

January 1, 2003

Re: TITANIUM-UDL™ Installation

Dear Sir,

This is in reference to the 130 square shingle re-roofing project we carried out the week of December 23rd, 2002 at Bay Area Oncology located at 4301 Amernia Ave, Tampa, FL using **TITANIUM-UDL™** synthetic roofing underlayment purchased from the local Eagle Supply.

The first thing we observed was the performance of exposed underlayment midway through the project. We had installed about 65 squares of **TITANIUM-UDL™** as per manufacturer's instructions by December 24th, and this was followed by very heavy rain storms, with up to 4" of rain and wind gusts that averaged between 30 and 50 mph. The storm lasted into early Christmas morning. Returning to the jobsite on the 26th, we observed all the newly installed **TITANIUM-UDL™** to be completely intact with no damage whatsoever and no reported leaks. The **TITANIUM-UDL™** product remained completely flat; something not possible with 30# felt. If this had been regular 30# felt, there would likely have been loss of a considerable amount of felt underlayment due to wind blow off and possible roof leakage. This would have cost us additional material and labor to repair. The **TITANIUM-UDL™** was checked for tears and elongation around the shanks of the plastic cap nails and none were found.

Another huge benefit was that we could complete the project with only 13 rolls of **TITANIUM-UDL™** versus 65 rolls of 30# felt. This saved our crew at least 52 trips up and down the ladder to stock the roof; this is a tremendous saving in labor. Also, the lower weight of **TITANIUM-UDL™** meant we were adding 1500 lbs less weight on the roof vs. 30# felt; significant on large projects.

In addition, the roll run on this project at the longest point was approximately 120 ft, which by using **TITANIUM-UDL™**, meant we didn't have a vertical lap until the 3rd run, so this saved us an estimated 33 vertical laps on six runs of 120 ft each. This was a considerable material and labor savings on an average sized project. The crew also mentioned being impressed at the speed at which they could roll out **TITANIUM-UDL™** and how flat it laid. The two crewmembers rolled out approximately 30 squares in less than 15 minutes and had it nailed in place within an additional 30 minutes using standard hammer and ring shank nails with plastic caps. The crewmembers also were also impressed with the cleanliness of the product vs. working with 30# felt.

We definitely intend to use **TITANIUM-UDL™** roofing underlayment again in future projects.

Frank Alvarez
Operations Manager
RIVA Construction
Tampa, FL