

Petersburg Motor Pool – Fire Damage Repair

This letter is in regards to the insulation methods stated in the plans. We believe that we have a better method that will make the building more efficient and be a better system for the longevity of the building.

In our experience the typical sag and bag insulation that is sometimes used on steel buildings is not a good fit for our climate. The sag and bag insulation is sandwiched in between the steel purlins and the roofing or siding metal, which creates a situation where the roofing screws do not seat up tight to the roofing metal. What we have seen happen in the past is that since the screws don't seat tight there is a good possibility for small water seeps, which would not be a problem in a dryer climate, but here in southeast Alaska it compounds the issue and the insulation becomes wet and stays wet.

Last spring we removed and replaced the roof on Reid Brothers shop for this very reason, the insulation had become so wet that the weight of it was falling off the ceiling into the shop. They sprayed foam insulation on the new roof to create a dryer and warmer shop.

In addition to the sag and bag the specs call for a fiberglass batt to be installed on the inside of the sag and bag insulation. Fiberglass batts are made to fit into a typical stud wall where the friction of insulation against the stud keeps the batt in place and prevents sagging. In a steel building there are no stud cavities so if batts are to be used they would be stacked into the wall and with nothing to prevent them from sagging there would be voids at the top of every cavity. The current building was blown in with a loose fill insulation in the wall cavities, which would be better than batts.

Spray foam insulation is very commonly used in steel structures especially in cold climates. It fills all voids and creates an airtight insulation. Buildings that use spray foam are more efficient and easier to heat.

**Job Proposal
Rainforest Contracting INC.
Petersburg, Alaska
Jesse West-General Contractor
Residential Endorsement**

Job: Petersburg Motor Pool – Fire Damage Repair

Date: 04/20/2021

Job Description: Install spray foam insulation in all exterior walls and roof to full R value of R-28 in the walls and R-40 in the ceiling. These are the R values that we would reach with the current insulation plan.

Total cost: \$26,400.00

Jesse West

**Rainforest Contracting INC.
Jesse West - President**

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**Job Proposal
Rainforest Contracting INC.
Petersburg, Alaska
Jesse West-General Contractor
Residential Endorsement**

Job: Petersburg Motor Pool – Fire Damage Repair

Date: 04/19/2021

Job Description: replace and/or fix all framing that is inadequate including missing headers, unsecured walls, replacing weak railings, adding support posts under stair landing.

Total cost: \$16,300.00

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Jesse West - President**

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Job Proposal
Rainforest Contracting INC.
Petersburg, Alaska
Jesse West-General Contractor
Residential Endorsement

Job: Petersburg Motor Pool – Fire damage repair

Date: 04/28/2021

Job Description: Cut and expose plumbing around toilet flange, update plumbing to include venting and proper sized drain piping for washer and above plumbing. Pour new concrete patch to match surface

~~Option 1: to include rough in plumbing for urinal in bathroom while pipe is exposed below grade.~~

Option 2: to include saw cutting and laying in new pipe and pour new concrete patch for air supply to center bench

Total cost: \$6,750.00

~~Option 1: \$1,400.00~~

Option 2: \$3,200.00

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