

Palm Beach Shores Apartments – Coal Tar vs. Single Ply

Coal Tar

Brief Description of Roof Assembly

Base layer Isocyanurate insulation mechanically fastened @ steel deck, mopped @ concrete deck.

Insulation cover board – ½" fiberboard installed in hot asphalt.

Fiberglass base installed in hot asphalt.

Three (3) plies tar-glass felt in hot coal tar pitch.

Gravel surface embedded in flood coat coal tar pitch.

Positives:

- Numerous plies roof membrane - base + 3 felt = 4 total plies

- Final protective flood coat and gravel

- Excellent protective surface for hail, weather and foot traffic

- No coal tar roof lost in all hurricanes due to weight of final surfacing

- Life of coal tar roofing often exceeds 30 years

Negatives:

- Initial cost higher

Single Ply Membrane

Brief Description of Roof Assembly

Base layer Isocyanurate insulation mechanically fastened @ steel deck, glued down @ concrete deck.

NO Insulation cover board.

Single membrane installed by mechanical fasteners or adhered.

Positives:

- Initial cost less expensive

Negatives:

- Single ply roof membrane = 1 total ply

- No final protective flood coat and gravel

- Poor protective surface for hail, weather and foot traffic

- Vulnerable to hurricanes due to no surfacing

- Life of single ply roofing less than 20 years