

TECHNICAL BULLETIN TB250

SIM LOAD SELECTION TABLE

Product: Snow and Ice Melting (SIM)
Date: 16 January 15 (supersedes 22 May 12)

This table is provided to give suggested values for Free Area Ratio and Frequency Distribution for Snow and Ice Melting designs across North America to meet typical customer expectations. Actual selections on a job specific basis are subject to field adjustment. Specific outputs may be limited due to capacities of thermal mass materials, heat source and other equipment.

See ASHRAE *HVAC Applications* for SIM design instructions and to find actual SIM loads for selected applications.

| Common Applications | Free Area Ratio, $Ar=$ | Frequency Distribution % |
|---|------------------------|--------------------------|
| Private residential sidewalk, steps | 0.5 or 1.0 | 75 or 90 |
| Private residential driveway, steep incline | 1.0 | 90 |
| Private residential driveway | 0.0 or 0.5 | 75 or 90 |
| Apartment building sidewalk, steps, wheelchair ramp | 1.0 | 95 or 98 |
| Apartment building parking lot | 0.5 | 75 or 90 |
| Apartment building parking ramp | 0.5 or 1.0 | 90 or 95 |
| Company/business sidewalk, steps, wheelchair ramp | 1.0 | 90 or 95 |
| Company/business parking lot | 0.5 | 75 or 90 |
| Company/business parking ramp | 0.5 or 1.0 | 90 or 95 |
| Public building sidewalk, steps, wheelchair ramp | 1.0 | 95 or 98 |
| Public building parking lot | 0.5 | 90 |
| Public building parking ramp | 1.0 | 95 |
| School sidewalk, steps, wheelchair ramp | 1.0 | 90 |
| School parking lot | 0.5 | 90 |
| School parking ramp | 1.0 | 95 |

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| Common Applications | Free Area Ratio, $A_r =$ | Frequency Distribution % |
|--|-----------------------------|-----------------------------|
| Fire/rescue station sidewalk, steps, wheelchair ramp | 1.0 | 95 or 98 |
| Fire/rescue station parking lot | 0.5 | 95 |
| Fire/rescue station vehicle ramps | 1.0 | 95 or 98 |
| Hospital sidewalk, steps, wheelchair ramp | 1.0 | 95 or 98 |
| Hospital parking lot | 0.5 | 90 or 95 |
| Hospital parking ramp | 1.0 | 95 |
| Hospital MediVac landing pad | 1.0 | 99 |
| Private landing pad (helicopter) | 1.0 | 90 |
| Private runway (airplane) | 1.0 | 90 |
| Car wash aprons (typical) | 1.0 | 90 |