

Site Walk Report: Insulation (SV2)

File Number #8682 Building Code MN Code
Site Walk Date 2011-02-11



Home
29070 Dinsmore Ave
Randolph, MN 55065

Builder
Lakeland Custom
Remodeling
9390 212th St West
Lakeville, MN 55044

Model
Custom
Type: Not Available

Insulation Features

Insulation Grade Level	I
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TBC Failures need correcting

0

Issues could use improvement

6

Exceptional building practices identified



Exceptional Building Practices

The following items are demonstrative of exceptional construction practices and details. Not only have you exceeded standard building practices, it has been done so in an exceptional manner.

1

Top plate penetrations

Penetrations in framing can lead to uneven interior surface temperatures and unconditioned air leakage into the structure. Seal penetrations before insulation and vapor retarder are installed.



Figure 1.1

2

Insulation missing/voids/compressions

Insulation performance is reduced by voids and leads to building durability issues, uneven interior surface temperatures, occupant discomfort, and high utility costs. Install insulation in all cavities for full thermal coverage, without voids, gaps, and compressions and in full contact with the vapor barrier.



Figure 2.1

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3 Top plate gaps

Gaps in framing at the top plate can lead to uneven interior surface temperatures and unconditioned air leakage in the structure. Foam all penetrations and apply sealant at the seam between double top plates when attaching poly to framing.



Figure 3.1



Figure 3.2

4 Insulation missing/voids/compressions

Insulation performance is reduced by voids and leads to building durability issues, uneven interior surface temperatures, occupant discomfort, and high utility costs. Install insulation in all cavities for full thermal coverage, without voids, gaps, and compressions and in full contact with the vapor barrier.



Figure 4.1

5 Attic framing/sheathing gaps

Gaps can lead to uneven interior surface temperatures and unconditioned air leakage into the structure. Seal all framing and sheathing gaps before insulation and vapor retarder are installed.



Figure 5.1

6 Wind wash baffle gaps

Gaps between the wind wash sheathing, attic chutes, and framing must be sealed to prevent air from blowing underneath attic insulation and cooling/heating the ceiling below. Air movement through attic insulation reduces the thermal performance of the insulation and can affect the comfort of occupants during both heating and cooling seasons. Foam / caulk gaps before insulation.



Figure 6.1

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Residential Science Resources, LLC respects the privacy of Lakeland Custom Remodeling and will keep all of this information confidential and not disclose this or any other information without expressed written consent. Thank you for the opportunity to assist you in the construction of your homes.

Sincerely,

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Residential Science Resources, LLC

Residential Science Resources, LLC is an independent building performance testing and certification company following RESNET guidelines. RESNET sets the standards of quality for the building energy performance certification industry (Home Energy Rating System – HERS Rating). The EPA requires homes to meet its strict standards for the ENERGY STAR® certification following RESNET guidelines.