



INSTRUCTION MANUAL
Duro-Last Membrane Roof Installation
IM-338-91

Installing a Duro-Last Membrane Roof on Walk-Ins

Make absolutely no roof penetrations for plumbing, electricity, or other services. All penetrations must go through the side walls.

Actual Size	Roof Material Size			Tabs	Dimension to Chalk Line	Tabs from Each End			Overhang		
	4"	5"	6"			4"	5"	6"	4"	5"	6"
*3'11"	5'0"	5'6"	5'6"	2	8½"	18"	18"	18"	6½"	12½"	12½"
*4'10½"	6'0"	6'6"	6'6"	2	21"	24"	24"	24"	6¾"	12¾"	12¾"
5'10"	7'0"	7'0"	7'6"	2	5"	15"	15"	18"	7"	7"	10"
6'9½"	8'0"	8'0"	8'6"	2	10¾"	21"	21"	24"	7¼"	7¼"	10¼"
7'9"	9'0"	9'0"	9'6"	2	16½"	27"	27"	30"	7½"	7½"	10½"
8'8½"	10'0"	10'0"	10'6"	2	22¼"	33"	33"	36"	7¾"	7¾"	10¾"
9'8"	11'0"	11'0"	11'0"	2	28"	39"	39"	39"	8"	8"	8"
10'7½"	12'0"	12'0"	12'0"	3	5¼"	16½"	16½"	16½"	8¼"	8¼"	8¼"
11'7"	13'0"	13'0"	13'0"	3	11"	22½"	22½"	22½"	8½"	8½"	8½"
12'6½"	14'0"	14'0"	14'0"	3	16¾"	28½"	28½"	28½"	8¾"	8¾"	8¾"
13'6"	14'6"	15'0"	15'0"	3	22½"	31½"	34½"	34½"	6"	9"	9"
14'5½"	15'6"	16'0"	16'0"	4	28¼"	37½"	40½"	40½"	6¼"	9¼"	9¼"
15'5"	16'6"	17'0"	17'0"	4	5½"	15"	18"	18"	6½"	9½"	9½"
16'4½"	17'6"	18'0"	18'0"	4	11¼"	21"	24"	24"	6¾"	9¾"	9¾"
17'4"	18'6"	18'6"	19'0"	4	17"	27"	27"	30"	7"	7"	10"
18'3½"	19'6"	19'6"	20'0"	4	22¾"	33"	33"	36"	7¼"	7¼"	10¼"
19'3"	20'6"	20'6"	21'0"	4	28½"	39"	39"	42"	7½"	7½"	10½"
20'2½"	21'6"	21'6"	22'0"	5	5¾"	16½"	16½"	19½"	7¾"	7¾"	10¾"
21'2"	22'6"	22'6"	22'6"	5	11½"	22½"	22½"	22½"	8"	8"	8"
22'1½"	23'6"	23'6"	23'6"	5	17¼"	28½"	28½"	28½"	8¼"	8¼"	8¼"
23'1"	24'6"	24'6"	24'6"	5	23"	34½"	34½"	34½"	8½"	8½"	8½"
20'½"	25'6"	25'6"	25'6"	5	28¾"	40½"	40½"	40½"	8¾"	8¾"	8¾"
25'0"	26'6"	26'6"	26'6"	6	6"	18"	18"	18"	9"	9"	9"
25'11½"	27'6"	27'6"	27'6"	6	11¾"	24"	24"	24"	9¼"	9¼"	9¼"
26'11"	28'0"	28'6"	28'6"	6	17½"	27"	30"	30"	6½"	9½"	9½"
27'10½"	29'0"	29'0"	29'6"	6	23¼"	33"	36"	36"	6¾"	9¾"	9¾"
28'10"	30'0"	30'0"	30'6"	6	29"	39"	39"	42"	7"	7"	10"

* Do not run tabs in this direction unless absolutely necessary

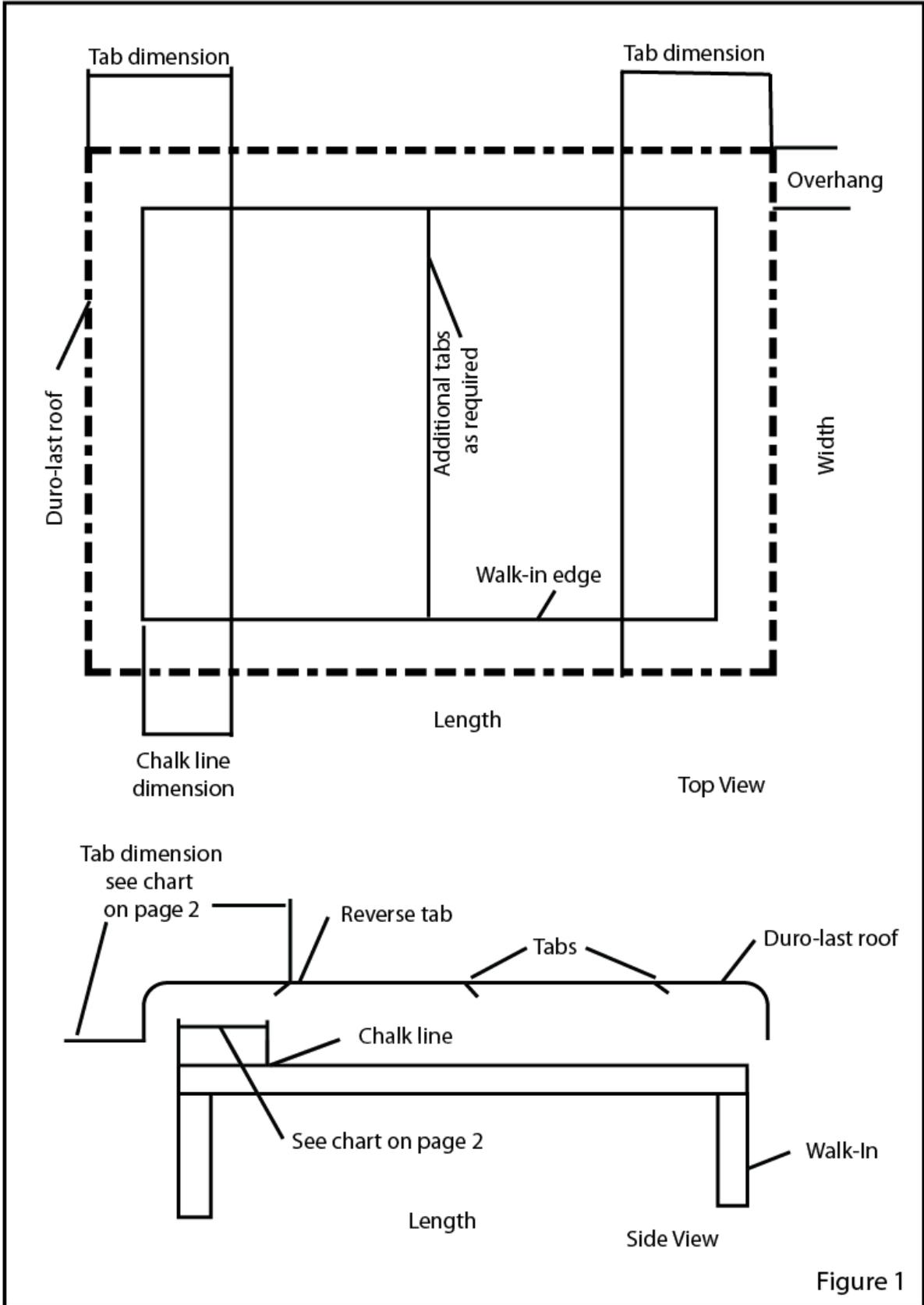


Figure 1

1. Prep roof of walk-in.
 - A. Remove any foreign material.
 - B. Sweep roof if necessary.
2. Check roof cap material for length and width.
 - A. Length (see chart page and Figure 1.)
 - B. Width (see chart page 1 and Figure 1.)

 Tabs should run this dimension.

 - C. Orient tabs and roll tightly (tab side down) so that reverse tab can be attached first. See Figures 2 and 4.
 - D. Check dimension from end of roof material to 1st tab (at welded seam). See Figure 1.
 - E. Find the chalk line dimension on the chart on page 1 corresponding to the length of your walk-in.
 - F. Apply chalk line to the top of the walk-in parallel to either short side. See Figure 3.
3. Align reverse tab with chalk line. Tab should point toward closest short side of walk-in. See Figure 4.
 - A. Make sure tab is aligned with chalk line from end to end of walk-in.
 - B. Check for approximate overhang as shown on chart, page 1. Membrane roof must be centered with equal overhang on either side.
 - C. Find the center point of the walk-in along the chalk line and mark a point every 8" (*every 6" in high wind areas*) to each end.
 - D. Install plastic hold down buttons on the first tab on 8" centers (*every 6" in high wind areas*) with fasteners provided. Start installing fasteners in center of roof and work toward each end.
 1. Do not pre-drill.
 2. Tighten snugly - **DO NOT OVERTIGHTEN** as you may strip the metal screws.
 3. If you strip a metal screw, remove and relocate plate 1" to left or right of original position.
 - E. Unroll roof cap to next tab and fasten as described in steps D, D1, D2 and D3 above. Keep roof material snug. (Do not stretch.)
 - F. Use same procedure for all additional tabs.
4. After installing roof material, fasten edges using termination bars and fasteners provided. See Figure 5. NOTE: Fasten both short edges first. Fold corners and fasten roof edges on long sides last. See Figure 6.
 - A. Trim excess material below bars. See Figure 5.
 - B. Caulk top edge of bars with caulking furnished. See Figure 6.

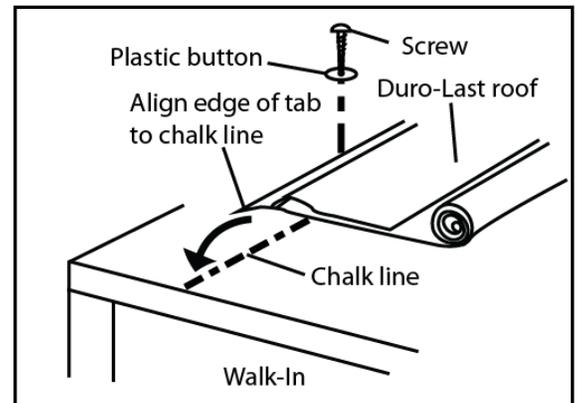
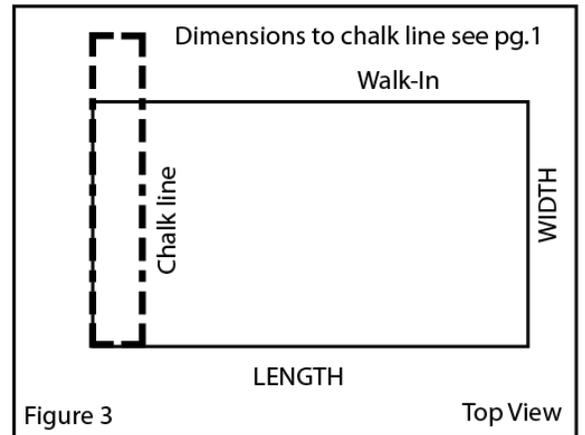
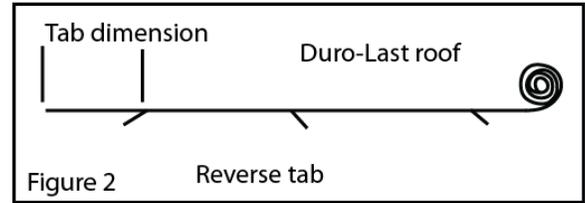


Figure 4

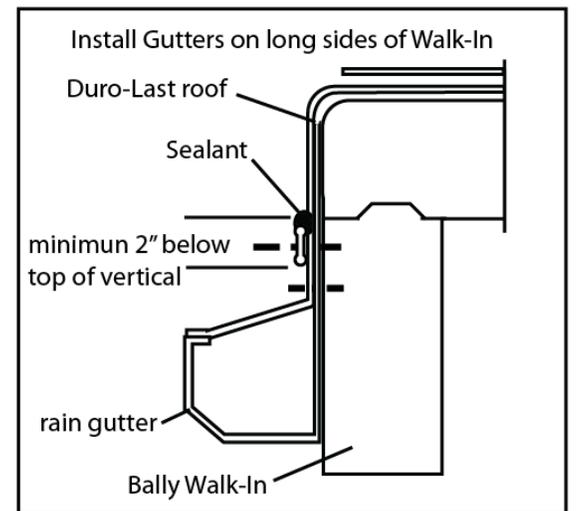


Figure 5

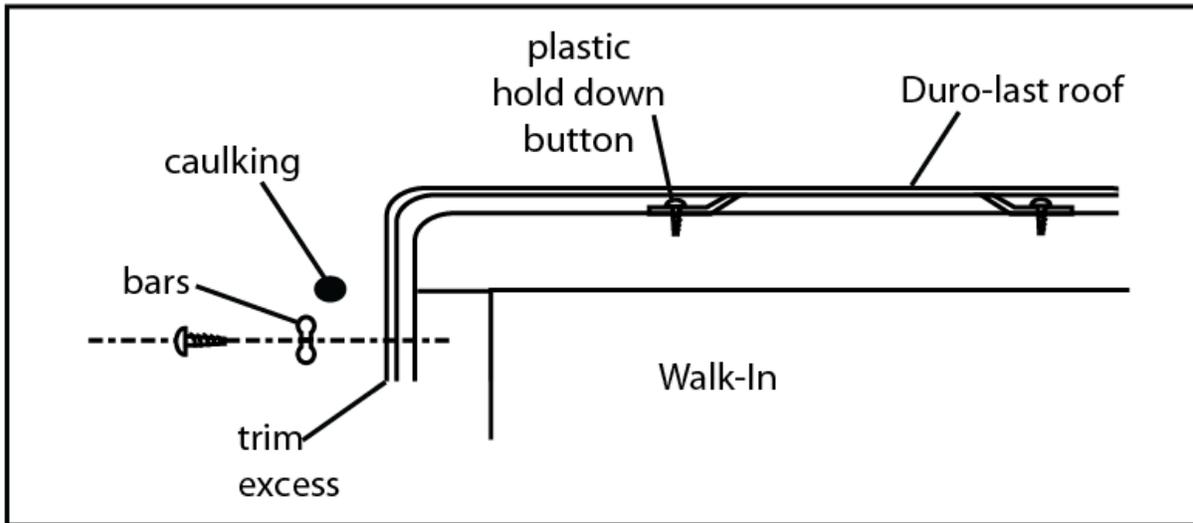


Figure 6

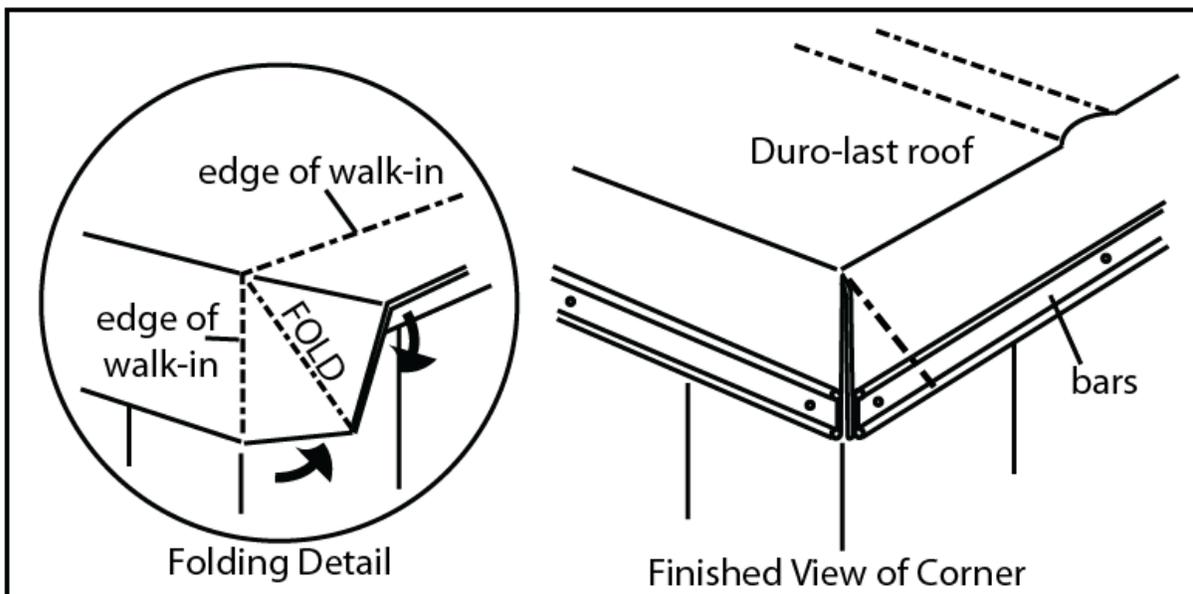


Figure 7

5. Care and maintenance: Regular visual inspection is required to:

- A. Remove casual debris.
- B. Inspect for any penetrations or tears due to falling or wind-blown debris. Caulk and mark damaged area immediately.

Contact Duro-last at 1-800-248-0280 for nearest dealer/installer for needed repairs.

C. Roof area should not be used as a walkway.

6. Warranty: A 15 year limited material-only warranty is extended by Duro-last. See special warranty furnished with walk-in warranty.

Installation instructions for Bally buildings abutting existing buildings

Note: Spend a few minutes reviewing this material before you begin installing the membrane roof. Using Figure 8, find the condition that applies to your installation. Condition A applies when a long side of the Bally structure abuts an existing building; Condition B when a short side abuts, and Condition C when both a short and a long side abut.

Condition A: Long side of Bally structure's membrane roof abuts existing building.

Note: If Condition A exists, follow steps 1, 2 and 3 below before referring to material on pages 4 and 5.

1. The width of your roofing material will be 6" wider than the width shown in the chart on page two.
2. Fold the membrane material back before rolling up roof material. See Figure 9. Note: Tabs will run perpendicular to building wall. (See Figure 9) Space between insulated structure and existing building must be flashed first (vertical direction). Perforated material is recommended to allow circulation if Bally building is a cooler or freezer. (See Figure 10).
3. Included with the membrane roof will be two outside corner pieces. (See Figure 11) Install these corners before installing your membrane roof. Caulk first. (See Figures 11 and 12)
4. On page 2, find correct chalk line dimension. Complete installation of roofing material on ceiling panels, following instructions on pages 4 and 5.
5. Flash roof material to building wall following Figure 13.
6. At corners abutting the building, make a horizontal cut in the roof material. Fold material down. Follow Figure 12.
7. Complete installation of termination bars and caulking, following pages 4 and 5. Install the termination bars on the short sides first.

Condition B: Short side of Bally structure's membrane roof abuts existing building.

1. The length of your roofing material will be 6" longer than the length shown in the chart on page 2. These 6 inches are added to the reverse tab side. See Figure 14. Note: Tabs will run parallel to building wall. (See Figure 15) Space between building wall and existing building must be flashed first. Perforated material is recommended to allow circulation if Bally building is a cooler or freezer. (See Figure 10)

2. Included with your membrane roof will be two outside corner pieces (See Figure 11) Install these corners before installing your membrane roof. Caulk first. (See Figures 11 and 12)
3. Use 6" for your chalk-line dimension. Your Installation must start next to the existing building wall.
4. Now follow the instructions on pages 4 and 5 for the remainder of the installation. Hold overlap on outer sides as indicated in the chart on page two. Complete installation of roofing material on ceiling panels.
5. Flash roof material to building wall following Figure 13.
6. At the corners abutting the building, make a horizontal cut in the roof material. (Follow Figure 12)
7. Following instructions on pages 4 and 5, complete installation of termination bars and caulking.

Condition C: one short and one long side of Bally structure's membrane roof abut existing building.

1. The length and width of your roofing material will be 6" greater than dimensions shown in the chart on page 2. Note: Tabs should run parallel to short dimension. (See Figure 16) Space between building wall and existing building must be flashed first. Perforated material is recommended to allow circulation if Bally building is a cooler or freezer. (See Figure 10)
2. Fold the membrane material back before rolling up roof material. See Figure 16.
3. Included with your membrane roof will be two outside corner pieces (See Figure 11) Install these corners before installing your membrane roof. Caulk first. (See Figures 11 and 12)
4. Use 6" for your chalk-line dimension. Your Installation must start next to the short wall of the existing building.
5. Find overhang column in chart on page two. Hold this dimension along open end of Bally building. See Figure 16.
6. Attach membrane roof to Bally ceiling panels, using technique explained on pages 4 and 5.
7. Flash roof material to building wall following Figure 13. See Figure 7 for method of folding corner.
8. At corners abutting the building, make a horizontal cut in the roof material. Fold material down. Follow Figure 12.
9. Complete installation of termination bars and caulking, following pages 4 and 5.

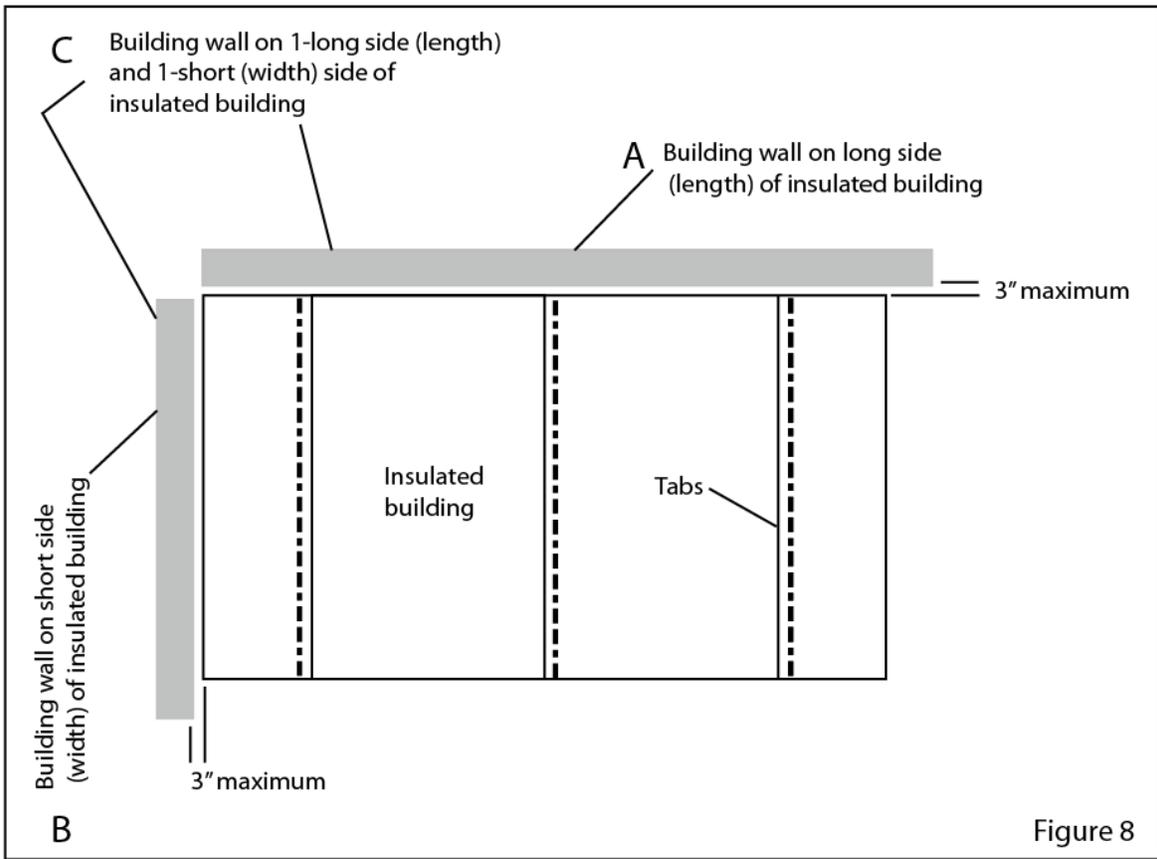


Figure 8

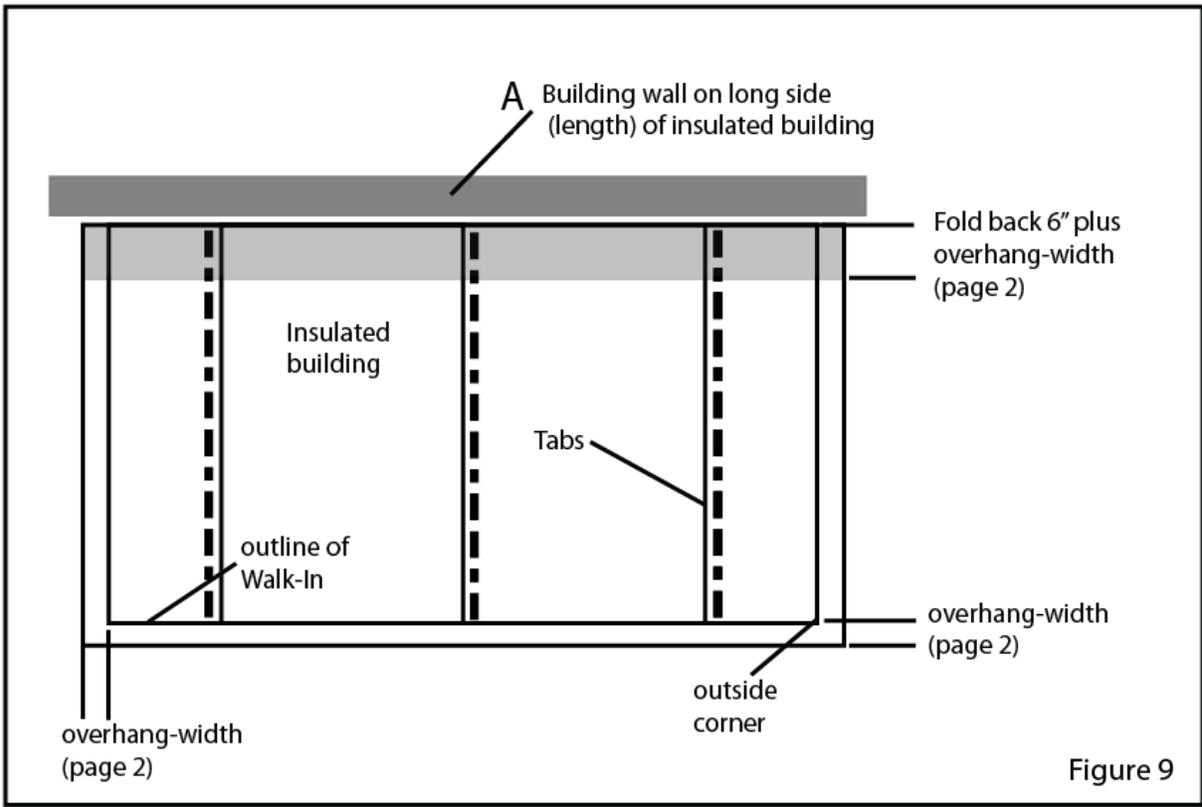
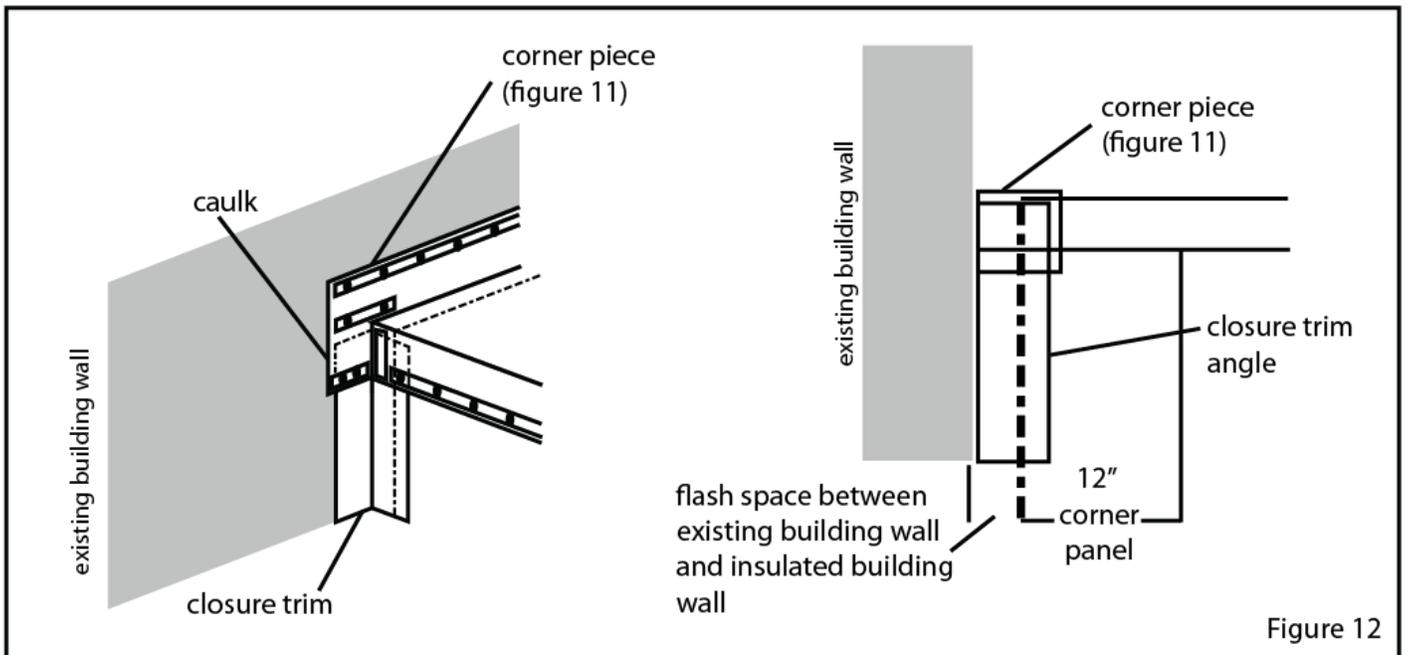
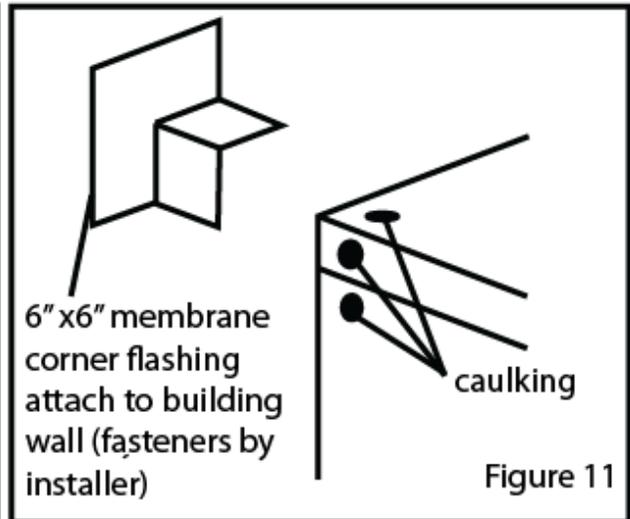
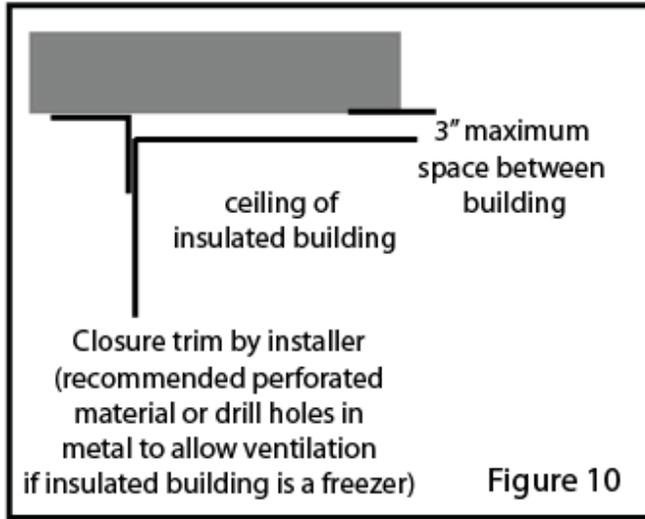


Figure 9



INSTRUCTION MANUAL
 Duro-Last Membrane Roof Cap
 IM-187-91/ IM-91-338

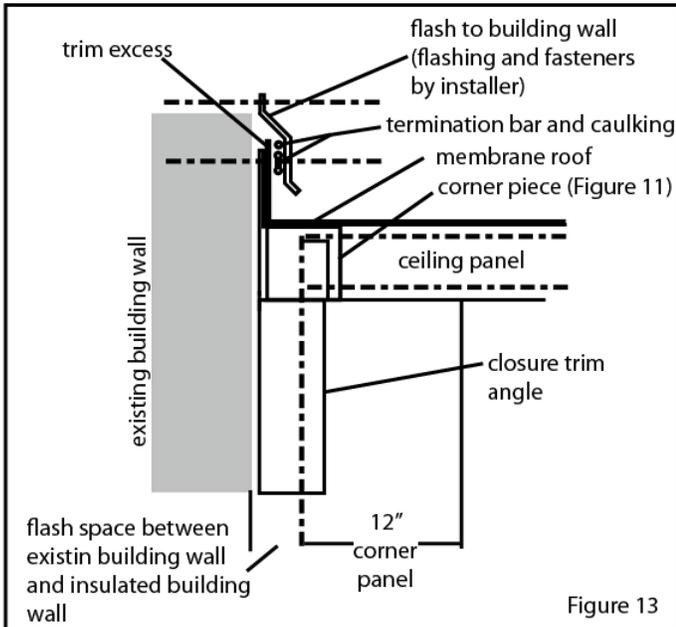


Figure 13

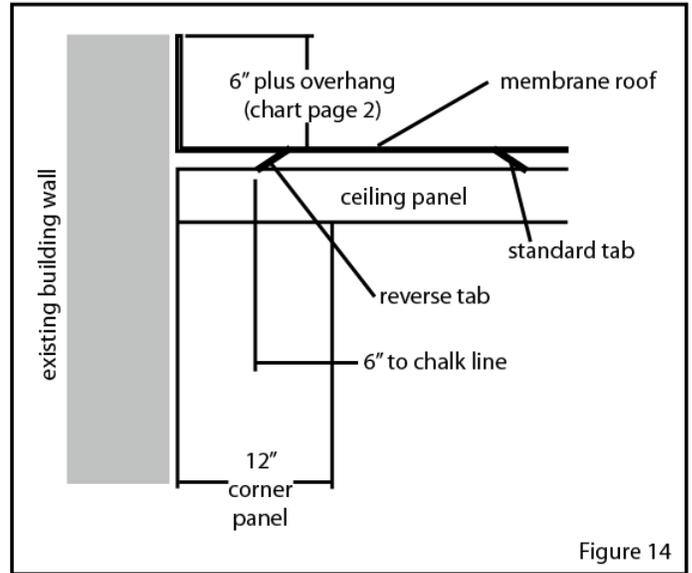


Figure 14

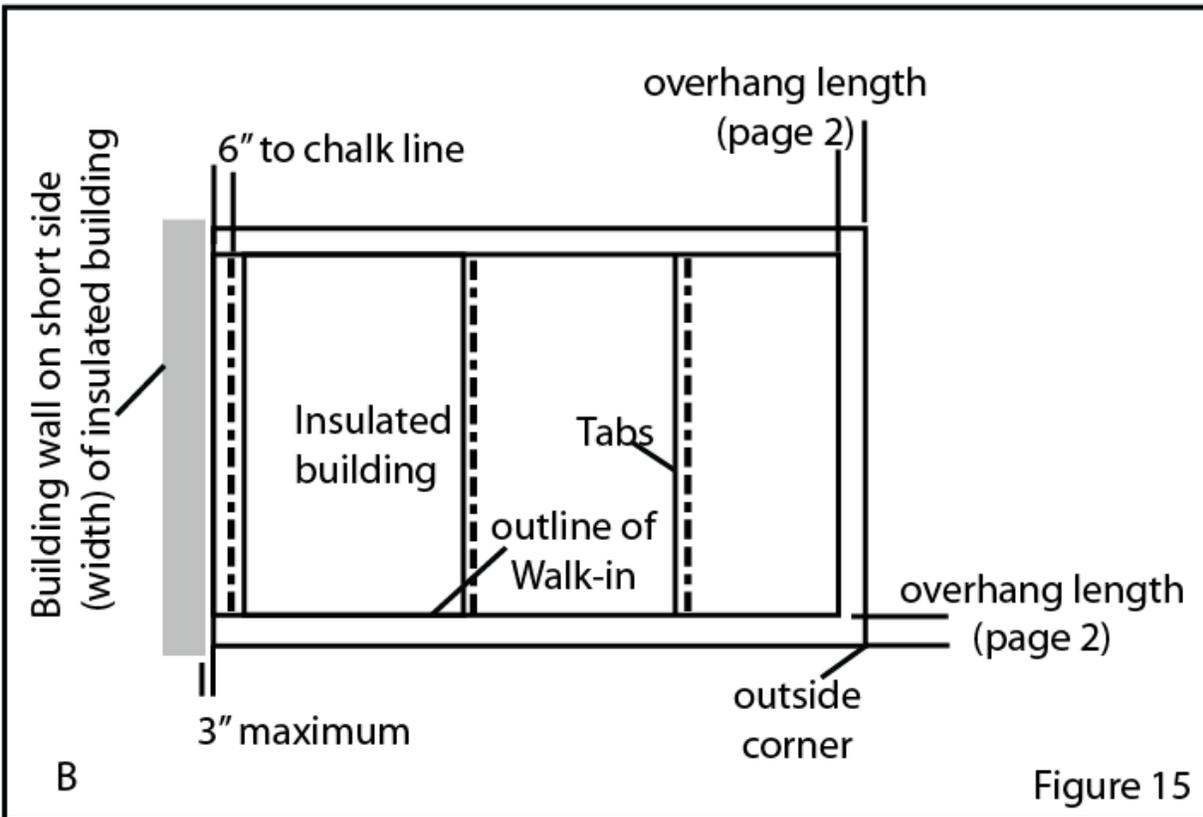


Figure 15