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High rise buildings

1. Generally

Swisspearl panels are suitable for claddings on high rise buildings. As the panels withstand to any wind load there is no limitation to the building height.

2. Spacing between fasteners

2.1 On high rise buildings the wind loads are generally higher than on low ones. Local engineer to determine applicable wind loads to all building zones; for some projects based upon wind load study (model with neighbouring buildings).

2.2 Spacing between panel fasteners to be determined in accordance with the Swisspearl table of distances between fasteners.

3. Ventilation cavity

3.1 Minimum cavity thickness for uninterrupted cavities shall be 75 mm for buildings up to a height of 100 m, and 100 mm cavity for higher buildings.

3.2 When dividing the cavity height wise into sections, the cavity thickness can be decreased to 50 mm.

3.3 For high rise buildings it is recommended to close off horizontal panel joints with flashing profiles.

3.4 The major criterion for the design of the ventilation cavity is the use of non-inflammable material for insulation, sub framing and cladding. Besides adequate sizing of cavity and ventilation openings there are no specific requirements regarding the design of the ventilation cavity.

4. Realised high rise buildings

4.1 Many apartment towers with Swisspearl panel claddings have been realised in the past years. Most of them are 10 to 25 stories high, some are exceeding 30 stories.

4.2 Many airport traffic control towers or their top sections have been clad with Swisspearl panels.

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