

Sarnafil <U.S.> inc.

Technical Bulletin #55A

To: All Sarnafil Approved Applicators and Specifiers

Re: Re-roofing of existing coal tar pitch roofs using Sarnafil roofing membranes

Date: April 2, 1985

The following procedures are necessary when re-roofing over existing coal tar pitch (CTP) roofs with Sarnafil membranes.

A. Coal tar pitch roofs more than 10 years old

I. Fully adhered system

a. Insulation mechanically attached

1. Remove all loose gravel and debris.
2. Cut all blisters and seal with asphalt roofing mastic.
3. Mechanically attach a minimum one inch layer of insulation with suitable fastener for the type of deck.
4. Fully adhere Sarnafil G-410 with Sarnacol adhesive.

b. Insulation attached with hot asphalt

1. Remove all loose and embedded gravel to create a smooth dust-free surface.
2. Cut and remove all blistered and delaminated roofing felts.
3. Set an approved 43 lb. base felt into a flood coat of hot asphalt.
4. If a 43 lb. base felt is to be left exposed overnight, then an asphalt glaze coat over felt is necessary as protection.
5. Set an approved insulation into a flood coat of hot steep asphalt onto the base sheet (maximum insulation dimensions are 4' by 4').
6. Fully adhere Sarnafil G-410 membrane to the insulation using Sarnacol adhesives.

II. Loosely laid/ballasted system

A. Insulation loosely laid

1. Remove all loose gravel and debris.
2. Cut all blisters and seal with asphalt roofing mastic.
3. Loosely lay a minimum one inch layer of insulation.
4. Loosely lay Sarnafil "G" membrane and weld seams.
5. Ballast membrane

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III. Mechanically fastened system

a. Insulation mechanically attached

1. Remove all loose gravel and debris.
2. Cut all blisters and seal with asphalt roofing mastic.
3. Mechanically attach a minimum one inch layer of insulation. Insulation to be attached with suitable fastener for the type of deck.
4. Loosely lay Sarnafil "S" membrane and weld seams.
5. Mechanically attach membrane with Sarnabars and seal with cover strips.

B. Coal tar pitch roofs less than 10 years old

I. Fully adhered system

a. Insulation mechanically attached

1. Remove all loose gravel and debris.
2. Cut all blisters to form a level surface.
3. Mechanically attach a minimum one inch layer of insulation with the suitable fastener for the type of deck.
4. Set a second layer of insulation over the first, into a flood coat of hot asphalt. The second layer of insulation shall be laid transverse to the first layer.
5. Fully adhere Sarnafil G-410 to the insulation using Sarnacol adhesives. At all flashings and penetrations, a 43 lb. base sheet, set into hot asphalt, must run 12 inches under the top layer of the insulation and sealed onto the vertical portion of flashing (this acts as a vapor seal). Total "R" value must be a minimum 10.

b. Insulation attached with hot asphalt

1. Remove all loose and embeded gravel to create a smooth dust free surface.
2. Cut and remove all blistered and delaminated roofing felts.
3. Set an approved 43 lb. base felt into a flood coat of hot asphalt.
4. If the 43 lb. base felt is to be left exposed overnight, then an asphalt glaze coat over felt is necessary as protection.

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5. Set an approved insulation, minimum "R" of 10, into a flood coat of hot steep asphalt onto the base sheet. Maximum insulation dimensions are 4' by 4').
6. Fully adhere Sarnafil G-410 membrane onto the insulation using Sarnacol adhesives. At all flashings and penetrations, run the 43 lb. base sheet up vertical portion of flashings and seal with hot asphalt.

II. Loosely laid/ballasted system

a. Insulation loosely laid

1. Remove all loose gravel and debris.
2. Cut all blisters to form a level surface.
3. Loosely lay a minimum one inch layer of insulation onto the coal tar pitch roof.
4. Set a second layer of insulation, transverse over the first layer, loosely.
5. Loosely lay Sarnafil "G" membrane over insulation and weld seams.
6. Ballast membrane.

At all flashings and penetrations, a 43 lb. base sheet, set into hot asphalt or mastic, must run under the top layer of the insulation and sealed onto vertical portions of flashings. Total "R" value must be a minimum of 10.

III. Mechanically fastened system

Not acceptable.