

How to Measure a Groin Vault

Understanding the Measurements

Long Side= the longer wall
Short Side= the shorter wall
Rise= the curvature of the groin vault.



1

Determine the length of the long side of your groin vault by measuring your longer wall to the nearest 1/4".



2

Determine the length of the short side of your groin vault by measuring your shorter wall to the nearest 1/4".



3

Determine the rise of your groin vault. *Please note that your groin vault will drop an additional 3" due to the thickness of the material and installation techniques.*



4

Determine your location. The groin vault kit will be labeled with the location of where it will be installed. This will ensure accurate placement during installation.



Finding Your Rise

When determining your rise, you have several different approaches. The two most important factors that have an effect on "Finding Your Rise" are your clearance and your ceiling height.

Please refer to the "Clearance" section below to better understand how clearance can define your rise.

The second most important factor when determining your rise is your ceiling height. The lower your ceiling height the less rise you have available. Keep in mind the lowest point of a groin vault is its tips in each of the four corners. For example, lets say you have a room that has a 10'-0" ceiling height. If you choose to rise / drop 2'-0", the corners would be at 8'-0" from the floor, but your center would still be at 10'-0".

The most popular method for choosing a rise (keeping the clearance and ceiling height in mind) is using a multiplier. We have found that most builders like to use a 20% multiplier. They will multiply the short side by 20% to find their rise. In using the example below, the short side is 120". You would take 120" x 20% to arrive at your rise of 24" or 2'-0".

Clearance

A key factor in determining your rise is the location of your windows and doorways. A groin vault drops in its four corners with its center remaining the highest point. It is important to take note of the rise, as to not, extend into a window or doorway.

If you have any inquiries about the placement of your groin vault relative to your windows and doorways, please enlist our "2D or 3D CAD Me" services to be certain.

Still have questions? View the photo galleries or give us a call toll free.

Qty	Long Side	Short Side	Rise	Location
1	144	120	24	Dining Rm.