

Allagash roof structural design loads versus ballasted solar system weight

2. Design Loads

2.1 Gravity load

Flat roof snow loads 42 PSI

roof dead load 20 PSI

Solar racking system	local weight	8.1 PSI
	global weight	4.4 psi

local weight: 8.1 psi is 40.5% of roof design dead load worst case

global weight: 4.4 psi is 22% of roof design dead load average structural load

Solar System load is well within the dead load design parameters per General Structural Notes S10
Associated Design Partners Inc - Allagash 2015 Expansion

