SECTION 13 44 13

MEZZANINE AND RACK SYSTEM SAFETY GATES

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\*\* NOTE TO SPECIFIER \*\* Garlock Safety Systems; Mezzanine / Rack System safety gates and guardrail products.
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This section is based on the products of Garlock Safety Systems, which is located at:
2601 Niagara Ln.
Plymouth, MN 55447
Toll Free Tel: 877-791-4446
Tel: 763-694-2614
Fax: 763-553-1093
Email:[request info (sales@garlockequip.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Garlock+Safety+Systems&coid=43032&rep=&fax=763-553-1093&message=RE:%20Spec%20Question%20(05522gar):%20%20&mf=)
Web:[garlocksafety.com](http://garlocksafety.com)
[[Click Here](http://www.arcat.com/arcatcos/cos43/arc43032.html)] for additional information.
Since 1959, Garlock Equipment Company has been recognized as the leading manufacturer of quality roofing equipment for the commercial flat-industrial roofing market in addition to a line of Fall Protection products used by industrial clients. Located in Plymouth, Minnesota, Garlock's 77,000 sq. ft. manufacturing facility features a highly skilled workforce utilizing many of the latest technology based machining centers used in the manufacture of our products. Garlock has also been recognized as the leading innovator of industrial tools that contractors use every day to build their business and protect their client's building assets.
This specification includes LedgeGuard Mezzanine Safety Gate System and Rollback Safety Bay Gate systems.
LedgeGuard Mezzanine Safety Gate System to protect materials handling workers. The LedgeGuard Mezzanine Safety Gate System meets or exceeds all OSHA requirements for fall protection railings. The system can be installed quickly with the strength and security that comply with OSHA requirements.
Rollback Safety Bay Gate System is designed to fit within standard and custom racking systems and protect elevated access points for material loading and unloading. Easy-to-use and install. Protects without hindering productivity. Two-gate system means one gate is always closed and OSHA compliant fall protection is in place.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project. Add others as required.

* + 1. LedgeGuard elevated access protection.
		2. Rollback Safety Gates.
		3. Pallet Flow Gates.
		4. SentryGuard single opening and split opening gate systems.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. Section 05 52 17 - Safety Railings.
		2. Section 11 13 33 - Loading Dock Fall Protection.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. OSHA 29 CFR 1910.29. - Guarding floor and wall openings and holes.
		2. ANSI MH28.3 - Design, Manufacture, and Installation of Industrial Steel Work Platforms
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.
		3. Shop Drawings: Complete details of entire mezzanine gate layout, showing member sizes and part identification, fasteners, anchors, fittings and evidence of compliance with structural performance requirements.
	2. QUALITY ASSURANCE
		1. Manufacturer Qualifications: minimum of 30 years experience manufacturing portable railing systems.
		2. Installer Qualifications: 2 person crew capable of positioning and installing fall protection system according to manufacturers instructions.
	3. DELIVERY, STORAGE, AND HANDLING
		1. Store and maintain products in accordance with the manufacturer's printed recommendations.
1. PRODUCTS
	1. MANUFACTURERS

A.Acceptable Manufacturer: Garlock Equipment Company; 2601 Niagara Ln, Plymouth, MN 55447. ASD. Toll Free Tel: (877) 971-4446. Phone: (763) 694-2614. Fax: (763) 553-1093. Email:sales@garlockequip.comWeb: http://garlocksafety.com
\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	1. DESIGN REQUIREMENTS
		1. Structural Performance: Comply with requirements of applicable local, state, and federal codes.
		2. Structural performance of top gate rails and supports:
			1. Capable of withstanding a concentrated load of 200 pounds (90.6 kg), applied to the top rail at any point and in any direction.
		3. Structural performance of railing infill:
			1. Capable of withstanding a horizontal concentrated load of 200 pounds (90.6 kg), applied to one foot (30.5mm) square area at any point on the infill.
			2. Infill includes panels, intermediate rails, posts and other elements.
			3. Design need not provide for infill loads to be applied concurrently with top rail loading.
	2. EQUIPMENT
		1. Garlock LedgeGuard Mezzanine Safety Gate System: Two-gate system for protecting elevated access points during material loading and unloading.
			1. Meets OSHA 1910.23(c)
			2. Rails: 1-5/8 inch (41 mm) HREW steel tubing.

\*\* NOTE TO SPECIFIER \*\* Select from the following available standard gate depth. Custom depths are available, contact Garlock for additional information.

* + - 1. Depth: 63 inches (1600 mm).
			2. Height: 42 inches (1067 mm).
			3. Width: **[57 inches] [Custom width].** Gates 70 inches and wider require additional damper.
			4. Mid-rail: weld to posts at 21 inches (533 mm) below top rail.

\*\* NOTE TO SPECIFIER \*\* Select one of the following optional paragraph if required and delete if not required.

* + - 1. Options: **[Toeboard] [Ground Pole]**.
			2. Holes: Holes for permanent mounting and securing base.
			3. Finish: Epoxy powder coated safety yellow.
		1. Rollback Safety Bay Gate System: Fixed gate sits within standard and custom racking systems to protect elevated access points for material loading and unloading. Two-gate system ensures one gate is always closed.
			1. Meets OSHA 1910.23(a)(8) and ANSI 6.4.3.
			2. Heavy duty chains and roller tracks.
			3. Counteracting gates
			4. Adjustable chains.
			5. Overall Height: 106 inches (2692 mm) high.
			6. Overall Length: 60 inches (1524 mm) long.
			7. Fixed Gate Width: **[6060 Gate - 60 inches (1524 mm) wide] [6072 Gate - 76 inches (1930 mm) wide] [60126 Gate - 126 inches (3200 mm) wide]**.
			8. Top Rail Height: 42 inches (1067 mm0.
			9. Lower Rail Height: 20 inches (508 mm).
			10. Finish: Epoxy powder coated safety yellow.

\*\* NOTE TO SPECIFIER \*\* Select from the following available standard gate sizes. Custom sizes are available. Contact Garlock for additional information.

* + 1. Rollback Safety Gate: Free-standing gate to protect elevated access points for material loading and unloading. Two-gate system ensures one gate is always closed.
			1. Meets OSHA 1910.23(c) and ANSI 6.4.3.
			2. Heavy duty chains and roller tracks.
			3. Counteracting gates
			4. Adjustable chains.
			5. Overall Height: 106 inches (2692 mm) high.
			6. Overall Length and Width: **[6060 Gate: 70 inches long, 70 inches wide] [7260 Gate: 82 inches long, 70 inches wide] [9660 Gate: 106 inches long, 70 inches wide] [10860 Gate: 118 inches long, 70 inches wide] [60102 Gate: 70 inches long, 112 inches wide] [72102 Gate: 82 inches long, 112 inches wide] [96102 Gate: 106 inches long, 112 inches wide] [108102 Gate: 118 inches long, 112 inches wide].**
			7. Top Rail Height: 42 inches (1067 mm).
			8. Lower Rail Height: 20 inches (508 mm).
			9. Finish: Epoxy powder coated safety yellow.

\*\* NOTE TO SPECIFIER \*\* Select from the following available standard gate sizes. Custom sizes are available. Contact Garlock for additional information.

* + 1. Pallet Flow Gates: Self-closing control gates, bolt to existing industrial racking for one-way flow of pallets.
			1. Meets OSHA 1910.23(a).
			2. Gate Opening: **[single] [double].**
			3. Heavy duty spring closer.
			4. Finish: Epoxy powder coated safety yellow.
		2. SentryGuard: Open loading dock and mezzanine fall protection, manual or pneumatic operation, single gate or split gates.
			1. Meets OSHA 1910.23(c).
			2. Rails: 1-3/4 inch (44.5 mm) O.D. by 0.083 inch (2 mm) wall EWSQT tubing.
			3. Length: **[Standard 12 feet] [Custom length (specify)]**.

\*\* NOTE TO SPECIFIER \*\* Select from the following available standard gate lengths. Custom lengths are available, contact Garlock for additional information. Delete lengths not required.

* + - 1. Standard Single Opening Style: Overall Length: 125.5 inch (3188 mm) fits 8 foot overhead door - opens right or left. Open height 161 inches (4089 mm).
			2. Standard Split Opening Style: Overall Length: 154 inch (3912 mm) fits 12 foot (3.66 m) dock - opens half the length to the right and half the length to the left. Open height 109 inches (2769 mm).
			3. Custom Single Opening Style: Overall Length: minimum 65.5 inches (1664 mm) up to maximum 110 inches (2794 mm). Overall length equals rough opening plus 29.5 inches (749 mm). Open height equals rough opening plus 65 inches (1651 mm).
			4. Custom Split Opening Style: Overall Length: minimum 106 inches (2692 mm) up to maximum 240 inches (6096 mm) overall length equals rough opening plus 10 inches (254 mm). Open height equals one-half rough opening plus 37 inches (940 mm).
			5. Height: 42 inches (1067 mm).
			6. Mid-rail: 21 inches (533 mm) below top rail.
			7. Operation: **[Manual] [Pneumatic]**.

\*\* NOTE TO SPECIFIER \*\* Select from the following available standard gate types. Delete type not required.

* + - 1. Single Opening Pneumatic Operation: Dual gas assist struts with positive locking mechanism to hold gate fully open or closed. Can be installed to open to right or left. Can be padlocked.
			2. Split Opening Cantilevered Pneumatic Operation: Dual gas assist struts with positive locking mechanism to hold gate fully open or latched closed in the center. Can be padlocked.
			3. Finish: **[Epoxy powder coated safety yellow] [Hot dipped galvanized]** **[Architect specified custom powder coat color]**.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions.
		2. Before installation, inspect all parts to insure no damaged parts are used.
		3. Railing must be secured to base with bolts indicated on the shop drawings.
		4. Anchor base mounts to concrete substrate with expansion bolts or to steel edge angles with appropriate anchors bars.
	4. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION