Wind load calculation for roof covering and add-ons

Building parameters

Building location: Vancouver Region, Burnaby (Simon Fraser Univ.), British Columbia

Building geometry:

- High Rise
- Height (reference height): 70 ft (21 m)
- Width (smaller plan dimension): 70 ft (21 m)
- Length: 150 ft (46 m)
- Does the building have parapet higher than 3.28 ft(1m): No

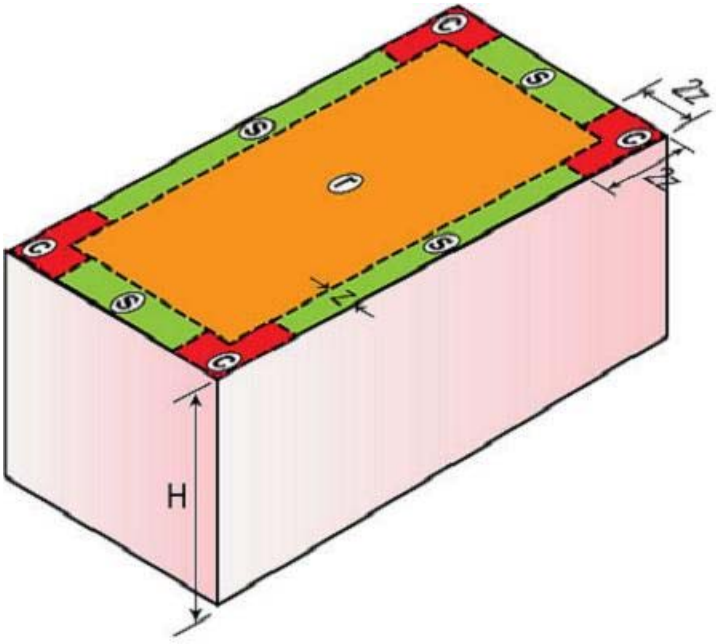
Building exposure: Rough

Building openings: Category 1

Building importance: Normal

Wind loads for roof cladding

Roof area	Wind load
End zone width, Z	15 ft (4.6 m)
Corner, ©	-66 psf (-3.2 kPa)
Edge, Ⓢ	-43 psf (-2.1 kPa)
Field, ⓡ	-28 psf (-1.4 kPa)



(Conversion Unit: 1 ft = 0.3048 m, 1 psf = 47.88 Pa, 1lb/ft^2 = 4.8824 kg/m^2)

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