

CHEERS SUPPLEMENTAL HERS RATER INSPECTION FORM

CHEERS-ENV-22

Quality Insulation Installation - Insulation Stage Checklist – May 2012

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Site Address:

HERS Rater:

Date:

✓ FLOOR INSULATION

<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	All floor joist cavity insulation installed to uniformly fill the cavity side-to-side and end-to-end, NO gaps. (NA if slab on grade)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Insulation in full contact with the subfloor, NO gaps. (NA if slab on grade)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Batts: cut to fit around wiring and plumbing, or split (delaminated). (NA if loose fill, SPF, or slab on grade)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Batts: shall be properly supported to avoid gaps, voids, and compression. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Insulation R-value same or greater than listed on CF-1R. (NA for slab on grade)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Gaps between studs larger than 1/8" the cavity must be filled with insulation or foam. (NA for slab on grade)
		<input type="checkbox"/> NA	SPF: list the required floor cavity R-value from CF-1R, R- <input type="text"/> . Determine required thickness for ccSPF (required R-value <input type="text"/> / 5.8R) = <input type="text"/> inches), or required thickness for ocSPF (required R-value <input type="text"/> / 3.6 = <input type="text"/> inches). (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	SPF: measure thickness of floor insulation in 6 random areas. Minimum thickness for ccSPF shall be no more than 1/2 inch less than the required thickness listed above. Minimum thickness for ocSPF shall be no more than 1 inch less than the required thickness listed above. (NA for other forms of insulation)

✓ WALL INSULATION

<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Batts, loose fill mineral fiber, mineral wool, and cellulose: fills cavity and is in contact with air barrier. ocSPF: shall completely fill cavities of 2x4 inch framing or less. Cavities greater than 2x4 inch framing dimensions must be filled to the thickness calculated above. ccSPF: insulation is not required to fill the cavities of framed assemblies provided the installed thickness of insulation conforms to the thickness calculated above.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Double walls and bump-outs: insulation fills the cavity or additional air barrier installed in the cavity so that the insulation fills the cavity and in contact with the air barrier. (NA if SPF meets conditions above and meets the required R-value)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Insulation installed in exterior walls adjacent to tub/shower, walls under stairs, and fireplace. Insulation required to fill wall cavity. Cavity required to be air tight. (NA if none of the above)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	All gaps around windows and doors filled with insulation or sealed, caulked, or filled with L-Low expanding foam.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Batts: no voids/depressions greater than 3/4" in ANY stud bay. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Batts: voids/depressions less than 3/4" allowed as long as the area is not greater than 10% of the surface area for each stud bay. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Loose Fill: no gaps or voids. Insulation completely fills the cavity. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Gaps between studs larger than 1/8" the cavity must be filled with insulation or foam.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	All Rim-joists to the outside insulated. (NA if no Rim-joists)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Insulation installed at corner channels, wall intersections, and adjacent to tub/shower enclosures insulated to proper R-Value.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	All skylight shafts and attic kneewalls insulated with minimum R-19. (NA if no skylights or kneewalls)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Insulation in full contact with air barrier or wall finish in all exterior assemblies, including skylight shafts and attic kneewalls. (NA if no skylight or kneewalls)

CHEERS SUPPLEMENTAL QUALITY ASSURANCE FORM

CHEERS-ENV-22

Quality Insulation Installation - Insulation Stage Checklist – May 2012

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Site Address: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	HERS Rater: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	Date: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
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<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Installed wall insulation R-value equal to or greater than what is listed on the CF-1R.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	SPF: insulation installed without gaps and to provide an air seal when specified as an air barrier. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	SPF: list the required wall cavity R-value from CF-1R, R- <input style="width: 40px;" type="text"/> . Determine required thickness for ccSPF (required R-value <input style="width: 40px;" type="text"/> / 5.8R = <input style="width: 40px;" type="text"/> inches), or required thickness of ocSPF (required R-value <input style="width: 40px;" type="text"/> / 3.6 = <input style="width: 40px;" type="text"/> inches). (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	SPF: measure thickness of wall insulation in 6 random areas. Minimum thickness for ccSPF shall be no more than ½ inch less than the required thickness listed above. Minimum thickness for ocSPF shall be no more than 1 inch less than the required thickness listed above. (NA for other forms of insulation)
✓ CEILING / ROOF INSULATION			
<input type="checkbox"/> Yes	<input type="checkbox"/> No		Gaps between studs larger than 1/8" the cavity must be filled with insulation or foam.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Batts: no gaps/voids/depressions greater than 3/4". (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Batts: voids/depressions less than 3/4" allowed as long as the area is not greater than 10% of the surface area for each stud bay. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Loose Fill: NO gaps or voids allowed. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No		All ceiling/roof insulation installed to uniformly fit the cavity side-to-side and end-to-end.
<input type="checkbox"/> Yes	<input type="checkbox"/> No		Insulation in full contact with the ceiling/roof, NO gaps.
<input type="checkbox"/> Yes	<input type="checkbox"/> No		Insulation in contact with air barrier.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Batts: cut to fit around wiring and plumbing, or split (delaminated). (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Batts taller than bottom chord must expand over the bottom chord or additional insulation installed so bottom chord not visible. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Batts cut to fit around ALL webbing. No gaps allowed between webbing and batts. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	SPF: list the required ceiling R-value from CF-1R, R- <input style="width: 40px;" type="text"/> . Required depth of insulation for ccSPF (required R-value <input style="width: 40px;" type="text"/> / 5.8R = <input style="width: 40px;" type="text"/> inches), or required depth of ocSPF (required R-value <input style="width: 40px;" type="text"/> / 3.6 = <input style="width: 40px;" type="text"/> inches). (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	SPF: measure thickness of ceiling insulation in 6 random areas. Minimum thickness for ccSPF shall be no more than ½ inch less than the required thickness listed above. Minimum thickness for ocSPF shall be no more than 1 inch less than the required thickness listed above. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	HVAC Platforms and Catwalks- insulated to R-Value equal to ceiling R-value listed on CF-1R. If less insulation installed than called out on CF-1R. (NA if no platform or catwalk)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Attic access gasketed. (NA if no attic access)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Attic access insulated with rigid foam or batt insulation using adhesive or mechanical fastener. Attic access door R-value equal to ceiling R-value listed on CF-1R. (NA if no attic access)

Site Address:

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Date:

<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Recessed light fixtures covered full depth with insulation. If SPF used then other forms of insulation used to cover or enclose fixture in a box fabricated from 1/2-inch plywood, 18 ga. sheet metal, 1/4-inch hard board or drywall. SPF or other insulation then covers light fixture to full depth. (NA if no recessed light fixtures)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	All recessed light fixtures in non-conditioned space are IC rated and air tight (AT). (NA if no recessed light fixtures)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	All recessed light fixtures are sealed with a gasket or caulk between the housing and the ceiling. (NA if no recessed light fixtures)
<input type="checkbox"/> Yes	<input type="checkbox"/> No		Ceiling insulation equal to or greater than what is listed on the CF-1R.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Loose Fill: insulation at proper depth and insulation rulers visible for verifying the installed R-value for blown in insulation. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Loose Fill: insulation uniformly covers the entire ceiling (or roof) area from outside of all exterior walls. (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Weight of Mineral-Fiber Loose Fill (Fiberglass, Rockwool): Target R-Value (from CF-1R) <input type="text"/> . Minimum weight from insulation bag label to meet target R-Value <input type="text"/> (lb/ft2). Weight of insulation from coring tool <input type="text"/> (lb). Area of coring tool <input type="text"/> (ft2). Sample weight = <input type="text"/> (lb/ft2). Is sample weight (lb/ft2) the same as or greater than required weight (lb/ft2)? (NA for other forms of insulation)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Thickness- ALL Loose Fill Insulation- Target R-Value (from CF-1R) <input type="text"/> . Minimum thickness from insulation bag label to meet target R-Value (installed thickness <input type="text"/> (in)), and (settled thickness <input type="text"/> (in)). Average installed thickness <input type="text"/> (in) Is sample thickness the same as or greater than required thickness? (NA for other forms of insulation)
✓ GARAGE ROOF/CEILING INSULATION FOR TWO STORIES(no conditioned space over garage)			
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	Insulation installed at rim joists against the air barrier in the garage to house transition (between floors). (NA if conditioned space over garage or single story).
✓ GARAGE ROOF/CEILING INSULATION FOR TWO STORIES(conditioned space over garage)			
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	If insulation is installed at subfloor above garage - then insulation must also be installed at joists against the air barrier in the garage to house transition (between floors) and to R-value as specified on CF-1R. (NA if no conditioned space over garage or single story)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	If insulation is installed on ceiling of garage - then the joists to the outside (front, and both sides) must be insulated to the R-value specified on CF-1R. (NA if no conditioned space over garage or single story)

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