

Wind loading Function of: • external shape of the structure • surface roughness • porosity of surface • edge treatment • surrounding structures • incident turbulence • wind climate

AS/NZS1170.2: Wind actions

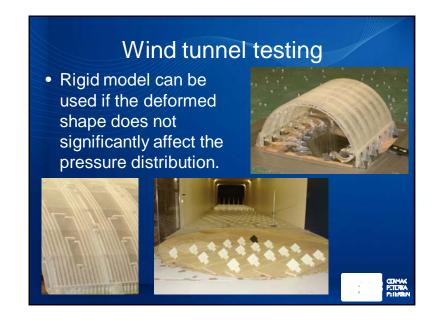
- Rigid smooth, generally rectilinear structures
 - loading generally conservative when applied to smooth curved surfaces
- Generally based on testing of large structures
 - for smaller structures small scale turbulence becomes important creating asymmetric loading
 - continuous membranes have a good ability to redistribute high local pressures
- Loads are for design of primary wind resisting structural system, not asymmetric loading

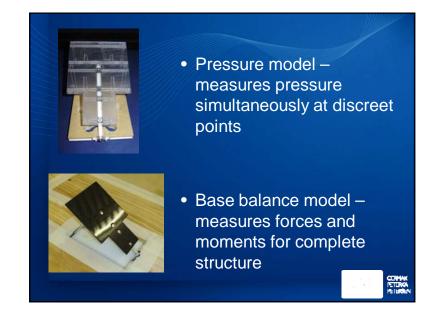
CERMAK PETERKA PETERSEN

S2D Wood

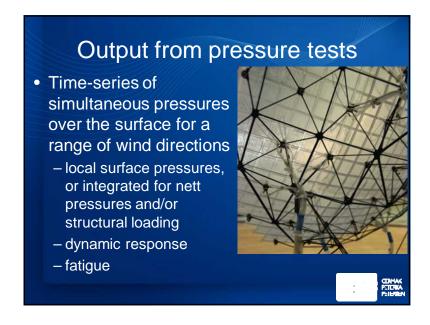


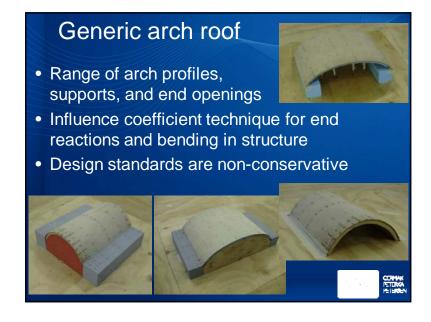


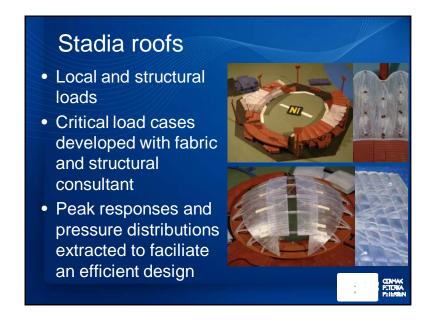




S2D Wood









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