

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

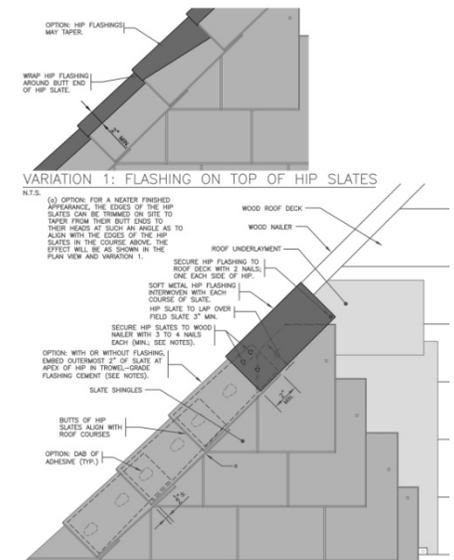
Slate Roofs: Design and Installation Manual

The National Slate Association (NSA) was first established in 1922 to promote the use of natural slate in roofing and structural applications. The Association disappeared during the Great Depression and was re-organized in 2002 as a non-profit group dedicated to promoting excellence in slate roofing practices. In furtherance of this goal, NSA published *Slate Roofs: Design and Installation Manual* in 2010. The Manual is a comprehensive, technical guide to slate, including material properties and proper design and installation methods of slate roofs and associated flashing systems. Prior to 2010, there was no slate roof resource as detailed and thorough as this new Manual and the design and construction industries were relying largely on a handful of standard slate details published by the National Slate Association in 1926. The new Manual aims to serve as a new industry standard. It provides an unparalleled knowledge base for designers, specifiers, and contractors, thereby, encouraging greater awareness and achievement of the inherent benefits of slate roofs, such as exceptional durability and longevity.

The Manual begins with the characteristics of slate, including its formation and composition, available sizes and colors, identification of slate producing regions, and ASTM standards. Chapter 2 describes basic principles of slate roofing, such as required tools and associated materials, blending and sorting, proper nailing, and slate roof layout. Chapters 3 through 5 comprise 171 pages of

detail drawings and notes regarding design and installation of slate, underlayments, and flashings at specific roof locations. The details encompass new roof construction, existing roof repair, and specialty slate installations. Where applicable, options and variations of the details are also shown. Extensive tables and figures throughout the Manual, as well as several appendices, provide supporting illustrations and additional data.

Slate Roofs: Design and Installation Manual is an invaluable reference for designers, contractors, and even homeowners and facilities managers who have slate roofs to maintain. To learn more about the NSA, view the Manual's table of contents, or place an order, visit the National Slate Association's website at www.slateassociation.org.



Detail of a slate saddle hip from *Slate Roofs: Design and Installation Manual*. Printed with permission from the National Slate Association.

NSA TO INTRODUCE NEW MOBILE ILLUSTRATED GUIDE

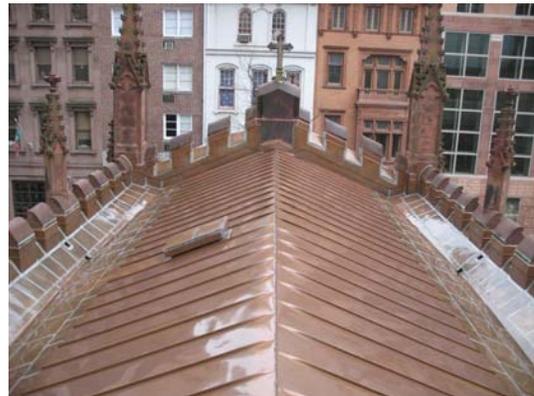
The National Slate Association will soon be launching a new web-based illustrated guide of *Slate Roofs Design and Installation Manual*. Select details from the Manual will be displayed as interactive animations, allowing viewers to see the detail constructed layer-by-layer right on the screen. The new illustrated guide will be accessible on mobile devices, such as smart phones and tablets, as well as on desktop and laptop computers, ensuring that the details are always at your fingertips, no more than a click away!

Stay tuned to NSA's website, www.slateassociation.org, for the new illustrated guide, coming soon.

2013 PRESERVATION ACHIEVEMENT AWARDS

Levine & Company participated on the design team for two projects that were recently selected to receive Preservation Achievement Awards by The Preservation Alliance of Greater Philadelphia. Levine & Company designed a new fluid-applied membrane roof for The Rodin Museum, as part of a larger exterior rehabilitation project.

In addition, Levine & Company designed the roof replacement for the Lady Chapel of St. Mark's Church, which took place in conjunction with an interior restoration project. The existing standing seam copper roof and wide, copper-lined built-in gutter were replaced, in kind, deteriorated wood gutter framing and sheathing was replaced, and new overflow scuppers, embrasure flashings, and wall cladding installed.



View of the new copper roof at the Lady Chapel of St. Mark's Church in Philadelphia.

Ridgewalker News



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