

How to Specify Cut Indiana Limestone

Source: Indiana Limestone Handbook, 21st Edition
Indiana Limestone Institute
<http://www.iliai.com/>

This section, describing production, should be used with Section II (Indiana Limestone Handbook) when mortar is the joint closer, or with Section III (Indiana Limestone Handbook) when sealants are used. If no coursed or rough ashlar is involved (see Section VI, Indiana Limestone Handbook), no further specifications are required for limestone in standard masonry buildings.

1. Work Included

The work under this contract shall include all labor and material necessary to furnish and satisfactorily install the Cut Indiana Oolitic Limestone in accordance with the drawings and as hereinafter specified.

2. Description of Stone

All limestone specified or shown on drawings shall be Indiana Oolitic Limestone, as quarried in Lawrence, Monroe, and Owen Counties, Indiana. Stone shall be

_____ (Specify grade & color)

and shall have a _____ finish.
(Specify finish)

3. Samples

The supplier or fabricator shall submit three (3) samples, ___ x ___" (specify size), for approval by the architect. The samples shall in general be typical of the grade, color and finish specified. This sample and the standards established by the Indiana Limestone Institute shall form the basis of the contract agreement.

4. Standard Practice

The architect reserves the right to approve the material supplier for cut stone before this portion of the work is awarded. Stone and workmanship quality shall be in accordance with Industry Standards and Practices as set forth by the Indiana Limestone Institute of America, Inc., Bedford, Indiana. The stone supplier shall be a member in good standing of that organization.

5. Cutting and Setting Drawings

The cut stone supplier shall prepare and submit to the architect for approval, complete cutting and setting drawings for all of the cut Indiana Limestone work. Such drawings shall show in detail the sizes, sections, and dimensions of stone, the arrangement of joints and bonding, anchoring and other necessary details. All jointing as shown by the architect on the contract drawings shall be followed, unless modifications are agreed upon in writing, or indicated upon the approved shop drawings. If the contract drawings do not show the intent of the jointing, it will be the fabricator's responsibility to establish the jointing in accordance with industry standards and practices. The general contractor shall furnish all field dimensions necessary for fabrication.

The cutting and setting drawings shall be based upon and follow the drawings and full size details prepared by the architect except where it is agreed in writing or shown on the approved shop drawings that changes be made. Each stone indicated on the setting drawings shall bear the corresponding

number marked on an unexposed surface.

Provision for the anchoring, dowelling, and cramping of work, in keeping with standard practices, and for the support of stone by shelf angles and loose steel, etc., when required, shall be clearly indicated on the cutting and setting drawings.

6. Carving and Models

All carving shall be done by skilled carvers in a correct and artistic manner, in strict accordance with the spirit and intent of the approved shaded drawings, or from models furnished or approved by the architect.

7. Cutting

All stone shall be cut accurately to shape and dimensions and full to the square, with jointing as shown on approved drawings. All exposed faces shall be dressed true. Beds and joints shall be at right angles to the face, and joints shall have a uniform thickness of 3/8" unless otherwise shown or noted on drawings.

Reglets for flashing, etc., shall be cut in the stone where so indicated on the drawings.

Molded work shall be carefully executed from full size details supplied by architect, and must match satisfactorily at joints. All exposed arrises shall be in true alignment and slightly eased to prevent snipping.

8. Repairing Damaged Stone

Repair of stone is an accepted practice and will be permitted. Some chipping is expected; repair of small chips is not required if it does not detract from the overall appearance of the work, or impair the effectiveness of the mortar or sealant. The criteria for acceptance of chips and repairs will be per standards and practices of the industry unless other criteria are mutually agreed upon by the limestone supplier and the architect.

9. Back-checking and Fitting to Structure or Frame

Stone coming in contact with structural work shall be back-checked as indicated on the approved shop drawings. Stones resting on structural work shall have beds shaped to fit the supports as required.

Maintain a minimum of 1" between stone backs and adjacent structure. (Note: many bolted connections will require more space than this; 2" space may be more desirable. Large-scale details should illustrate and control these conditions.)

10. Cutting for Anchoring, Supporting, and Lifting Devices

Holes and sinkages shall be cut in stones for all anchors, cramps, dowels and other tie-back and support devices per industry standard practice and/or approved shop drawings. However, expansion anchor holes shall be drilled at jobsite by mason or erector to facilitate alignment.

No holes or sinkages will be provided for contractor's handling devices unless arrangement for this service is made by the contractor with the stone supplier.

Note: It is not recommended that Lewis pins be used for stones that are less than 3 1/2" thickness.

11. Cutting and Drilling for Other Trades

Any miscellaneous cutting and drilling of stone necessary to accommodate other trades will be done by the cut stone fabricator only when necessary information is furnished in time to be shown on their shop drawings and details, and when work can be executed before

fabrication. Cutting and fitting, due to jobsite conditions, will be the responsibility of the general contractor.

Incidental cutting such as for window frame clips, etc., which is normally not considered to be the responsibility of the stone supplier, will be provided only by arrangement by the contractor with the stone supplier.

12. Loading and Shipment

The cut Indiana Limestone shall be carefully packed for transportation with exercise of all customary and reasonable precautions against damage in transit. All cut stone under this contract shall be loaded and shipped in the sequence and quantities mutually agreed upon by the general contractor or erector and the material supplier.

13. Unloading and Storage at Job Site

All stone shall be received and unloaded at the site with necessary care in handling to avoid damaging or soiling. Stone shall be stored clear of the ground on non-staining skids (cypress, white pine, poplar, or yellow pine without an excessive amount of resin). Chemically treated wood should not be used. DO NOT use chestnut, walnut, oak, fir, and other woods containing tannin.

Stone shall be covered with waterproof paper, clean canvas or polyethylene.