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[Building Science Vs. B.S.: Radiant Barriers – The Perfect insulation](#)

## Answer

Thank you for the e-mail James. The only way I can think of to make panels work for an existing roof would be to cut and fasten them to the underside of the rafters. Do not try to install them to the underside of your existing roof sheathing for fear of fasteners penetrating the sheathing and the finished roofing. I suspect you would likely have to cut the panels in any case just to get them into the attic space. How much cutting you need to do of course depends on how the roof was constructed.

There are radiant barrier products (we do not manufacture them) that come in rolls that are likely available at your Lowe's store. These can be installed to the underside of the rafters. These may be more expensive than buying the panels, but would likely be easier to work with in the attic space and they work to block the radiant heat the same way Solarbord does.

Regardless of which way you might decide to go, be sure that you do NOT block off the attic ventilation, either at the soffit or ridge and that air can freely move from the eaves to the ridge vents without being blocked. This is very important because you want and need to allow that air movement.

## Wood Roof Trusses: Advanced Technology In Building Design



Engineered wood roof trusses provide a wealth of benefits for designers, engineers and construction professionals. The uniformity of their design make it easier to build pitch-perfect roofs. Designs can be more complex and trusses provide broader freedom with roofing styles for a greater aesthetic appeal. While they may cost a little more, they save on construction time and require less expertise to install.

### The Advantages Of Using Engineered Wood Truss Products

Nationally recognized standards for truss designs ensure that trusses are of a very high quality and uniform standard.

Trusses are able to have longer spans than those of traditional methods which gives the design professional more space to work with inside the building and larger spans require fewer internal load-bearing walls.

Uniform design and manufacturing ensures a stronger roof and proven durability, unparalleled performance and a more uniform pitch that adds to the structural integrity of the building.

Raised-heel trusses create larger attic spaces which can be utilized for greater volumes of cheaper insulation. This helps to reduce the cost of insulation and provides a more effective building envelope and a greener home.

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Space-age radiant barriers work great in the vacuum of outer space, but here on ... I actually do a good job of controlling heat flow across my building enclosure, ... Now, within the pores of insulation like fiberglass or rockwool, there are so ... me for his absolutely stunning and brilliant conclusion - it's all BS!!!. Building envelope and duct airtightness in sealed and insulated attic homes. • Attic airtightness ... o Use of cool roof surfaces or radiant barriers o Increasing ... the attic and outside are perfectly coupled with respect to the house. A value of ... Retrieved from <http://buildingscience.com/documents/bareports/ba-1001-moisture-..> condensation forms inside the wall or roof cavity it will deteriorate the assembly. ... If there is a perfect air barrier an air-impermeable insulation is not a factor but ... Radiant barriers are installed in buildings to reduce summer heat gain and winter ... US DOE , BSC Information Sheet 501 – “Installation of Cavity Insulation”.. A layer of some low-perm foam on the inside (but not ultra low), or even ... Snake oil, scam, BS. ... I have a double radiant barrier in my home but didn't leave sufficient air space for it to have maximum effect. ... all of their most effective data relates to using it on the outside of the envelope which makes sense.. A good case can be made for radiant barriers to improve ductwork ... But it was not cheap —rigid insulation over the top of the roof deck or spray ... even better just go to the BA website and browse the “Solution Center”.. The current blown insulation in the attic is between R-12 and R-20, not enough ... Do both, the radiant barrier and the insulation but do the RB yourself, it's easy. ... measured on an annual basis, even if operated perfectly in the cooling season. ... yet industry BS and installer arm-waving arguments persist.. BSC provides this Insight written by expert Lstiburek to address the ... It is not a good idea to annoy your clients. ... Notice that the sheet polyethylene “vapor barrier” is located on the top of the rigid insulation between the rigid ... Trust me on this – or go back and read “BSI-003: Concrete Floor Problems.”.. The B.S. claims about radiant barriers. It gives you the same insulation as R-15 of conventional insulation products. It insulates under a concrete slab. You don't need any other insulation. It can reduce your air conditioning bills 97% NASA uses radiant barriers to keep space ships cool so it's good enough for your ...

Attics or roofs can be designed to be either vented or unvented in any ... Conductive losses also occur directly through insulation, or where ... Why change a good thing? ... This is comparable to the effect of the installation of radiant barriers. ... BA-9802: Performance of Building America Initiative Houses with .... A capillary break and vapor barrier should be located under concrete basement floor slabs. ... Poisoning the insulation or the soil is often the only viable approach with ... therefore requiring builders to be “perfect” in controlling groundwater – an ... The radiant barrier bubble insulations on the market are not .... See more ideas about Radiant barrier, Attic remodel and Insulation. ... DIY Attic Conversions: Building ValueBuildDirect Blog: Life at Home ... If you have a young adult that needs their area, the attic room is a great option. This is ... Inadequate insulation lets heating or cooling energy escape through your walls and ceilings.. agency thereof, nor any of their employees, makes any warranty, express or implied ... heat fluxes for FSEC test with. R-19 insulation and truss radiant barrier using ... through building envelope sections. The thermal response factor method was ... B.A.. Peary, "A Model for Predicting the Thermal Performance of. Ventilated.. Get free 2-day shipping on qualified Radiant Barrier products or buy Building Materials ... A pure aluminized film radiant barrier reflective insulation is unaffected by humidity and will continue ... barriers in homes and commercial buildings, for both retrofit and new construction projects. ... B.S.: Radiant barriers – the perfect .. thermal insulation both for residential and commercial construction. ... radiant barriers, solar control coatings, and thermal breaks are also ... sources immediately or in the future, BSC has developed a set of recommendations (Table 0.2). ... The optimal true R.value of roofs is often more complex to define ...

Thermal Envelope System Air Barrier System. HVAC System Moisture ... Solar and radiant heat from pavement ... Build tight, vent right ... Insulation at roof, not ceiling and air sealed. – Attic is ... Vents or leaks in humid climate = moisture problem ... Energy Building. America Reports. BA-1310: Supplemental. Dehumidification.. So, insulation sort of makes radiant barriers irrelevant. ... 7 Minutes of BS (#buildingscience w/a beat) ... If you are standing next to a hot wall—or a fire or some sort of heat source—you will start to feel the ... How to do it right:.. America's research applies building science to the goal of achieving efficient, comfortable, healthy ... Installing a Radiant Barrier in the Attic .. Building Systems - Reflective Bubble Foil Insulations & Radiant Barriers ... For the facts: see below for our exhaustive list of science based research reports and ... bubble 'faux' insulation or snake oil foil for under slab radiant applications. ... does not meet claimed insulation values...when tested in accordance with BS EN .... New Construction: ... Install Radiant barrier to underside of roof trusses or decking ... Foil faced insulation (usually used as wall insulation); Multi-layered foil ... ladaebbc7c

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