SecureRail™ & SecureLadder™ Fiberglass Handrail & Ladder Systems

MonaComposites

www.monacomposites.com

SecureRail™ Fiberglass Handrail Systems

Mona Composites SecureRail™ Fiberglass handrail systems offer the same corrosion resistant benefits as its molded
& pultruded grating products. Fabricated from pultruded components, fiberglass handrail systems are light weight, easy to install, corrosion resistant, & virtually maintenance free.

Mona Composites offers various styles of OSHA compliant handrail systems. These handrail systems can be customized to fit precise needs of a project specification. For industrial applications these handrail systems are available in TWO-RAIL or THREE-RAIL system with Kick Plate. Picketed handrail systems are also available for commercial and residential use. All handrail systems are designed to bear all prevalent building code loads. They can also be customized to carry extensive loads for special circumstances.

Low installation cost, minimal maintenance, ease of installation, and light weight makes fiberglass handrail systems a superior alternative to traditional metallic handrail systems.

Handrail is manufactured with both Isophthalic Polyester and/or Vinyl Ester resin. Standard color is YELLOW. Custom resins matrices and colors are available upon request.

Benefits:

- Light Weight
- Minimal Maintenance
- Corrosion Resistant
- Ease of installation
- Low Electrical Conductivity
- Impact Resistant
- High Strength

Applications

SecureLadder™ Fiberglass Ladder Systems

Mona Composites SecureLadder™ fiberglass ladders with or without cages for your specific needs. These ladders have been a commonly used for a long time throughout various industrial environments whether be a tank, building, and water or wastewater treatment plant.

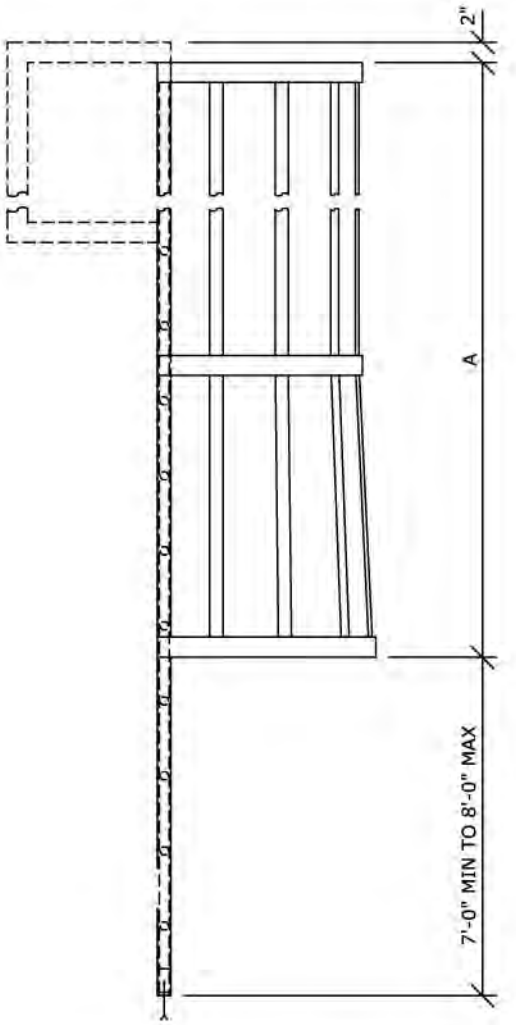
Standard ladders are 18" wide (inside dimension). Rungs are spaced at 12". Mona Composites can fabricate ladders per your project requirement for any length. All ladders are designed and fabricated to meet OSHA requirements. Ladders can be shipped fully assembled or in sections to save on freight. Cage components are preferably shipped in a kit for field assembly to avoid bulky damaged shipments. Cage components are predrilled for easy field assembly.

All ladder components are fabricated from pultruded components. Rails are made from pultruded square tube. Rungs are made from fluted round tube to provide non-skid surface. Resin system for standard ladders is Isophthalic polyester. Color is yellow. Custom resin matrices and colors are available upon request.

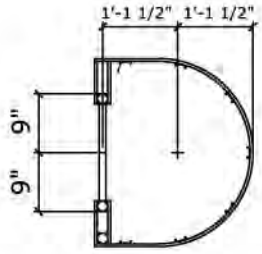
Benefits:

- Light Weight
- Minimal Maintenance
- Corrosion Resistant
- Ease of installation
- Low Electrical Conductivity
- Impact Resistant
- High Strength

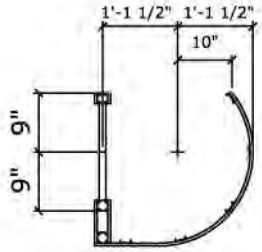
Standard Details:



STANDARD LADDER WITH CAGE



WALK-THRUOGH



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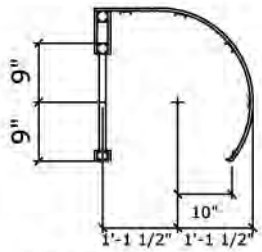
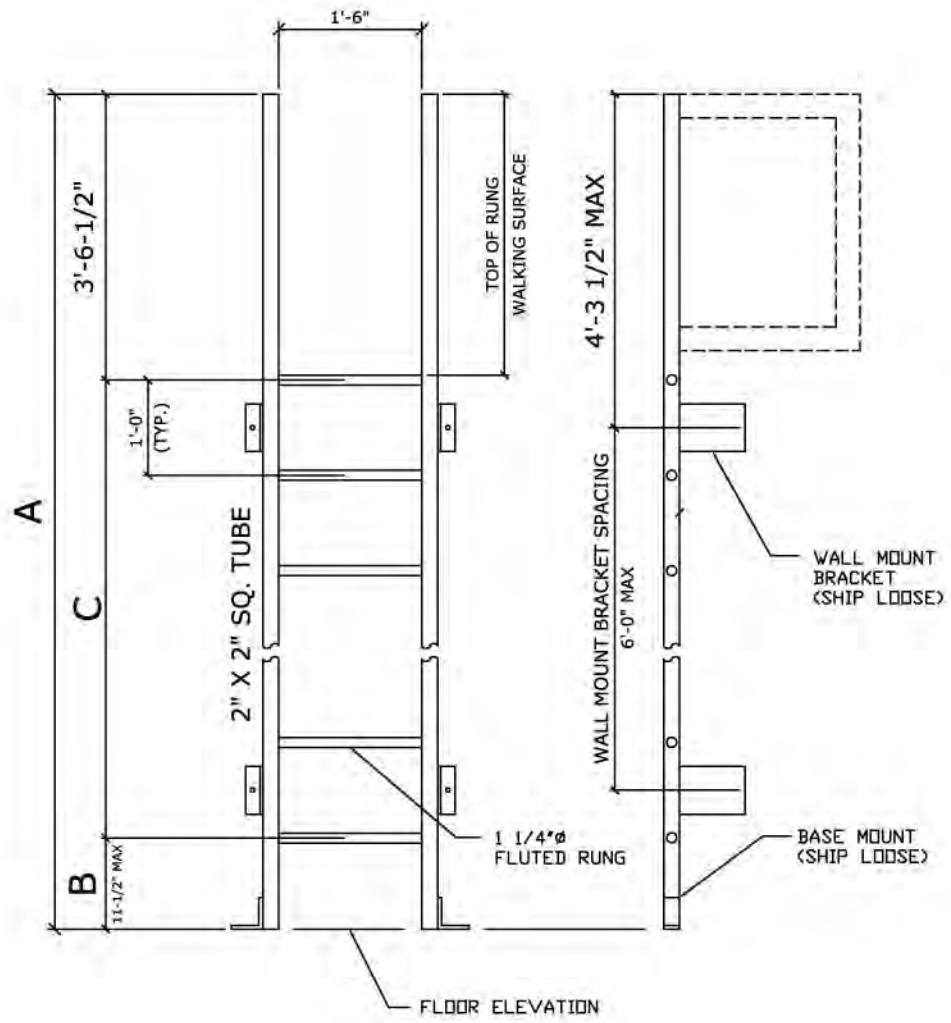
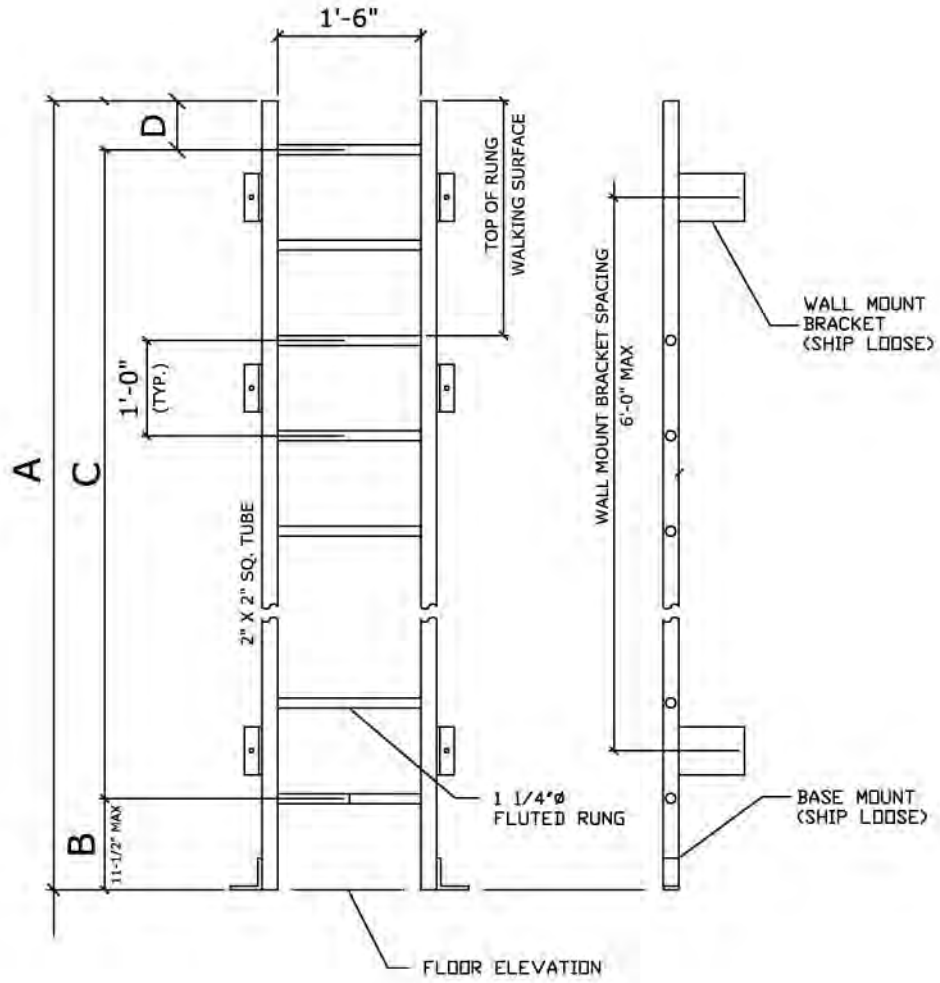


LEFT ACCESS

OPTIONS TO SELECT RIGHT, LEFT OR WALK-THRUOGH ACCESS



STANDARD WALK-THRUOGH LADDER (WITH BASE CLIP)



STANDARD LADDER (WITH BASE MOUNT)

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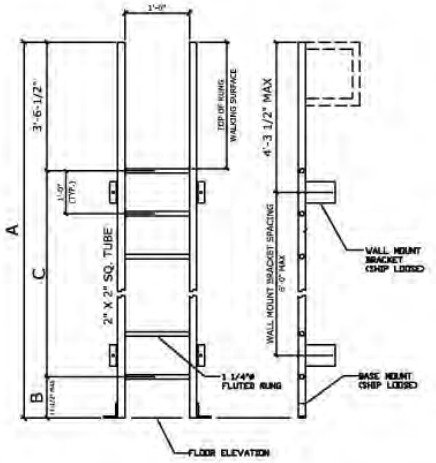

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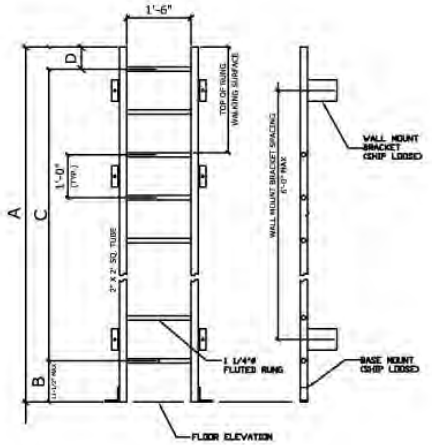
(WITH BASE CLIP)



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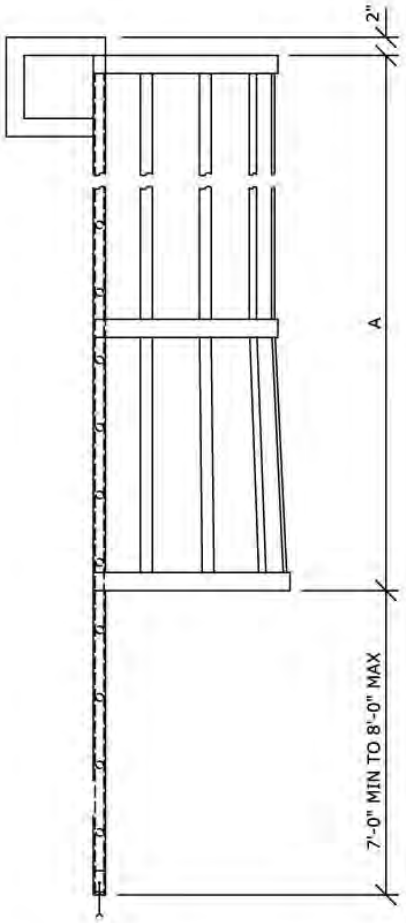
(WITH BASE MOUNT)



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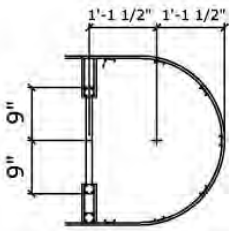

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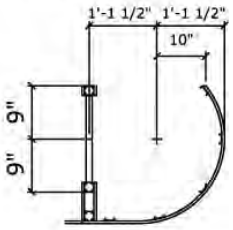

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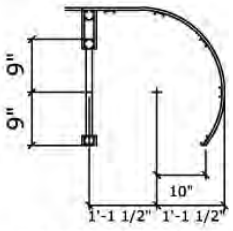

LEFT ACCESS

OPTIONS TO SELECT RIGHT, LEFT OR
WALK-THRUOGH ACCESS

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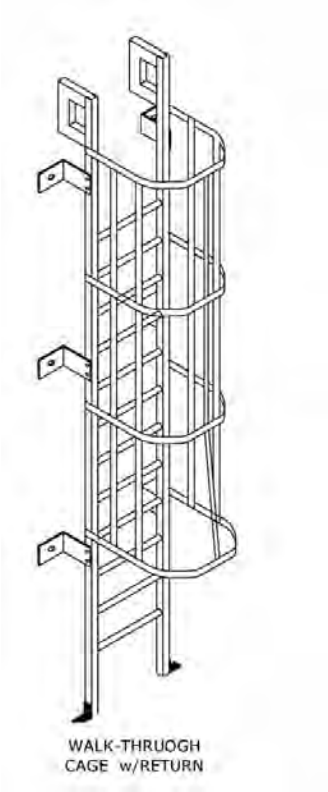
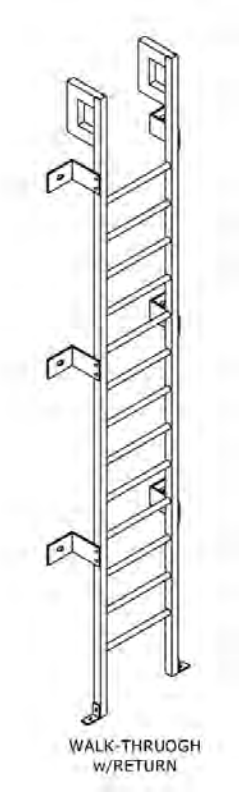
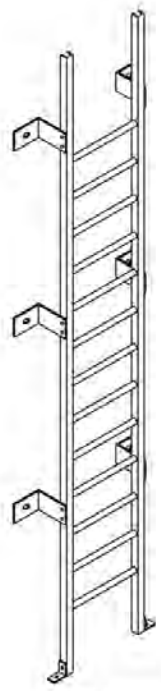


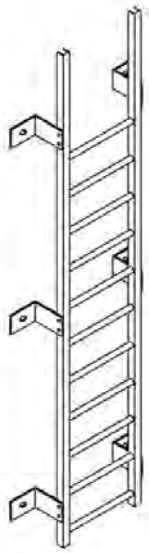
WALK-THRUOGH
CAGE w/RETURN



WALK-THRUOGH
w/RETURN



FLOOR MOUNT



WALL MOUNT

Chemical Resistance Chart

CHEMICAL ENVIRONMENT	% CONCENTRATION	TEMPERATURE	POLYESTER	ISOPHTHALIC	VINYLESTER
Acetic Acid	50	MAX	NR	NR	R
Acetone	100	75	NR	NR	NR
Alcohols	100	120	NR	NR	NR
Alum	ALL	MAX	R	NR	120
Aluminum Chloride	ALL	MAX	NR	NR	120
Aluminum Fluoride	20	75	SS	SS	R
Ammonium Hydroxide	30	75	NR	NR	R
Ammonium Salts-Neutral	ALL	120	R	R	R
Ammonium Salts-Aggressive	ALL	75	SSI	SSI	SSF
Aromatic Solvents	ALL	75	NR	NR	TEST
Barium Salts	ALL	MAX	R	R	R
Benzene	100	140	NR	SSI	SSI
Black Liquor (Pulp Mill)	ALL	MAX	NR	SSI	R
Bleach Liquor (Pulp Mill)	ALL	MAX	NR	SSI	R
Calcium Hydroxide	25	MAX	SSI	SSF	R
Calcium Hypochlorite	ALL	MAX	NR	SSI	R
Calcium Salts	ALL	MAX	R	R	R
Carbon Tetrachloride	100	75	NR	SSI	R
Chlorinated Hydrocarbons	100	75	TEST	TEST	TEST
Chlorine Dioxide	SAT	140	NR	NR	R
Chlorine Water	SAT	120	TEST	SSI	R
Chlorine, Wet	SAT	MAX	NR	NR	R
Chlorobenzene	100	75	NR	NR	SSF
Chlorobenzene	ALL	Up to 100	NR	NR	R
Chloroform	100	75	NR	NR	NR
Chromic Acid	50	140	NR	SSF	SSF
Citric Acid	ALL	MAX	R	R	R
Copper Cyanide Plating	ALL	125	SSI	SSF	R
Copper Salts	ALL	MAX	R	R	R
Crude Oil (Sweet or Sour)	ALL	MAX	R	R	R
Dichlorobenzene	100	75	NR	NR	NR
Ethers		75	NR	NR	NR
Ferric Chloride	100	MAX	R	R	R
Ferric Salts	ALL	MAX	R	R	R
Fluoride Salts+HCl	ALL	75	NR	SSF	R
Fluosilicic Acid	10	75	SSF	SSF	R
Formaldehyde	37	150	SSI	SSI	R
Formic Acid	25	100	SSI	SSF	R
Fuel (Diesel, Jet, Gasoline)	ALL	100	R	R	R
Glycerine	100	MAX	R	R	R
Green Liquor (Pulp Mill)	ALL	MAX	NR	NR	R
Hydrobromic Acid	48	MAX	NR	SSF	SSF
Hydrochloric Acid	10	MAX	NR	NR	R
Hydrochloric Acid	30	MAX	NR	NR	R
Hydrochloric Acid (concentrated)	ALL	Up to 180	NR	NR	SSI
Hydrocyanic Acid	ALL	MAX	NR	NR	R
Hydrofluoric Acid	20	75	NR	NR	SSF
Hydrogen Peroxide	30	75	NR	R	R
Lactic Acid	100	MAX	NR	R	R
Lime Slurry	SAT	MAX	R	R	R
Lithium Chloride	AT	MAX	NR	NR	NR
Lithium Salts	ALL	MAX	R	R	R
Magnesium Salts	ALL	MAX	R	R	R
Maleic Acid	100	MAX	NR	SSF	R
Mercury Chloride	100	MAX	R	R	R
Nickel Salts	ALL	MAX	R	R	R
Nitric Acid	20	120	SSI	SSF	R
Nitric Acid	35	100	NR	NR	R
Nitric Acid	40	Ambient	NR	NR	SSI
Nitric, Hydrofluoric	20:2	75	NR	NR	SSI
Nitrous Acid	10	75	R	R	R
Ozone for Sewage Treatment		100	R	R	R
Phenol	10	75	NR	NR	R
Phenol	88	Ambient	NR	NR	SSF
Phosphoric Acid	85	MAX	SSF	R	R
Phosphoric Acid, Super	115	MAX	TEST	SSI	R
Potassium Hydroxide	10	120	NR	SSI	R
Potassium Salts	ALL	MAX	R	R	R
Silver Nitrate	100	MAX	R	R	R
Sodium Cyanide	ALL	75	R	R	R
Sodium Hydroxide	50	MAX	NR	NR	120
Sodium Hydroxide	10	MAX	NR	NR	120
Sodium Hypochlorite (Stable)	10	100	SSI	SSF	R
Sodium Salts-Neutral	ALL	MAX	R	R	R
Sodium Salts-Aggressive	ALL	75	TEST	SSI	SSF
Sulfur Dioxide	SAT	MAX	NR	NR	R
Sulfuric Acid	25	MAX	NR	R	R
Sulfuric Acid	50	MAX	NR	NR	NR
Sulfuric Acid	75	100	NR	SSI	R
Toluene	100	120	NR	SSI	SSF
Trichloroethane1,1,1	ALL	75	NR	SSI	SSF
Trisodium Phosphate	50	MAX	SSI	SSI	R
Water (Fresh, Salt, Moderate D.I.)	100	MAX	R	R	R
Wet Chlorine/Hydrochloric Acid	10-20	Up to 350	NR	NR	SSF
White Liquor (Pulp Mill)	ALL	MAX	NR	NR	R
Zinc Chloride Plating	ALL	75	NR	SSF	R
Zinc Salts	100	MAX	R	R	R

NR = NOT RESISTANT R = RESISTANT SSI = SPLASHES & SPILLS INFREQUENT SSF = SPLASHES & SPILLS FREQUENT TEST = TEST ON PRODUCT

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