Roof Anchor Design and Testing

Mattson Macdonald Young provides structural design and testing services for Roof Anchors. This includes anchors and tie-off points used for fall protection, fall arrest, rope descent systems, and swingstages. In many cases the roof anchors are a simple standoff post and loop, but other buildings require davits, outriggers, or custom equipment to provide safe means of access to building exteriors. We are familiar with common manufactured roof anchors, and have also designed custom anchors for different scenarios.

MN OSHA LEGISLATION

Per Minnesota law effective March 1, 2012, written documentation is required for roof anchors used for window washing and exterior building maintenance. This suggests testing all roof anchors and annually inspecting their condition.

Link: http://www.dli.mn.gov/WindowWashingStandard.asp

ANSI / IWCA STANDARDS

This industry standard provides more descriptive guidance for window washing safety. MMY typically recommends compliance with applicable portions of ANSI / IWCA I-14.1-2001.

Link: https://www.iwca.org/store/view_product.asp?id=1441533

MMY SERVICES

As a full-service structural engineering firm, our staff has experience in many aspects of roof anchor systems:

- · Reviewing existing roof anchor systems for compliance with applicable codes and industry standards
- · Layout of anchorage points for one-person rope-descent or swing-stage access to building exterior.
- Producing drawings and specifications depicting tie-off and
- . Analyzing existing rooftop structure as "natural anchors".
- . Providing engineering analysis and drawings for existing or new
- . Designing new anchorage points and their attachment to existing roof structure.
- Testing of existing and new anchors
- · Reporting testing results and code compliance.

In addition to providing clear and complete drawings and plans, MMY is equipped to handle all of your design and submittal needs including:

- calculation submittals
- coordination with code officials
- professional certification
- · bills of material
- specialty submittals
- project management: subcontracting architects, mechanical engineers, and other specialists as necessary.

ABOUT US

For 29 years, MMY has provided code compliant structures with economical designs. MMY is large enough to handle big projects yet small enough to maintain personalized communication and coordination. We enjoy the work we do and, most importantly, the people we work with. MMY engineers are licensed in Minnesota, North Dakota, South Dakota, Wisconsin, Iowa and more.

CONTACT

Contact us for an estimate on your next roof anchor design project, Kirk Davis, PE kirk@mattsonmacdonald.com 612-827-7825 Minneapolis, MN 55401

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