

BRS, Inc. 13808 Santa Fe Crossings Dr. Edmond, OK Ph 405 607 8877	TECHNICAL BULLETIN Insulation Spacer Blocks	Bulletin No. PC17 Revision No. 1 Date: April 15, 2021
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These are general guidelines, and the roof designer is responsible for choosing the proper clip and thermal block combination based on the insulation densities they are specifying and/or energy code requirements. Under filled cavities can allow roof rumble or foot traffic problems and over filled cavities can cause pan distortion or purlin read through. Over filling the cavity also causes panel module/ coverage to grow due to the panel pan being held above the designed elevation for the respective clip height. This chart was constructed with 1/8" of space per 1" of compressed insulation. Verify with the insulation manufacturer per their density and adjust accordingly.

TS-324 Open Framing

Insulation Thickness	Standard Stand-offs		Extended Stand-off		
	1/2" Stand-off	1 1/2" Stand-off	2" Stand-off ²	2 1/2" Stand-off ²	3" Stand-off ²
No Insulation	1/2" Block	Unsuitable	Unsuitable	Unsuitable	Unsuitable
3" insulation	Not Required	1" Block	Unsuitable	Unsuitable	Unsuitable
4" insulation	Not Required	3/4" Block	Unsuitable	Unsuitable	Unsuitable
6" insulation	Unsuitable	1/2" Block	1" Block	Unsuitable	Unsuitable
8" insulation	Unsuitable	Not Required	3/4" Block	1" Block	Unsuitable
10" insulation ¹	Unsuitable	Unsuitable	1/2" Block	3/4" Block	1" Block
12" insulation ¹	Unsuitable	Unsuitable	Not Required	1/2" Block	3/4" Block

1. Insulation should be slit at clips or combination of 6" faced insulation and 2' wide unfaced batts used.
2. BRS recommends use of module tools during roof panel installation.

TS-324 Over Screw-Down Roof (1 1/4" major ribs)

Insulation Thickness	Extended Stand-off		
	2" Stand-off ²	2 1/2" Stand-off ²	3" Stand-off ²
No Insulation	Unsuitable	Unsuitable	Unsuitable
3" insulation	3/8" block	3/4" block	Unsuitable
4" insulation	not required	5/8" block	1" block
6" insulation	Unsuitable	1/2" block	3/4" block

1. Roof designer required to determine existing roof vapor barrier suitability.
2. BRS recommends use of module tools during roof panel installation.

PanelCraft Over Screw-Down Roof (1 1/4" Major Ribs)

Insulation Thickness	Extended Stand-off
	2" Stand-off ²
No Insulation	Unsuitable
3" insulation	3/8" block
4" insulation	not required
6" insulation	Unsuitable

PanelCraft Open Framing

Insulation Thickness	Standard Stand-offs			Extended Stand-off
	0" Stand-off ¹	1/2" Stand-off	1 1/2" Stand-off	2" Stand-off
No Insulation	Not Required	1/2" Block	Unsuitable	Unsuitable
3" insulation	Unsuitable	Not Required	1" Block	Unsuitable
4" insulation	Unsuitable	Not Required	3/4" Block	Unsuitable
6" insulation	Unsuitable	Unsuitable	1/2" Block	1" Block
8" insulation ³	Unsuitable	Unsuitable	Not Required	3/4" Block
10" insulation ^{2,3}	Unsuitable	Unsuitable	Unsuitable	1/2" Block
12" insulation ^{2,3}	Unsuitable	Unsuitable	Unsuitable	Not Required

1. Available in fixed clip only.
2. BRS recommends use of module tools during panel installation.
3. Insulation should be slit at clips or combination of 6" faced insulation and panel width unfaced batts used.

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