

JOB HAZARD ANALYSIS

TIM GRABOSKI ROOFING

All Crews are to perform PRIOR (Before) Starting Work:

- 1) When parking trucks or kettles in roadway, place traffic cones front and rear.
- 2) Verbally communicate to people in and around house/building, the need for caution due to overhead work.
- 3) Be aware of other nearby vehicles
- 4) Crew leader – competent person walks and inspects the entire roof surface for slip and fall hazards.
- 5) All workers wear hard hats.
- 6) Erect yellow caution tape around entire perimeter of building.
- 7) Ladders shall be inspected for condition and design integrity.

Ladders shall be extended three feet above the roof eave, or tied off. If resting on a paved or firm surface, the feet will be employed. If on a soft, loose surface, the feet shall be in an up position and the bottom rails placed in a shallow trench to prevent movement. Employ the 4 to 1 placement angle.

Workers will face the ladder when ascending or descending and use at least one hand to grasp and not carry any load that could cause worker to lose balance.

Heat Stress: Workers will hydrate themselves frequently to prevent heat stress as well as not be on the roof during rain or lightning.

Additionally, the **ground area** under the edge of the roof eave will be inspected for harmful and dangerous protrusions. If anything exists that would endanger a worker during a fall, it must be removed or appropriately covered.

Personal Protective Equipment: All workers will wear approved hard hats. Safety glasses will be worn when performing cutting, grinding, blowing, chipping, or nailing. Particulate respirators will be worn by tile installers when 1) unloading bags of cement into mixer; 2) blowing debris on roof; 3) cutting tile.

Gloves will be worn when carrying sheet metal and fabricated metal products. Hot mop workers will wear gloves when working with liquid asphalt.

Proper Dress: All employees will wear approved uniforms. Hot mop workers are to wear long sleeved shirts and long cuff-less pants. All workers may wear sneaker type footwear due to traction needed on inclined surfaces (see Exhibit A.)

Injuries will be reported as soon as possible to the Tim Graboski Roofing supervisor and/or Safety Director, Tom Potter (who will complete an Accident Investigation Report). A copy of the Tim Graboski Roofing Accident Report will be faxed to the job site Project Manager.

Gasoline Storage: Storage of up to five gallons of gasoline will be stored in approved, vented containers.

Fall Protection Policy: The following procedures will be implemented during residential construction roofing (work including roofing removal and new roofing installation) where the roof slope is 8/12 or less and the eave to lower level fall distance is 25 feet or less.

- 1) Roof surfaces shall be inspected for slipping hazards and these hazards shall either be eliminated or effective measures shall be taken to avoid them.
- 2) Appropriate footwear shall be worn by all workers to reduce slipping potential.
- 3) When adverse weather (such as high winds or rain) is creating a hazardous condition, roofing operations shall be suspended until the hazardous conditions no longer exist.
- 4) Damaged portions of the roof deck shall be repaired as soon as practical and any holes (including skylight openings) or other areas where workers would not have safe footing shall be covered.
- 5) Workers shall be protected by a safety monitoring system in which a competent person monitors the safety of all employees in a roofing crew and warns them when it appears to the monitor that they are unaware of the hazard or acting in an unsafe manner. A safety monitoring system must be used only on roofs where the slope is 4/12 or less or where tile or metal roofing is being installed, the slope is 8/12 or less.
- 6) Workers shall not ascend or descend on the roof's slope within 6 feet of the rake edge (CAZ zone) except where such a limit on movement would prevent the performance of work. This area must be marked by a painted warning line, which surrounds all sides of the work areas and is 6 feet from the roof edge.
7. Supplies and materials shall not be stored within six feet of the rake edge or three feet where tile roof systems are being installed. This is the CAZ zone (controlled access zone).

8. The area below the eaves and rakes shall be kept clear of material and other objects which could cause impalement or they shall be properly guarded.

On roofs with slopes greater than 8/12 and on roofs with slopes greater than 4/12 where the eave to lower level is more than 25 feet, workers shall use personal fall arrest systems.

Dry-in Application: To follow general safety guidelines.

Hot Mop Application: In addition to following the general safety guidelines, the following should be adhered to:

- 1) The EVT should not exceed 525 degrees F.
- 2) Use a face shield when tending.
- 3) Keep lid closed when operational
- 4) If the fill buckets are stuck on the roof, twist to free them. Do not pull or jerk.
- 5) Carry hot buckets no more than $\frac{3}{4}$ full and on downhill side of sloped roof.
- 6) Be careful not to step on fresh hot asphalt.
- 7) Maintain at least a 10 foot space between kettle and building
- 8) Set out (2) ABC fire extinguishers on either side of the kettle within 25 feet.
- 9) Propane and gasoline should not be within 10 feet of the burner
- 10) Use fill pipe stand on roof
- 11) Use approved hot buckets
- 12) Never add gasoline to the engine while it is running.

Tile Installation: Follow general safety guidelines.