



ASCE T-10 - SECTION 1.9 SLIDING SNOW:

THE LOAD CAUSED BY SNOW SLIDING OFF A SLOPED ROOF ONTO A LOWER ROOF SHALL BE DETERMINED FOR SLIPPERY UPPER ROOFS WITH SLOPES GREATER THAN 1/4 ON 12, AND FOR OTHER (I.E., NON-SLIPPERY) UPPER ROOFS WITH SLOPES GREATER THAN 2 ON 12. THE TOTAL SLIDING LOAD PER UNIT LENGTH OF EAVE SHALL BE $0.4PW$, WHERE w IS THE HORIZONTAL DISTANCE FROM THE EAVE TO RIDGE FOR THE SLOPED UPPER ROOF. THE SLIDING LOAD SHALL BE DISTRIBUTED UNIFORMLY ON THE LOWER ROOF OVER A DISTANCE OF 15 FT FROM THE UPPER ROOF EAVE. IF THE WIDTH OF THE LOWER ROOF IS LESS THAN 15 FT, THE SLIDING LOAD SHALL BE REDUCED PROPORTIONALLY. THE SLIDING SNOW LOAD SHALL NOT BE FURTHER REDUCED UNLESS A PORTION OF THE SNOW ON THE UPPER ROOF IS BLOCKED FROM SLIDING ONTO THE LOWER ROOF BY SNOW ALREADY ON THE LOWER ROOF. SLIDING LOADS SHALL BE SUPERIMPOSED ON THE BALANCED SNOW LOAD AND NEED NOT BE USED IN COMBINATION WITH DRIFT, UNBALANCED, PARTIAL, OR RAIN-ON-SNOW LOADS.

SLIDING SNOW LOADS