

Professional Services

- + Roof consulting
- + Construction documentation and administration
- + Condition assessment reports
- + Leak investigations
- + Cost estimating
- + Hands-on surveys and test probes
- + Historic building restoration and rehabilitation
- + Facilities maintenance plans
- + Materials analysis and selection
- + Preservation planning

Steep-Slope Roofing

- + Slate
- + Wood shingles
- + Clay tile
- + Standing seam and batten seam copper
- + Asphalt shingles
- + Flashings
- + Rainwater conduction systems

Low-Slope Roofing

- + Flat seam copper
- + Built-up roofing
- + Modified bitumen systems
- + EPDM
- + Fluid-applied systems
- + Flashings

Building Envelope

- + Exterior masonry
- + Windows and doors
- + Stained and leaded glass
- + Architectural woodwork
- + Ornamental ironwork
- + Steeples, parapets, and cornices

Competence

- + Expertise in roofing technology and building pathology
- + Holistic approach to identifying and treating deterioration
- + Hands-on, up-close surveys from ladders and high reach equipment
- + Principal involvement in all projects
- + Attention to detail
- + Close client collaboration
- + Frequent site visits during construction to monitor quality
- + Continuously refining our understanding of building technologies

SOLUTIONS FOR THE ENTIRE BUILDING ENVELOPE

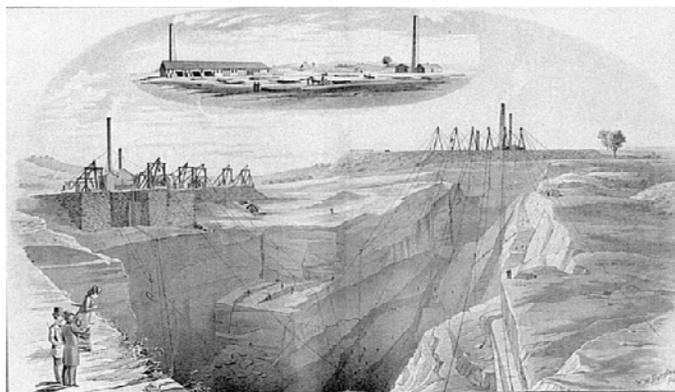
Pennsylvania Hard-Vein Slate

The slate belt of Pennsylvania consists of two types of slate known as "hard-vein" and "soft-vein." The lower, hard-vein belt, also known as Chapman Slate, occurs furthest south, passing through Edelman, Belfast, and Chapman Quarries in Northampton County.

Chapman Quarries, PA derives its name from William Chapman, a Welsh quarry worker who came to America in 1842 and opened the Chapman Slate Co. in 1850. In 1866, The Hon. Richard Chapman (photo at right), William's half-brother, became superintendent of the quarry.



After some years of exposure, hard-vein slate used for roofing purposes takes on a more pronounced streaked appearance as the ribbons become more prominent and can be seen to be oriented at various, random angles across the face of the slate (see photo at bottom of column). In some environments, weathered slates can take on a light orange hue. Wall cladding slates sometimes turn a matte green color.



Data accompanying the quaint, c.1875 print shown above indicates the large extent of the quarry: 700 feet long, 300 feet wide, and 225 feet deep.

Pennsylvania Hard-Vein slate is blue-black in color when freshly quarried. Its cleavage surface, or face, is marked by closely spaced, light and dark colored ribbons that give the slate a streaked appearance. Today, this can best be seen on vertical walls, where the slate is somewhat protected from the weather (photo at top of next column).



(Continued on reverse)

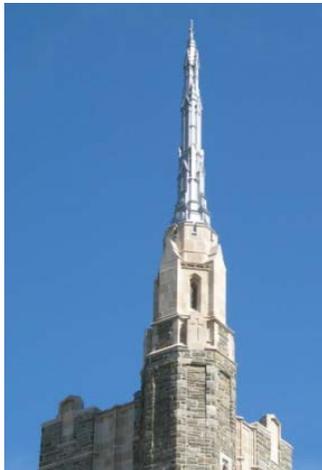
PENNSYLVANIA HARD-VEIN SLATE CONT'D.

For those seeking to replace an entire roof with matching material, there are few options. No slate currently on the market matches the unique character of the Pennsylvania Hard-Vein. The closest resemblance comes from a Vermont slate known as Strata Gray. Strata Gray is characterized by an overall grayish background with mottling in various shades of darker gray and black (photo at right). It can also display some weathering, whereby the slates can take-on subtle shades of buff, brown, tan, and orange over time.



PROJECT NEWS

Bryn Mawr Presbyterian Church: The new, 30-foot tall, lead coated copper spire previously reported as being fabricated by Campbellsville Industries, Inc. (Ridgewalker News, Winter 2014) was installed in late March without a hitch, much to the delight of several dozen spectators. The tower was lifted via crane, leveled, and bolted in position. The spire's internal lightning protection cable was then connected to a previously installed conductor cable that runs to a ground rod at grade.



All Campus Dining Center (ACDC), Vassar College: Phase 1 of the ACDC roof replacement project received a Gold Circle Award for Outstanding Workmanship – Steep Slope from the National Roofing Contractors Association. The award went to Hayden Building Maintenance Corp., Nyack, New York, who, working to L&Co.'s specifications and detailed design drawings, did an outstanding job replacing the building's mottled purple and green slate roof, copper built-in gutters, flat seam copper roofing, and gold leafing the existing copper finial.



Ridgewalker News

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