SECTION 11 13 00

LOADING DOCK EQUIPMENT

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Marvel Equipment Corporation; Loading Dock Seals and Shelters.
This section is based on the products of Marvel Equipment Corporation, which is located at:910 Fountain Pkwy.Grand Prairie, TX 75050Tel: 705-503-9595Email: [request info (sales@marvelequipmentcorp.com)](https://arcat.com/rfi?action=email&company=Marvel%252BEquipment%252BCorporation&message=RE%253A%2520Spec%2520Question%2520(11300mve)%253A%2520&coid=54048&spec=11300mve&rep=&fax=)
Web: <https://www.marvelequipmentcorp.com>

Canada:
1 Reid Drive Unit 4;
 Barrie, Ontario L4N 9L5

 [ [Click Here](https://arcat.com/company/marvel-equipment-corporation-54048) ] for additional information.

A variety of loading dock seals and shelters to help outfit any of your loading dock positions.

Custom applications available.
Contact our knowledgeable sales team to help with your design process.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete products below not required for project.

* + 1. Loading dock equipment of the following types:
			1. Dock seals.
			2. Dock shelters.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any Sections below not relevant to this project; add others as required.

* + 1. Section 03 30 00 - Cast-in-Place Concrete.
		2. Section 05 50 00 - Metal Fabrications.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: For each product specified. Indicate unit dimensions, method of anchorage, and details of construction. Indicate materials and finish, installation details, roughing-in measurements, and operation of unit.
		3. Shop Drawings:
			1. Indicate required opening dimensions, tolerances of opening dimensions, placement dimensions, and perimeter conditions of construction.
		4. Assurance/Control Submittals:
			1. Certificates: Manufacturer's certificate that Products meet or exceed specified requirements.
			2. Qualification Documentation: Submit documentation of experience indicating compliance with specified qualification requirements.
	2. QUALITY ASSURANCE
		1. Manufacturer Qualifications:
			1. Specializing in manufacturing Products specified with 30 years' experience.
			2. Quality assurance improvement programs.
			3. Manufacturer must be associated with Loading Dock Equipment Manufacturers (LODEM).
		2. Installer Qualifications: Company specializing in performing the Work of this Section with minimum 5 years' experience.
	3. DELIVERY, STORAGE, AND HANDLING
		1. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards. Store materials within absolute limits for temperature and humidity recommended by manufacturer. Protect from damage.
		2. Store products in manufacturer's labeled packaging until ready for installation.
	4. WARRANTY

\*\* NOTE TO SPECIFIER \*\* Consult manufacturer for full details on warranty information and product registration.

* + 1. Warranty: Provide manufacturer's standard warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Marvel Equipment Corporation, which is located at:910 Fountain Pkwy.Grand Prairie, TX 75050Tel: 705-503-9595Email: [request info (sales@marvelequipmentcorp.com)](https://arcat.com/rfi?action=email&company=Marvel%252BEquipment%252BCorporation&message=RE%253A%2520Spec%2520Question%2520(11300mve)%253A%2520&coid=54048&spec=11300mve&rep=&fax=);Web: <https://www.marvelequipmentcorp.com>
		2. Canadian Address: 1 Reid Dr. Unit 4, Barrie, ON, Canada L4N 9L5.

\*\* 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 the provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. DOCK SEALS

\*\* NOTE TO SPECIFIER \*\* The most effective seal and the most economical solution for 8 feet to 9 feet (2.4 to 2.7 m) high doors. Delete dock seal paragraphs not required.

* + 1. Dock Door Seal: Model M100 Fixed Head Pad as manufactured by Marvel Equipment Corporation.
			1. Type: Fixed Head Pad Truck Dock Seal.
				1. Compression dock seals with foam-filled head and side pads.

\*\* NOTE TO SPECIFIER \*\* 40 oz weight is standard. Delete fabric weights and color options not required.

* + - * 1. Cover Fabric Weight: 22 oz vinyl.
				2. Cover Fabric Weight: 40 oz vinyl.
				3. Cover Fabric Weight: 50 oz vinyl.
				4. Color: \_\_\_\_\_\_.
				5. Color: As determined by the Architect.
				6. Color: As detailed on the Drawings.
				7. Unit projection \_\_ inches (\_\_ mm).

\*\* NOTE TO SPECIFIER \*\* 6 inch (152 mm) exposure is standard. Delete exposure size not required.

* + - * 1. Exposure on Vertical Wear Pleats: 4 inches (102 mm).
				2. Exposure on Vertical Wear Pleats: 6 inches (152 mm).
				3. Exposure on Vertical Wear Pleats: 8 inches (203 mm).
				4. Wear Pleat Fabric Weight: 22oz Vinyl.
				5. Wear Pleat Fabric Weight: 40oz Vinyl.
				6. Wear Pleat Fabric Weight: 50oz Vinyl.
				7. Wear Pleat Fabric Weight: X-Treme 65.
			1. Construction: Polyurethane foam core with 98 percent memory. Maintains flexibility at minus 40 degrees F (minus 40 degrees C).
				1. Foam Core: Continuously bonded to kiln dried treated lumber backing with high quality nonflammable adhesive.
				2. Head Pad: Fixed type.

\*\* NOTE TO SPECIFIER \*\* Delete size option not required.

Size (WxHxD): 119 x 12 x 10 inches (3023 x 305 x 250 mm).

To suit a variety of trucks from 144 to 156 inches (3650 to 3960 mm) high.

Size (WxHxD): 119 x 18 x 10 inches (3023 x 457 x 250 mm).

For sealing trailers up to 162 inches (4115 mm).

* + - * 1. Side Pads (HxWxD): 96 x 12 x 10 inches (2438 x 305 x 250 mm).

Yellow Guide Stripe (WxH): 4 x 24 inch (100 x 610 mm).

* + - * 1. Overlapping Wear Pleats: Applied to side pads.

Size: 11-1/2 x 10 inches (292 x 250 mm).

* + - * 1. Included mounting hardware to be galvanized steel.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features and accessories not required.

* + - * 1. Additional Projection up to 16 inches (406 mm): \_\_\_\_\_\_.
				2. Removeable/Replaceable Wear Pleats.
				3. Marvel Upgrade on Wear Pleats.
				4. Header Drop Curtain with Velcro: 12 inches (305 mm).
				5. PVC Drop Curtain: 12 inches (305 mm).
				6. Header flaps across the entire width of head pad.
				7. Bottom flaps on verticals; each side.
				8. Skid Guards on Verticals, Pair: 48 inches (1219 mm) high.
				9. Full height yellow guide stripe.
				10. Pressure-treated lumber.
				11. Wood build-out per inch.
				12. Fabric rain shroud.
				13. Soft foam.
				14. Galvanized steel backer.
				15. Fire retardant fabric.
				16. Fire retardant foam.

\*\* NOTE TO SPECIFIER \*\* Provides an effective seal and the most economical solution for door sizes 10 feet (3 m) and higher.

* + 1. Dock Door Seal: Head Curtain as manufactured by Marvel Equipment Corporation.
			1. Type: Model M200 Head Curtain Loading Dock Seal as Manufactured by Marvel Equipment Corporation.
				1. Compression dock seals with curtain style head member and foam filled side pads.

\*\* NOTE TO SPECIFIER \*\* 40 oz weight is standard. Delete fabric weight and color options not required.

* + - * 1. Cover Fabric Weight: 22 oz vinyl.
				2. Cover Fabric Weight: 40 oz vinyl.
				3. Cover Fabric Weight: 50 oz vinyl.
				4. Color: \_\_\_\_\_\_.
				5. Color: As determined by the Architect.
				6. Color: As detailed on the Drawings.
				7. Unit Projection (inch/mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* 6 inch (152 mm) exposure is standard. Delete exposure size not required.

* + - * 1. Exposure on Vertical Flaps: 4 inches (102 mm).
				2. Exposure on Vertical Flaps: 6 inches (152 mm).
				3. Exposure on Vertical Flaps: 8 inches (203 mm).
				4. Wear Pleat Fabric Weight: 22oz Vinyl.
				5. Wear Pleat Fabric Weight: 40oz Vinyl.
				6. Wear Pleat Fabric Weight: 50oz Vinyl.
				7. Wear Pleat Fabric Weight: X-Treme 65.
			1. Construction: Polyurethane foam core; 98 percent memory. Unaffected by moisture, heat or cold. Maintains flexibility at minus 40 degrees F (minus 40 degrees C).
				1. Foam Core: Continuously bonded to kiln dried Treated lumber backing with high quality nonflammable adhesive.
				2. Head Curtain: Adjustable type.

Curtain Drop: 24 inches (610 mm).

Rope and Pulley System: To seal a wide range of trucks ranging from 144 to 162 inches (3657 to 4110 mm) high.

* + - * 1. Side Pads (WxD): 12 x 10 inches (305 x 250 mm).

Yellow Guide Stripe (WxH): 4 x 24 inch (100 x 610 mm).

* + - * 1. Overlapping Wear Pleats: Applied to side pads.

Size: 11-1/2 x 10 inches (292 x 250 mm).

* + - * 1. Included mounting hardware to be galvanized steel.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required.

* + - * 1. Additional Projection up to 16 inches (406 mm): \_\_\_\_\_\_.
				2. Additional Drop in Head Curtain (inch/mm): \_\_\_\_\_\_.
				3. Wood Build Out (inch/mm): \_\_\_\_\_\_.
				4. Removeable/Replaceable Wear Pleats.
				5. Marvel Upgrade on Wear Pleats.
				6. Fixed Head Curtain.
				7. Foam in non-Adjustable Head Curtain.
				8. PVC Drop Curtain: 8 inches (203 mm) Low Temp c/w 2 inches (51 mm) O/L.
				9. Galvanized steel backer.
				10. Skid Guards on Verticals, Pairs: 48 inches (1219 mm) high.
				11. Competitive split head curtain.
				12. Velcro split head curtain.
				13. Split Velcro Head Curtain: 1/2 foam face.
				14. Split Velcro Head Curtain: Full foam face.
				15. Full Yellow Guide Stripe.
				16. Pressure-Treated Lumber.
				17. Soft foam.
				18. Fire-retardant fabric.
				19. Fire-retardant foam.
		1. Dock Door Seal: Adjustable Inflatable as manufactured by Marvel Equipment Corporation.
			1. Type: Model M350 Adjustable Inflatable Loading Dock Seal.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 17 oz vinyl is standard for header and 22 oz vinyl is standard for vertical air bags. Delete cover fabric weights and fabric weight on vertical air bags and color options that are not required.

* + - * 1. Cover Fabric Weight on Header Air Bag: 17 oz vinyl.
				2. Cover Fabric Weight on Vertical Air Bags: 22 oz.
				3. Color: \_\_\_\_\_\_.
				4. Color: As determined by the Architect.
				5. Color: As detailed on the Drawings.
			1. Fits Door Sizes up to and Including (WxH) 8 x 10 ft (2438 x 3048 mm).
				1. Header Unit (Width x Projection x Drop): 116 x 28 x 50 inches (2944 x 710 x 1270 mm).
				2. Vertical Air Units (High x Projection x Width): 124 x 14 x 10 inches (3147 x 355 x 254 mm) with 4 inch (100 mm) bottom flap.

Yellow Guide Stripe (WxH): 4 x 24 inch (100 x 610 mm).

* + - * 1. Backing: Pressure-Treated Lumber.
				2. Inflate Mechanism; Motor and Blower Assembly: 1/2 HP (0.37 kW).
				3. Mounting hardware for standard brick wall.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required. Fill in blanks per inch (25 mm) as required.

* + - * 1. Additional Height in Verticals: \_\_\_\_\_\_.
				2. Additional Drop in Head Bag: \_\_\_\_\_\_.
				3. Galvanized steel head frame.
				4. Additional projection 18 inch (457 mm).
				5. Additional projection 22 inch (558 mm).
		1. Dock Door Seal: Adjustable Head Pad as manufactured by Marvel Equipment Corporation.
			1. Type: Model M300 Adjustable Head Pad Loading Dock Seal.
				1. Compression dock seals with foam-filled head and side pads.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 40 oz weight is standard. Delete fabric weights color options not required.

* + - * 1. Cover Fabric Weight: 22 oz vinyl.
				2. Cover Fabric Weight: 40 oz vinyl.
				3. Cover Fabric Weight: 50 oz vinyl.
				4. Color: \_\_\_\_\_\_.
				5. Color: As determined by the Architect.
				6. Color: As detailed on the Drawings.
				7. Unit projection \_\_ inches (\_\_ mm).

\*\* NOTE TO SPECIFIER \*\* 6 inch exposure is standard. Delete exposure size not required.

* + - * 1. Exposure on Vertical Flaps: 4 inches (102 mm).
				2. Exposure on Vertical Flaps: 6 inches (152 mm).
				3. Exposure on Vertical Flaps: 8 inches (203 mm).
				4. Wear Pleat Fabric: 22oz Vinyl.
				5. Wear Pleat Fabric: 40oz Vinyl.
				6. Wear Pleat Fabric: 50oz Vinyl.
				7. Wear Pleat Fabric: X-Treme 65.
			1. Construction: Polyurethane foam core; 98 percent memory. Unaffected by moisture, heat or cold. Maintains flexibility at minus 40 degrees F (minus 40 degrees C).
				1. Foam Core: Continuously bonded to kiln dried lumber backing with high quality nonflammable adhesive.
				2. Head Pad: Adjustable.

Size (Height x Projection x Width): 12 x 10 x 96 inches (305 x 254 x 2440 mm).

Raised and lowered in 2 inch (51 mm) track by an oil tempered retractable torsion spring system. Travel: 36 inch (914 mm).

Truck Height Range: 132 to 162 inches (3353 to 4115 mm).

* + - * 1. Side Pads (Width x Projection x Height): 12 x 10 x 120 inches (305 x 254 x 3050 mm).

Yellow Aiming Stripe (WxH): 4 x 24 inch (100 x 610 mm).

Overlapping Flaps (WxH): 11-1/2 x 10 inches (292 x 254 mm) with 6 inch (152 mm) minimum exposure. Applied to side pads.

* + - * 1. Torsion Spring: Covered by galvanized steel protective canopy.

Dimensions (DxW): 5 x 120 inches (127 x 3050 mm).

* + - * 1. Included mounting hardware to be galvanized steel.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required.

* + - * 1. Additional Projection up to 16 inches (406 mm): \_\_\_\_\_\_.
				2. Removeable/Replaceable wear pleats.
				3. Marvel upgrade on wear pleats.
				4. Wood Build-Out: \_\_\_\_ inches (\_\_\_ mm): \_\_\_\_\_.
				5. 48 inches (1219 mm) travel in head pad.
				6. Bottom flaps on verticals (each side).
				7. 48 inches (1219 mm) high skid guards on verticals (pair).
				8. Full height yellow guide stripe.
				9. Pressure-treated lumber.
				10. Soft foam.

\*\* NOTE TO SPECIFIER \*\* The L-Shaped Pad construction solves the dilemma of providing a good seal versus providing full access. Marvel's L-Shaped Pad model offers the sealing capability of a compression seal with the versatility of a truck shelter, while at the same time eliminating any pressure on the building wall and providing complete full access to the trailer. Designed for door openings 10 feet by 10 feet (3 m by 3 m) or smaller. Note: L-Shaped pads must have 15 feet (4572 mm) clearance from bottom of header to ground.

* + 1. Dock Door Seal: Full Access as manufactured by Marvel Equipment Corporation.
			1. Type: Model M700 Full Access Loading Dock Seal.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 22 oz vinyl is standard for cover fabric weight. Delete cover fabric weights and wear pleat fabric weights and color options not required.

* + - * 1. Cover Fabric Weight: 22 oz vinyl.
				2. Wear Pleat Fabric Weight: 22 oz vinyl.
				3. Wear Pleat Fabric Weight: 40 oz vinyl.
				4. Wear Pleat Fabric Weight: 50 oz vinyl.
				5. Wear Pleat Fabric Weight: X-Treme 65.
				6. Color: \_\_\_\_\_\_.
				7. Color: As determined by the Architect.
				8. Color: As detailed on the Drawings.

\*\* NOTE TO SPECIFIER \*\* 6 inch (152 mm) exposure is standard. Delete exposure size not required.

* + - * 1. Exposure Size on Vertical Wear Pleats: 4 inches (102 mm).
				2. Exposure Size on Vertical Wear Pleats: 6 inches (152 mm).
				3. Exposure Size on Vertical Wear Pleats: 8 inches (203 mm).
			1. Construction: Polyurethane foam core; 98 percent memory. Unaffected by moisture, heat or cold. Maintains flexibility at minus 40 degrees F (minus 40 degrees C).
				1. Foam Core: Continuously bonded to kiln dried lumber backing with high quality nonflammable adhesive.
				2. Head Curtain: Velcro-split adjustable.

Drop: 30 inches (762 mm).

Rope and Pulley System: To seal a wide range of trucks ranging from 144 to 162 inches (3658 to 4115 mm) on a typical 48 inch (1219 mm) dock height.

* + - * 1. Side Pads: Foam.

Size (HxWxProjection): 126 x 20 x 16 inches (3200 x 508 x 406 mm).

Yellow Guide Stripe (WxH): 4 x 24 inches (100 x 610 mm).

* + - * 1. Fit Standard Door Size (WxH): 120 x 120 inches (3048 x 3048 mm).
				2. Seal Trailer Height Range: 144 to 162 inches (3658 to 4115 mm).

Typical Dock Height: 48 inch (1219 mm).

* + - * 1. Included mounting hardware to be galvanized steel.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required. Fill in blanks per inch (25 mm) as required.

* + - * 1. Additional Projection up to 24 inches (609 mm): \_\_\_\_\_\_.
				2. Additional Drop in Head Curtain: \_\_\_\_\_.
				3. Wood Build-Out (inch/mm): \_\_\_\_\_.
				4. PVC drop curtain.
				5. Velcro split head curtain.
				6. Split Velcro Head Curtain: 1/2 foam face.
				7. Split Velcro Head Curtain: full foam face.
				8. Full yellow guide stripe.
	1. DOCK SHELTERS

\*\* NOTE TO SPECIFIER \*\* Truck shelters are the most versatile solution because they will accommodate the widest range of vehicles. They allow unobstructed access to the height and width of both the trailer and door openings. As the name implies, these units create a shelter from inclement weather. Best suited for typical door sizes up to 10-1/2 x 10-1/2 feet (3.2 x 3.2 m) with 12 inches (305 mm) minimum of shelter past the face of the dock bumpers. Delete if not required.

* + 1. Dock Shelters: Full Access Soft Sided Shelter with Trailer Hinge Hooks as manufactured by Marvel Equipment Corporation.
			1. Type: Model M625 Full access dock shelter.
				1. Foam dock shelter with head curtain and two vertical foam side pads with J-Hooks.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 22 oz vinyl is standard. Delete fabric weights and color options not required.

* + - * 1. Base Cover Fabric Weight: 22 oz vinyl.
				2. Curtain Fabric Weight: 40 oz vinyl.
				3. Curtain Fabric Weight: 50 oz vinyl.
				4. Curtain Fabric Weight: X-Treme 65.
				5. Color: \_\_\_\_\_\_.
				6. Color: As determined by the Architect.
				7. Color: As detailed on the drawings.
			1. Fits door sizes up to and including (WxH) 120 x 126 inches (3048 x 3200 mm).
				1. Header Unit: Pressure treated non-rot wood covered with polyethylene sheeting with UV inhibitors. Prevents cracking and fading in sunlight.

Size (Width x Projection x Drop): 142 x 21 x 36 inches (3556 x 533 x 914 mm).

Top curtain: Minimum of 6 support stiffeners. Covers full width and sides of head frame with a 30 inch (760 mm) drop.

* + - * 1. Side Units: 9 support stiffeners with a 25 inch (635 mm) width.
				2. Raked frame diverts water, preventing accumulation.
				3. Bottom Draft Pads: Two replaceable foam bottom draft pads.
				4. Interchangeable Polypropylene J-hooks: Seals exposed hinge gaps around trailer doors without obstructing forklift access to loads.
				5. Mounting hardware included.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required.

* + - * 1. Additional Drop in Head Curtain (inch/mm): \_\_\_\_\_.
				2. Additional Projection beyond 21 inches (533 mm): \_\_\_ inches (\_\_\_ mm).
				3. Galvanized steel frame.
				4. Gussets in head curtain.
				5. Tapered side pads.
		1. Dock Shelters: Rigid Frame Truck Shelter as manufactured by Marvel Equipment Corporation.
			1. Type: Model M400 Rigid Frame Truck Shelter.
				1. Stationary Dock Shelter with Core Framing: Pressure-treated wood or sturdy galvanized structural steel tubing.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 40 oz vinyl is standard. Delete fabric weights and colors not required.

* + - * 1. Cover Fabric Weight: 22 oz vinyl.
				2. Cover Fabric Weight: 40 oz vinyl.
				3. Cover Fabric Weight: 50 oz vinyl.
				4. Cover Fabric Weight: X-Treme 65.
				5. Color: \_\_\_\_\_\_.
				6. Color: As determined by the Architect.
				7. Color: As detailed on the drawings.

\*\* NOTE TO SPECIFIER \*\* Delete overall projection not required.

* + - 1. Overall Projection: 24 inches (610 mm).
			2. Overall Projection: 30 inches (762 mm).
			3. Overall Projection: 36 inches (914 mm).
			4. Overall Projection: 42 inches (1067 mm).
			5. Overall Projection: 48 inches (1219 mm).
			6. Construction: Wood frame, pressure treated lumber with UV50 polyethylene translucent sheeting cover.
				1. Door Size: 120 x 120 inches (3050 x 3050 mm).
				2. Trailer Height Range: 144 to 162 inches (3658 to 4110 mm).
				3. Header Frame: Peaked in the center to allow for adequate drainage.

Exterior Front Frame Edges: Minimum 1-1/2 x 2-1/2 inches (38 x 64 mm) galvanized steel trim angle to provide a clean finish.

Protected by structural steel guards.

Front Face: Minimum 5 inches (127 mm)/

* + - * 1. Cover Material: Unbalanced distribution coating of 85 to 15 for superior abrasion on contact surface.
				2. Head Curtain:

Drop: 36 inches (915 mm).

Stays: Full fiberglass stays.

Wear Pleats: 10 x 20 inch (254 x 508 mm) protective flaps at trailer impact area.

Tarp Straps: Heavy duty rubber to keep Head Curtain panel in position.

* + - * 1. Side Curtains: 24 inches (610 mm) wide.

Yellow Guide Stripe (WxH): 4 x 24 inch (100 x 610 mm).

Stays: Fiberglass stays and double layer of fabric on the bottom 24 inches (610 mm).

Top of Side Curtains: Supported by heavy duty tarp.

* + - * 1. Included mounting hardware to be galvanized steel.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required.

* + - * 1. Additional Drop in Head Curtain (inch/mm): \_\_\_\_\_\_.
				2. Additional Width on Side Curtains (inch/mm): \_\_\_\_\_.
				3. Units Wider than 138 inches (3505 mm): \_\_\_\_\_.
				4. Units Higher than 132 inches (3353 mm): \_\_\_\_\_.
				5. Gussets in head curtain.
				6. Reinforced edge on verticals.
				7. Galvanized steel frame made from 1.5 x 1.5 inch (38 x 38 mm) structural tubing.
		1. Dock Shelters: Stationary Inflatable as manufactured by Marvel Equipment Corporation.
			1. Type: Model M450 Stationary Inflatable Truck Shelter.
				1. Core Framing: Pressure-treated wood or sturdy galvanized structural steel tubing.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 17 oz vinyl is standard. Delete fabric weight and color options not required.

* + - * 1. Cover Fabric Weight: 17 oz vinyl.
				2. Color: \_\_\_\_\_\_.
				3. Color: As determined by the Architect.
				4. Color: As detailed on the Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete overall projection not required.

* + - 1. Overall Projection: 24 inches (610 mm).
			2. Overall Projection: 30 inches (762 mm).
			3. Overall Projection: 36 inches (914 mm).
			4. Overall Projection: 42 inches (1067 mm).
			5. Overall Projection: 48 inches (1219 mm).
			6. Construction:
				1. Header Unit (Width x Projection x Drop): 138 x 34 x 50 inches (3505 x 862 x 1270 mm).
				2. Inflatable Vertical Units (Height x Projection): 134 x 24 inches (3940 x 610 mm).

Inward Projection: 24 inch (610 mm).

* + - * 1. Head frame: Pressure treated non-rot wood covered with polyethylene sheeting with UV inhibitors to prevent cracking and fading in sunlight.
				2. Raked frame diverts water and prevents accumulation.
				3. Storage Curtain: 40 oz vinyl.

Top Curtain: 2 yellow aiming stripes, minimum of 7 support stiffeners. Covers full width and sides of head frame with a 25 inch (635 mm) drop.

Side Curtain: 7 support stiffeners. 15 inches (380 mm) wide.

* + - * 1. Bottom Draft Pads: Two replaceable foam bottom draft pads.
				2. Inflate mechanism includes 1/2 HP (0.37 kW) motor and blower assembly.
				3. Mounting hardware included.
				4. Door Size (WxH): 126 x 126 inches (3200 x 3200 mm).
				5. Trailer Heights Range: 144 to 162 inches (3658 to 4110 mm).
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required.

* + - * 1. Additional Height on Verticals (inch/mm): \_\_\_\_\_\_.
				2. Additional Width on Verticals (inch/mm): \_\_\_\_\_\_.
				3. Additional Drop in Head Bag (inch/mm): \_\_\_\_\_\_.
				4. Galvanized steel frame made from 1.5 x 1.5 inch (38 x 38 mm) structural steel tubing.
		1. Dock Shelters: Retractable Truck Shelter as manufactured by as manufactured by Marvel Equipment Corporation.
			1. Type: Model M500 Retractable Truck Shelter.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 40 oz vinyl is standard. Delete fabric weights and color options not required.

* + - * 1. Cover Fabric Weight: 22 oz vinyl.
				2. Cover Fabric Weight: 40 oz vinyl.
				3. Cover Fabric Weight: 50 oz vinyl.
				4. Cover Fabric Weight: X-Treme 65.
				5. Color: \_\_\_\_\_\_.
				6. Color: As determined by the Architect.
				7. Color: As detailed on the Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete overall projection not required.

* + - * 1. Overall Projection: 24 inches (610 mm).
				2. Overall Projection: 36 inches (914 mm).
				3. Overall Projection: 48 inches (1219 mm).
			1. Galvanized Steel Framing: 2 x 2 inch (51 x 51 mm) structural square tubing with 24 inch (610 mm) projection.
				1. Pivot Hinge System: Allows frames to retract upon impact from incoming trailers.
				2. Header Frame: Peaked in the center to allow for adequate drainage.
				3. Front Frame Edge Angle: Minimum 1-1/2 x 2-1/2 inch (38 x 64 mm), 11 gauge galvanized steel trim angle. Provides a clean finish.
				4. Structural I-Beams: Two, 10 inch (254 mm) beams protect frames.
				5. Head Curtain:

Drop: 36 inches (914 mm).

Stays: Full fiberglass stays.

Flaps (WxH): 20 x 10 inch (508 x 254 mm) protective flaps at trailer impact area.

Tarp Straps: Heavy duty rubber to keep panel in position.

* + - * 1. Side Curtains: 24 inches (610 mm) wide.

Yellow Aiming Stripe (WxH): 4 x 24 inches (102 x 610 mm).

Stays: Fiberglass stays and double layer of fabric on the bottom 24 inches (610 mm) of curtain.

Top of Side Curtains: Supported by heavy duty tarp.

* + - * 1. Curtain: Unbalanced distribution coating of 85 to 15 for superior abrasion on contact surface.
				2. Included mounting hardware to be galvanized steel.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required.

* + - * 1. Additional Drop in Head Curtain (inch/mm): \_\_\_\_\_\_.
				2. Additional Width on Side Curtains (inch/mm): \_\_\_\_\_\_.
				3. Units Wider than 138 inches (3505 mm): \_\_\_\_\_\_.
				4. Units Higher than 132 inches (3353 mm): \_\_\_\_\_\_.
				5. Gussets in head curtain.
				6. Reinforced edge on verticals.
		1. Dock Shelters: Air Frame Inflatable as manufactured by Marvel Equipment Corporation.
			1. Type: Model M550 Air Frame Inflatable Dock Shelter.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 17 oz vinyl is standard. Delete fabric weight and color options not required.

* + - 1. Cover Fabric Weight: 17 oz vinyl.
			2. Color: \_\_\_\_\_\_.
			3. Color: As determined by the Architect.
			4. Color: As detailed on the Drawings.
			5. Construction:
				1. Door Size (WxH): 126 x 126 inches (3200 3200 mm).
				2. Trailer Height Range: 144 to 162 inches (3958 to 4112 mm).
				3. Header Unit (Width x Projection x Drop): 136 x 34 x 50 inches (3451 x 864 x 1270 mm).
				4. Vertical Air Frame Units (Height x Projection): 128 x 24 inches (3250 x 610 mm).

Inward Projection: 24 inches (610 mm).

* + - * 1. Head Frame: Pressure treated, non-rot wood covered with polyethylene sheeting with UV inhibitors to prevent cracking and fading in sunlight.
				2. Draft Flaps: Two replaceable bottom draft flaps.
				3. Inflate Mechanism: 1/2 HP (0.37 kW) motor and blower assembly.
				4. Mounting hardware included.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required.

* + - * 1. Additional Drop in Head Bag (inch/mm): \_\_\_\_\_\_.
				2. Additional Height on Verticals (inch/mm): \_\_\_\_\_\_.
				3. Additional Width on Unit (inch/mm): \_\_\_\_\_\_.
				4. Galvanized steel frame made from structural tubing.
		1. Dock Shelters: Foam Dock Shelter as manufactured by Marvel Equipment Corporation.
			1. Type: Model M600 Foam Dock Shelter.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 40 oz vinyl is standard Curtain Fabric. Delete fabric weights and color options not required.

* + - * 1. Base Cover Fabric Weight: 22 oz vinyl.
				2. Curtain Fabric Weight: 22oz vinyl.
				3. Curtain Fabric Weight: 40 oz vinyl.
				4. Curtain Fabric Weight: 50 oz vinyl.
				5. Curtain Fabric Weight: X-Treme 65.
				6. Color: \_\_\_\_\_\_.
				7. Color: As determined by the Architect.
				8. Color: As detailed on the Drawings.
			1. Wood Frames: Pressure treated lumber with fiberglass translucent sheeting cover.
				1. Standard Projection: 18 inches (457 mm).
				2. Foam Core: Polyurethane with 98 percent memory unaffected by moisture, heat, or cold. Maintains flexibility at minus 40 degrees F (minus 40 degrees C).

Continuously bonded to kiln dried lumber backing with high quality nonflammable adhesive.

* + - * 1. Header Frame: Peaked in the center to allow for adequate drainage.

Exterior Front Frame Edges: Minimum 1-1/2 x 2-1/2 inches (40 x 65 mm) galvanized steel trim angle. Provides a clean finish.

* + - * 1. Cover Material: Unbalanced distribution coating of 85 to 15 for superior abrasion on contact surface.
				2. Head Curtain:

Drop: 36 inches (915 mm).

Stays: Full fiberglass stays.

Flaps: 10 x 20 inch (254 x 508 mm) protective flaps at trailer impact area.

Tarp Straps: Heavy duty rubber. Keeps Head Curtain in position.

* + - * 1. Side Curtains: 24 inches (610 mm) wide.

Yellow Guide Stripe (WxH): 4 x 24 inch (100 x 610 mm).

Stays: Fiberglass stays.

Top of Side Curtains: Supported by heavy duty tarp.

* + - * 1. Side Pads (Width x Projection): 8 x 18 inch (203 x 457 mm).

Yellow Guide Stripe (WxH): 4 x 24 inch (100 x 610 mm).

* + - * 1. Included mounting hardware to be galvanized steel.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required.

* + - * 1. Wood Build-Out Box, for projections over 28 inches (711 mm): \_\_\_\_\_\_.
				2. Additional Drop in Head Curtain (inch/mm): \_\_\_ inches (\_\_\_ mm).
				3. Additional Width in Head Curtain (inch/mm): \_\_\_ inches (\_\_\_ mm).
				4. Additional Width in Head Frame (inch/mm): \_\_\_ inches (\_\_\_ mm).
				5. Additional Width on Side Curtains: \_\_\_ inches (\_\_\_ mm).
				6. Additional Height on Side Pads and Side Curtains: \_\_\_ inches (\_\_\_ mm).
				7. Gussets in head curtain.
				8. Full height yellow guide stripe.
				9. Tapered side pads, over 3 percent only.
				10. Galvanized steel head frame made from structural tubing.
		1. Dock Shelters: Rain Diverter as manufactured by Marvel Equipment Corporation.
			1. Type: Model M900 Rain Diverter.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 40 oz vinyl is standard. Delete fabric weight and color options not required.

* + - * 1. Cover Fabric Weight: 40 oz Vinyl.
				2. Cover Fabric Weight: 50 oz Vinyl.
				3. Cover Fabric Weight: X-Treme 65.
				4. Color: \_\_\_\_\_\_.
				5. Color: As determined by the Architect.
				6. Color: As detailed on the Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete overall projection not required.

* + - * 1. Overall Projection: 24 inches (610 mm).
				2. Overall Projection: 30 inches (762 mm).
				3. Overall Projection: 36 inches (914 mm).
				4. Overall Projection: 48 inches (1219 mm).
			1. Construction:
				1. Door Size: 120 x 120 inches (3048 x 3048 mm).
				2. Trailer Height Range: 156 to 162 inches (3960 to 4112 mm).
				3. Consists of header frame assembly with foam pad, one storage curtain w/trim angle and two galvanized steel side support mounting brackets.
				4. Foam Pads: Polyurethane foam core with 98 percent memory unaffected by moisture, heat, or cold. Maintains flexibility at minus 40 degrees F (minus 40 degrees C).

Continuously bonded to pressure-treated lumber, including UV translucent sheeting, with high non-flammable quality adhesive.

Cover Material: Polyester base with a 40 oz vinyl finished weight.

Protective Flaps: 40 oz vinyl protective flaps on contact area of each side of unit with a minimum 6 inches (152 mm) exposure.

* + - * 1. Minimum Mounting Height: 182 inches (4622 mm) from grade.
				2. Storage Curtain: Made from 22 oz vinyl.
				3. Head Frame: Pressure treated, non-rot wood covered with polyethylene sheeting with UV inhibitors to prevent cracking and fading in sunlight.
				4. Included mounting hardware to be galvanized steel.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required.

* + - * 1. Additional Drop on Pad: \_\_\_ inches (\_\_\_ mm).
				2. Additional Width on Unit: \_\_\_ inches (\_\_\_ mm).
				3. Galvanized steel framing.
				4. Snow load supports, set of two.
		1. Dock Shelters: Full Access Combo Soft Sided Shelter with Trailer Hinge Hooks and Rain Diverter as manufactured by as manufactured by Marvel Equipment Corporation.
			1. Type: Model M675 Full access dock shelter.
				1. Foam dock shelter with head curtain and two vertical foam side pads with J-Hooks and Rain Diverter sealing pad.

\*\* NOTE TO SPECIFIER \*\* Durable fabrics in a wide range of weights, styles, and colors. Consult manufacturer's literature. 40oz Vinyl base fabric is standard on Curtains and Rain Diverter.

* + - * 1. Curtain Fabric Weight: 40 oz vinyl.
				2. Curtain Fabric Weight: 50 oz vinyl.
				3. Curtain Fabric Weight: X-Treme 65.
				4. Color: \_\_\_\_\_\_.
				5. Color: As determined by the Architect.
				6. Color: As detailed on the drawings.
			1. Fits door sizes up to and including (WxH) 120 x 126 inches (3048 x 3200 mm).
				1. Header Unit: Galvanized Framing made with structural tubing covered with Galvanized sheeting for superior durability and strength.

Size (Width x Projection x Drop): 142 x 34 x 30 inches (3604 x 863 x 761 mm ).

Top curtain: Minimum of 6 support stiffeners. Covers full width and sides of head frame with a 30 inch (761 mm) drop.

* + - * 1. Side Units: 9 support stiffeners with a 25 inch (635 mm) width.
				2. Raked frame diverts water, preventing accumulation.
				3. Bottom Draft Pads: Two replaceable foam bottom draft pads.
				4. Interchangeable Polypropylene J-hooks: Seals exposed hinge gaps around trailer doors without obstructing forklift access to loads.
				5. Rain Diverter Pad with a sealing height of 156 inch (3962 mm).
				6. Mounting hardware included.
			1. Included Optional Features and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete optional features/accessories not required.

* + - * 1. Additional Drop in Head Curtain: \_\_\_ inches (\_\_\_ mm).
				2. Additional Projection beyond 21 inches (533 mm): \_\_\_ inches (\_\_\_ mm).
				3. Galvanized steel frame.
				4. Gussets in head curtain.
				5. Tapered side pads.
1. EXECUTION
	1. EXAMINATION
		1. Do not proceed with installation until substrates are properly prepared and deviations from manufacturer's recommended tolerances corrected. Commencement of the installation constitutes acceptance of conditions.
		2. Prepare substrates using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
		3. If preparation is the responsibility of another installer, notify Architect, in writing, of deviations from manufacturer's recommended installation tolerances and conditions.
		4. Verification of Conditions: Verify that field measurements, surfaces, substrates, and conditions are as required, and ready to receive Work.
	2. INSTALLATION
		1. Install products in prepared opening in accordance with manufacturer's instructions. Set square and level. Anchor unit securely, flush with dock. Weld the back of dock leveler to pit frame. Touch-up welds with matching paint.
		2. Install dock bumpers in accordance with manufacturer's instructions.
	3. ADJUSTING
		1. Adjust installed unit for smooth and balanced operation.

END OF SECTION