

# ESTIMATING BRICK VENEER

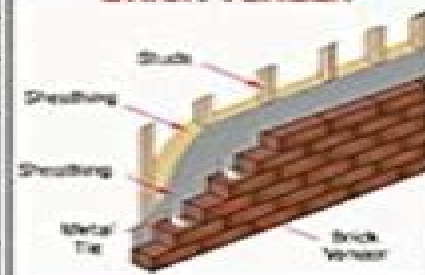
## BRICK VENEER & WALL TIES

- Wall ties are used to anchor the brick veneer to wood framed walls.
- Wall ties are made of 1/4 to 3/8-gauge hot-dipped galvanized steel.
- Wall Tie Width: 1 1/2"
- Wall Tie Length: 3 1/2" with 2" bends.
- One end of the wall tie must be nailed to the wood stud wall and the other end must be embedded in the mortar joints.
- Wall tie spacing: 16" in the horizontal direction and 24" in the vertical direction.
- Brick veneers placed as face bricks on the outside of a concrete masonry unit wall; wall ties must be fast with one end embedded in the mortar of the brick veneer and the other end embedded in the mortar of the concrete masonry unit wall.
- Column and beam flange straps are used to anchor brick veneer to structural steel framing.
- One end of the strap hooks must be around the flanges of the beam or column and the other end must be embedded in the mortar of the brick veneer or concrete masonry unit.

LABOR & MATERIALS FOR BRICK VENEER						
Mortar Joint	Wall Thickness	Material				Labor Per 100 sq ft of wall
		Brick	Grout	Grout	Grout	
1/4"	4"	Per 100 sq ft of Wall	Per 100 sq ft of Wall	Per 100 sq ft of Wall	Per 100 sq ft of Wall	Per 100 sq ft of Wall
1/4"	4"	600	600	600	600	600
1/4"	4"	600	600	600	600	600
1/4"	4"	600	600	600	600	600
1/4"	4"	600	600	600	600	600

Mortar required assumes 20% waste for all listed mortar joints.  
Brick are estimated to measure 8" x 2 1/4" x 2 1/4". See waste is included for brick.

## BRICK VENEER



# ESTIMATING STONE MASONRY

## STONE MASONRY

- Natural stones for construction include: sandstone, limestone, dolomite, slate, granite, marble, etc.
- Natural stone is available in many sizes.
- Each kind of stone and work should be estimated separately.
- The cost of stone in place can be estimated by the cubic yard, ton, cubic foot, square foot or linear foot.

## COST OF STONE

- The cost of stone varies according to the kind of stone, extent of cutting done at the quarry and the location of use of the stone.
- No estimate should be made without obtaining current prices for the particular stone.
- The cost of freight must be added to the total cost.
- Stone suitable for rubble masonry may be priced by the ton.
- Stones may be purchased at the quarry in large rough-cut blocks, hauled to the job and then cut to the desired sizes and shapes.
- The cost of blocks may be based on the volume.
- Note: The largest dimensions are used in determining the volume. The cost may also be based on the weight of the stone.
- Stones used for ashlar masonry may be priced by the ton, cubic foot or square foot of wall area for a specified thickness.

## ESTIMATING MORTAR FOR STONE MASONRY

- The mortar used for setting stones is similar to that used for brick masonry.
- Sometimes special non-staining white or stone-set cement may be specified instead of gray Portland cement. Check your specifications thoroughly.
- Hydrated lime is often added to improve the working properties of the mortar.
- The quantity of mortar required for joints will vary considerably based on: type of bond, thickness of joints and size of stones used.

## QUANTITIES OF MORTAR REQUIRED PER CY OF STONE MASONRY

Type of bond	Quantity of Mortar, cu ft
Coursed rubble	6.5-8.5
Random rubble	7.5-9.5
Coursed ashlar	6.5-8.5
Random ashlar, 1/2" joints	1.5-2.0
Random ashlar, 3/4" joints	2.0-2.5
Random ashlar, 1" joints	2.5-3.0
Random ashlar, 1 1/2" joints	3.0-3.5

\*This table gives representative quantities of mortar required per cubic yard of stone.

## WEIGHTS OF BUILDING STONES\*

Stone	Weight, lbs/cu ft
Dolomite	155-175
Granite	160-175
Limestone	150-175
Marble	160-175
Sandstone	140-150
Slate	160-180

\*This table gives the ranges in weights of stones commonly used for masonry.  
The given weights are expressed in pounds per cubic foot of volume.

## LABOR HOURS REQUIRED TO HANDLE & SET STONE MASONRY WITH DIFFERENT EQUIPMENT

Operation	Labor hours required			
	Per cy		Per sq ft	
	Shovel	Shovel	Shovel	Shovel
Unloading stones from truck	0.2-0.4	0.4-0.6	0.01-0.02	0.02-0.04
Rough squaring	4.0-10.0	—	0.40-0.20	—
Smoothing beds	5.0-10.0	—	0.20-0.40	—
Stone setting by hand	Labor hours required		Labor hours required	
	Per cy		Per sq ft	
	Shovel	Shovel	Shovel	Shovel
Rubble	2.5-4.0	3.0-4.0	0.08-0.15	0.10-0.20
Rough ashlar	3.0-4.0	4.0-5.0	0.05-0.20	0.05-0.30
Ashlar, 1/2 to 1" joints	10.0-15.0	10.0-15.0	0.30-0.50	0.30-0.50
Setting stone by using a hand trowel	Labor hours required		Labor hours required	
	Per cy		Per sq ft	
	Shovel	Shovel	Shovel	Shovel
Heavy ashlar, ashlar, ashlar, ashlar, etc.	2.5-3.0	10.0-15.0	0.08-0.15	0.10-0.20
Light ashlar, ashlar, ashlar, ashlar, etc.	2.5-3.0	10.0-15.0	0.08-0.15	0.10-0.20
Setting stone by using a crane or hoist - heavy ashlar	Labor hours required		Labor hours required	
	Per cy		Per sq ft	
	Shovel	Shovel	Shovel	Shovel
Crane operator	1.0-1.5	—	0.04-0.06	—
Stone setter	1.0-1.5	—	0.04-0.06	—
Hoists	—	2.0-14.0	—	0.20-0.30
Finishing wall stone	Labor hours required		Labor hours required	
	Per cy		Per sq ft	
	Shovel	Shovel	Shovel	Shovel
Heavy stone	0.5-0.8	0.2-0.4	0.02-0.05	0.05-0.10
Random	1.0-1.5	0.2-0.4	0.04-0.06	0.05-0.10

\*This table gives representative values of the labor hours required to handle and set stone masonry.  
The values given should be used for large straight walls, with plain surfaces, and the highest values for walls with irregular surfaces, piers, chimneys, special openings, etc.  
The values for handling will vary with the size of stones, heights, loading and equipment used.

## TYPES OF STONE MASONRY BONDS



COURSED RUBBLE



RANDOM RUBBLE



COURSED ASHLAR



RANDOM ASHLAR

## BONDS FOR STONE MASONRY

- The stones may be laid in courses or all random with mortar joints.
- Rubble masonry formed of stones of irregular shapes, laid in regular courses or all random with mortar joints.
- Ashlar masonry formed of stones cut with rectangular faces.

## STONE MASONRY WALL



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**Richard Pray**



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1. Understanding the eBook Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - The Rise of Digital Reading Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Advantages of eBooks Over Traditional Books
2. Identifying Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - User-Friendly Interface
4. Exploring eBook Recommendations from Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Personalized Recommendations
  - Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page User Reviews and Ratings
  - Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page and Bestseller Lists
5. Accessing Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page Free and Paid eBooks
  - Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page Public Domain eBooks

- Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page eBook Subscription Services
- Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page Budget-Friendly Options
- 6. Navigating Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page eBook Formats
  - ePub, PDF, MOBI, and More
  - Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page Compatibility with Devices
  - Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Highlighting and Note-Taking Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Interactive Elements Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
- 8. Staying Engaged with Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
- 9. Balancing eBooks and Physical Books Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Setting Reading Goals Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Fact-Checking eBook Content of Laminated Quick Card Construction Estimating Masonry Estimating Full Color 4 Page
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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