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CITY OF PORTLAND, MAINE
RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/28/17

ST-8100 SERIES

ASSEMBLY INSTRUCTIONS

ALL DRAWINGS ARE FOR ILLUSTRATION ONLY.

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Assembly Instructions Include:

Step 1 ..... Site Preparation
Step 2 ..... Leg Assembly
Step 3 ..... Setting the Stage (Non-Telescoping Legs)
Steps 4-6 ..... Setting the Stage
Step 7 ..... Guard Rail Installat
Step 8 ..... Diagonal Bracing
Step 9 ..... Stairs
Special Configurations Sections

STEP 1 Site Preparation

A. Determine the exact location of the stage.

B. For outdoor stages, mudsills are recommended to distribute the weight (150 PSF) on the legs. This will help prevent the legs from sinking and ease in leveling the stage.

STEP 2 Leg Assembly

Attach adjustable rubber base pad to galvanized legs in 3rd hole with 2" snap pins.

Multi-Stage Leg

Multi-Stage Leg with Telescoping Sleeve

STEP 3 Setting the Stage (Non-Telescoping Legs)

A. Insert legs completely into all four corner sockets in first stage section using 2" snap pins.
Note: The head of the snap pin should face the outside of deck.

B. Set first section in back left-hand corner of stage area.
(any corner may be used as starting point*)

C. Align the stage section so that the studs are to the inside and the slotted sides are to the outside of the stage area.

* Any corner may be used when using the 4' x 4' decks exclusively.

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STEP 4

(Only two galvanized legs are needed on each stage section in this row.)

A. Set back row of stage sections fi

B. Insert the two legs into stage sec as shown and attach it to previou section by means of the slot and pin connections.

C. Insert 5/16" T-handle hex wrench through the top of the deck and lock stages together by rotating the cam lock clockwise.

D. Insert a plastic plug into the stage deck to cover the cam lock hole as shown .

Note: Step C & D can be done as you are setting up the stage or when assembly is completed.

STEP 5

Upon completion of the back row, begin the second row with one section and two legs as shown in Step 4- B, C & D.

STEP 6

A. To continue the second row, insert one leg in corner socket as shown and pin. Attach section to adjacent sections A & B as shown.

B. Additional stage sections in each row are assembled in a like manner.

C. Decks should be locked together with cam lock (see Step 4, C & D).

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STEP 7 Guard Rail Installation

Panel Guard Installation

A. Use 1" long bolt to bolt the guard rail to the side of the stage and use 2-1/2" long bolt to bolt the guard rail to the leg of the stage.

Post and Rail Installation

A. Select appropriate legs and attach each guard rail post with (2)-3/8" x 2-1/2" hex bolts and nuts directly below the deck sockets as shown in installation options #1 - #4 below.

B. Posts will be spaced at 4' or 8' intervals depending on rail lengths. Attach mid-rails with 1/2" wing nuts and top rails with 1/2" black rail knobs. (Pre-set all posts and rails before tightening.)

Option #1 | **Option #2** | **Option #3** | **Option #4**

Guard Rail Post Installation

NOTE: Installing guard railing often requires pre-planning. The options shown are the positions that the guard rail post can be bolted to the stage leg.

STEP 8 Diagonal Bracing

A. Diagonal bracing is required on stages with heights over 30". Brace each corner and every third bay along each side. Use 3/8 x 2-1/2" hex bolts and wing nuts. Internal braces should be placed in the same row as perimeter bracing.

B. Double diagonal bracing should be used on heights over 48". At least one of the braces should span the connection between the 1-1/2" leg and the 1-3/4" telescoping sleeve.

C. The bolt space of the diagonal braces will be:
12" with legs at 48" center line.
18" with legs at 46" center line.

Position braces on leg height to maintain equal brace spacing.

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STEP 8

D. When bracing the Multi-Stage, a common leg should be braced in both directions as shown.

E. Multi-Stage should be braced every 2-3 decks as shown when bracing is required. (Note the common leg bracing method is shown below.)

STEP 9 Ultra-Stair

A. Assemble handrail units as shown using bolt (1).

B. Insert handrail assembly into sockets on stair unit. Fasten with bolts (4) as shown.

C. Place stair unit onto stage as shown. Secure stair to stage through legs with bolts (6) and under stage with bolts (5).

D. Adjust height of lowest stair to match rise of other stairs using the adjustable foot pads (7).

E. Fully tighten the wing nut attached to the banana clip on each side of the stairs.

1. Bolt - 3/8-16 x 3-1/2" (8)
2. Flat Washer - 3/8" (20)
3. Lock Nut - 3/8-16 (16)
4. Bolt - 3/8-16 x 2" (6)
5. Bolt - 3/8-16 x 1" (2)
6. Bolt - 3/8-16 x 2-3/4" (2)
7. Rubber Foot Pad (2)

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SPECIAL CONFIGURATIONS

45° Stage

When a 45° stage is mated to the notched side of a deck, bolting is required using:
(2) 3/8" x 1" hex bolts
(2) 3/8" hex nuts

Riser Assembly with Guard Rail

1. Riser socket
2. 3/8" x 1" long hex bolt
3. 3/8" hex nut

Using a riser application, chair rails w/clamp would be required. Contact factory for details.

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ADA Access Ramp Assembly with Guard Rail

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A. Ramp should be assembled at 5° slope. (1 inch of rise to 12 inches of run)

B. Ramp should be assembled from platform height to the ground.

C. Intermediate platform is required when ramp exceeds 30 feet.

1) 4' x 4' 5-Degree Angle Deck 0106-064-5

2) 4' x 4' Transitional Deck 0106-236-5

3) 4' x 22" ADA Starter Deck..... 0106-286-5

4) ADA Starter Deck Guard Rail Panel..... 0106-351-1 (Left)
with Handrail..... 0106-351-2 (Right)

5) Transitional Deck Guard Rail Panel ..... 0106-239-1 (Left)
..... 0106-239-2 (Right)

6) Ramp Deck Guard Rail Panel ..... 0106-234-1 (Left)
..... 0106-234-2 (Right)

7) Top Deck Guard Rail Panel with Hand Rail..... 0106-348-1 (Left)
..... 0106-348-2 (Right)

8) ADA Handrail Clamp (to attach Item 9 to
Item 5 & 6)..... 0106-354

9) ADA Handrail (for Item 5 & 6)..... 0106-357-04

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