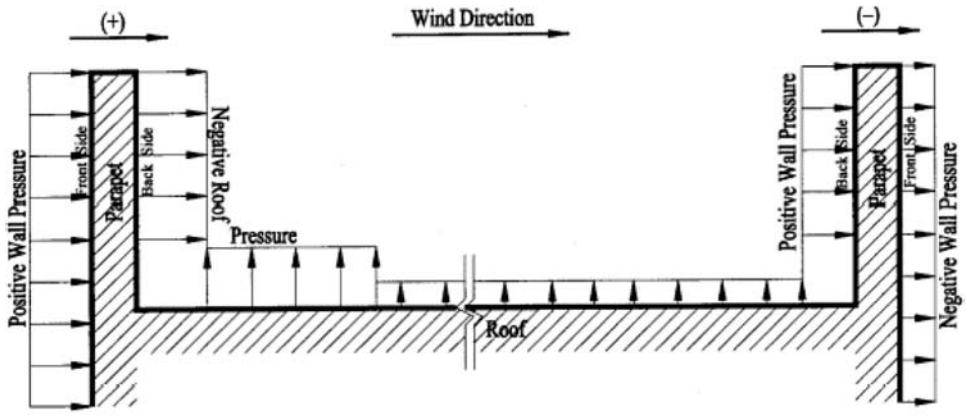
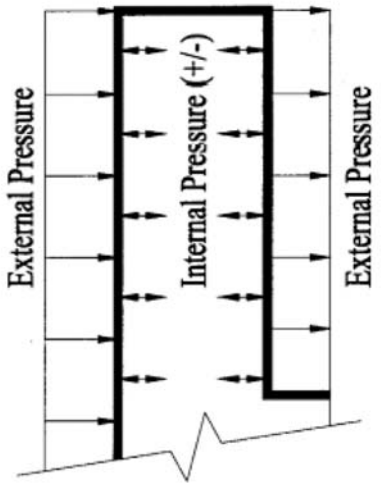


Methodology used to Develop External Parapet Pressures
(Main Wind Force Resisting Systems and Components and Cladding)



External and Internal Parapet Pressures
(Components and Cladding Only)

FIGURE C29.7-1 Design Wind Pressures on Parapets

For the design of the MWFRS, the pressures used describe the contribution of the parapet to the overall wind loads on that system. For simplicity, the front and back pressures on the parapet have been combined into one coefficient for MWFRS design. The designer should not typically need the separate front and back pressures for MWFRS design. The internal pressures inside the parapet cancel out in the determination of the combined coefficient. The summation of these external and internal, front and back pressure coefficients is a new term GC_{pn}, the Combined Net Pressure Coefficient for a parapet.

For the design of the components and cladding, a similar approach was used. However, it is not possible to simplify the coefficients due to the increased complexity of the components and cladding pressure coefficients. In addition, the front and back pressures are not combined because the designer may be designing separate elements on each face of the parapet. The internal pressure is required to determine