

HATCH NET 120: Using the brackets as a guide, drill through hatch drainage channel and bolt with a 1/2" diameter stainless steel bolt and nylon lock nut. When fastening to concrete, use stainless steel wedge anchors. Before final assembly of nuts and washers, place silicone sealant on bolt threads. Repeat the process on all corners. When system is installed, connect all quick latches and install caution label to underside of hatch cover.

If the hatch has a pump removal system, check clearance between Hatch Net slide rod and upper guide rail brackets. When clearance is not obtainable with the slide rod brackets in a vertical position you may turn the slide rod brackets to a horizontal position to obtain proper clearance. Generally 4" from the bottom of the hatch net slide rods to the top of the guide rail brackets is sufficient.

HATCH NET 121: Install slide rails to drainage channel with the provided stainless steel bolts and nuts. Place and clamp safety net system in opening. Measure in three inches from both ends. Drill 9/16" holes. Place remaining bolts evenly spaced. 24" - 32" openings require two (2) 1/2" stainless steel bolts; 33"-45" openings require three (3) 1/2" stainless steel bolts; 46"-60" require four (4) 1/2" stainless steel bolts. (The aforementioned measurements refer to the side of the opening that will be the side the rails are installed on.) Install "Caution Label" to the underside of the door. If the net will be mounted onto concrete, install the slide rails to the concrete surface with the

provided stainless steel drop-in anchors. Pre-drill 11/16" holes in slide rail before clamping in place. Drill 5/8" diameter holes to a maximum depth of 2 1/4" in the concrete. Clean out holes. Insert stainless steel drop-in anchors flush with surface. To set the drop-in anchor: Insert setting tool into anchor body and hammer setting tool until drop-in anchor is seated. Put fixture in place. Insert bolt and tighten. Repeat process on remaining holes. Install "Caution Label" on underside of the door.

6. AVAILABILITY AND COST

Availability: Each safety net system is manufactured to each customer order and shipped within 2-4 weeks.

Cost: Price varies with size and/or model selected. Contact Safe Approach Inc. for complete information.

7. WARRANTY

Each safety system is guaranteed - for a period of one (1) year against defects in material and workmanship. Any modification to the system voids the manufacturer's warranty.

8. MAINTENANCE

Each safety net system should be inspected semi-annually by Owner.

9. TECHNICAL SERVICES

Further technical information may be obtained from Safe Approach Inc., call (800) 471-1157 or (207) 345-9900. Fax: (207) 345-9100 Visit our Website at www.safeapproach.com

