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MOBILE HOMES
AND SIMILAR BUILDINGS

INSTALLATION

Duro-Last®, Inc. approves mobile home installations based upon width of the building. Mobile buildings, greater than 14'-6" in width shall be treated as normal construction and the roofing procedure shall follow the normal Duro-Last specifications, except a minimum of two (2) Duro-Last® vents shall be used. Mobile buildings 14'-6" or less in width may be roofed according to the standard Duro-Last®, Inc. specifications or may be roofed according to these special specifications.

The approved attachment of the membrane on these mobile buildings may use either of the following methods.

One Tab System: The sheet(s) shall be ordered with one tab only which is located in the middle of the sheet and shall run the length of the building. The tab is positioned on the roof along the middle of the roof deck. The tab shall be fastened into the roof struts (rafters) with Duro-Last® approved fasteners. The membrane is then pulled smooth and fastened around the perimeter according to Duro-Last® approved edge specifications.

Two Tab Systems: The sheet(s) shall be ordered with two (2) tabs located an equal distance from each edge, running the length of the building. The tabs are to be positioned on the roof with the outside edge of each tab 30" from the centerline of the roof deck. The tabs shall be fastened into each of roof struts (rafters) with Duro-Last® approved fasteners. The membrane is then pulled smooth and fastened around the perimeter according to Duro-Last® approved edge specifications.

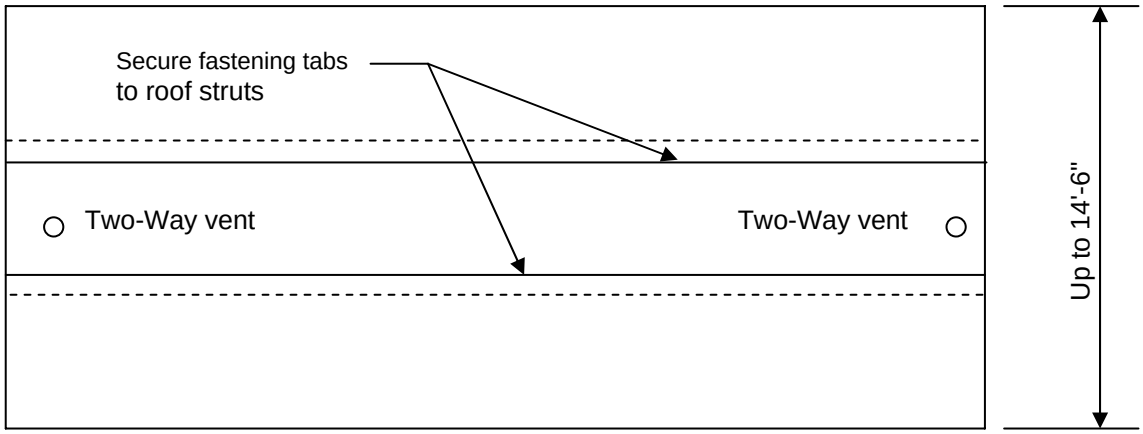
VENTS

The Duro-Last® vents (2 are required for a Single Wide and 4 for a Double-Wide) shall be installed according to the standard vent detail.

NOTE 1: When insulation is added, care must be taken with regard to combustion gas vent pipes. Any time more than ½-inch of insulation is added to the deck, the contractor shall have a qualified HVAC technician check the installation to assure that combustion gas ventilation is adequate. It may be necessary to extend plumbing vent pipes, chimney pipes, air vents, and etc. to properly flash these details.

NOTE 2: Duro-Last Two-Way vents are designed to ventilate the roofing system only and should not be used for any other purpose.

To cover up to a 14'-6" wide mobile home the roofing membrane will be:



Secure edge according to Duro-Last® specification.

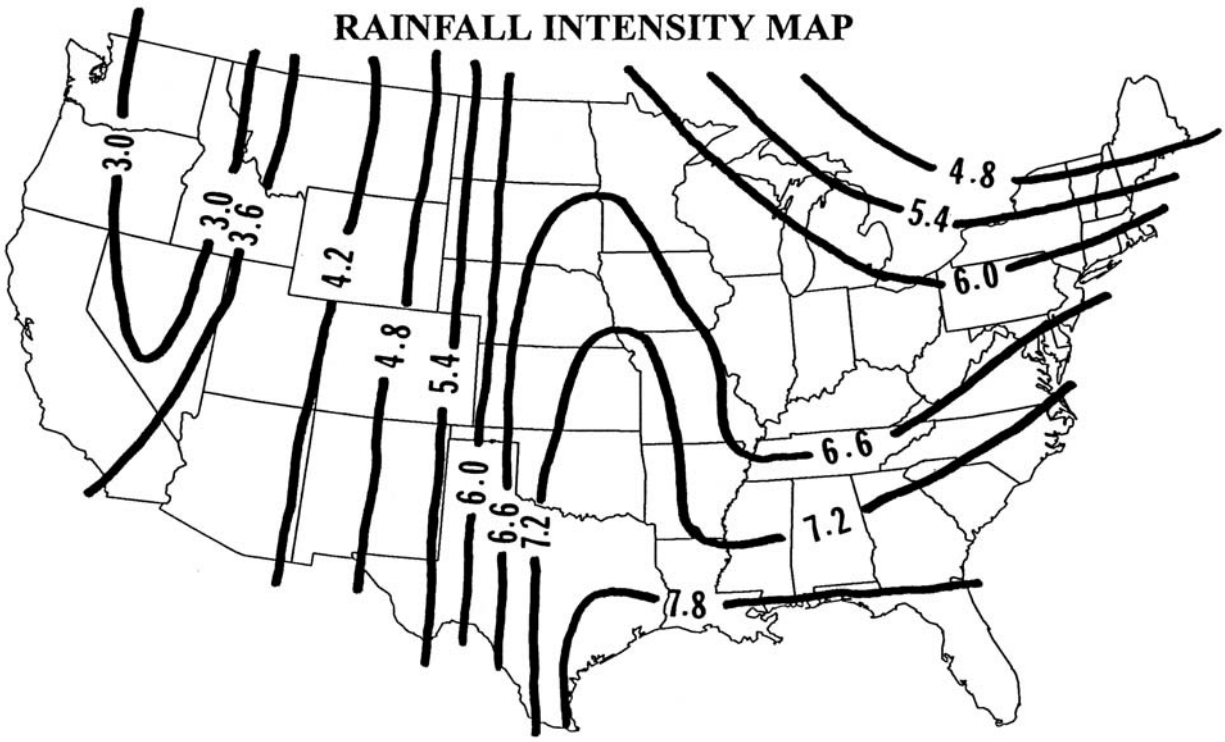
FLAT ROOF DRAINAGE REQUIREMENTS

Find the rain intensity for the building location on the map. Read down the intensity column and across the drain diameter line. The number which is found where the lines cross is the number of square feet of roof which can be drained by a single drain. Divide the area of the roof by the area per drain to find the number of drains needed for the building.

Round Drain Size	**Rain Intensity From Map**						
	2 in/hr	3 in/hr	4 in/hr	5 in/hr	6 in/hr	7 in/hr	8 in/hr
2	1,848 ft^2	1,256 ft^2	942 ft^2	753 ft^2	628 ft^2	550 ft^2	471 ft^2
3	4,239 ft^2	2,826 ft^2	2,120 ft^2	1,696 ft^2	1,413 ft^2	1,236 ft^2	1,060 ft^2
4	7,536 ft^2	5,024 ft^2	3,768 ft^2	3,014 ft^2	2,512 ft^2	2,198 ft^2	1,884 ft^2
5	11,755 ft^2	7,850 ft^2	5,888 ft^2	4,710 ft^2	3,925 ft^2	3,434 ft^2	2,944 ft^2
6	16,956 ft^2	11,304 ft^2	8,478 ft^2	6,782 ft^2	5,652 ft^2	4,945 ft^2	4,239 ft^2

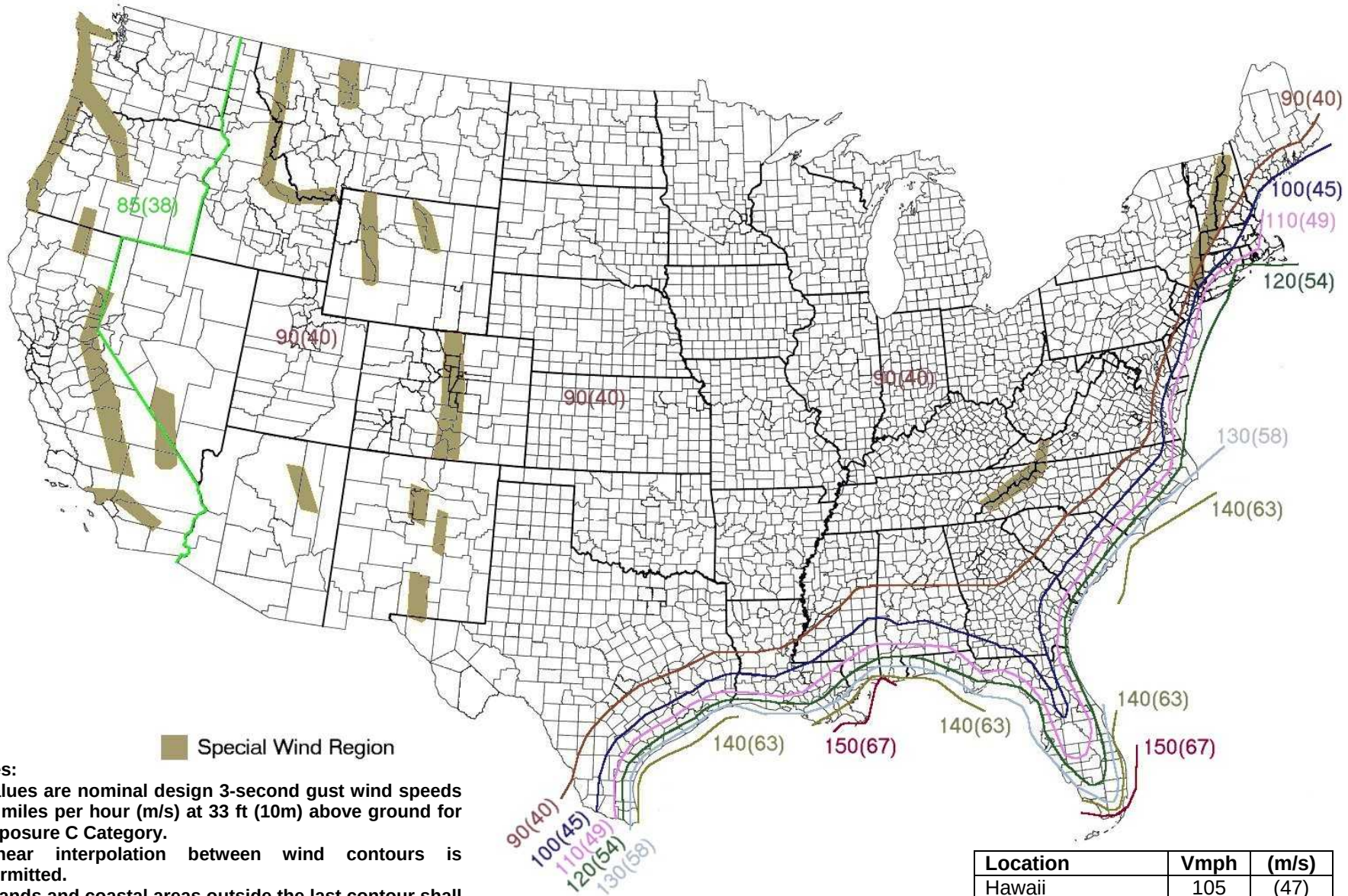
Example:
A building of 100,000 square feet in Chicago, IL has 6” roof drains. How many are required for proper drainage?

Chicago is in a 6 in/hr intensity zone. If you read down the 6 in/hr column and across the 6” diameter line you will find each drain will serve 5,652 sq. ft. When you divide 100,000 by 5,652 you will find 17.1 drains are required, which would be rounded to 18 – 6” diameter drains.



This map shows hourly rainfall in inches for 5 minute periods to be expected in 10 years. This is normally adequate for design but record storms have gone twice as high in some areas. For more accurate estimates, see local records.

This information is based on information from “ARCHITECTURAL GRAPHIC STANDARDS”, sixth edition.



Notes:

1. **Values are nominal design 3-second gust wind speeds in miles per hour (m/s) at 33 ft (10m) above ground for exposure C Category.**
2. **Linear interpolation between wind contours is permitted.**
3. **Islands and coastal areas outside the last contour shall use the last wind speed contour of the coastal area.**
4. **Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.**

Location	Vmph	(m/s)
Hawaii	105	(47)
Puerto Rico	145	(65)
Guam	170	(76)
Virgin Islands	145	(65)
American Samoa	125	(56)

ASCE 7-98 / ASCE 7-02 WIND MAP