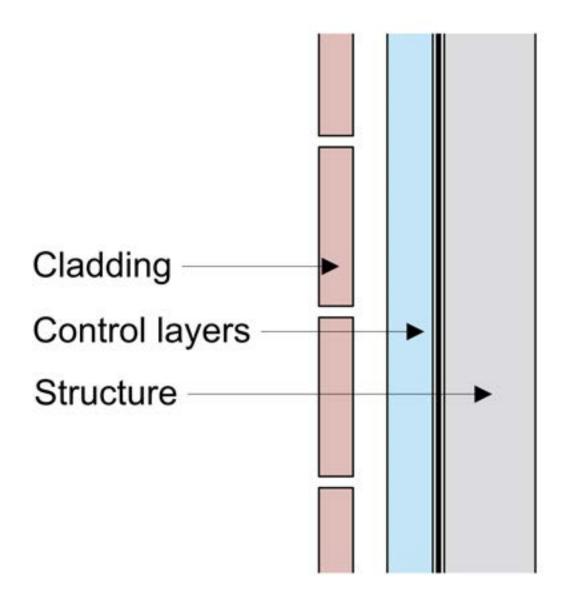
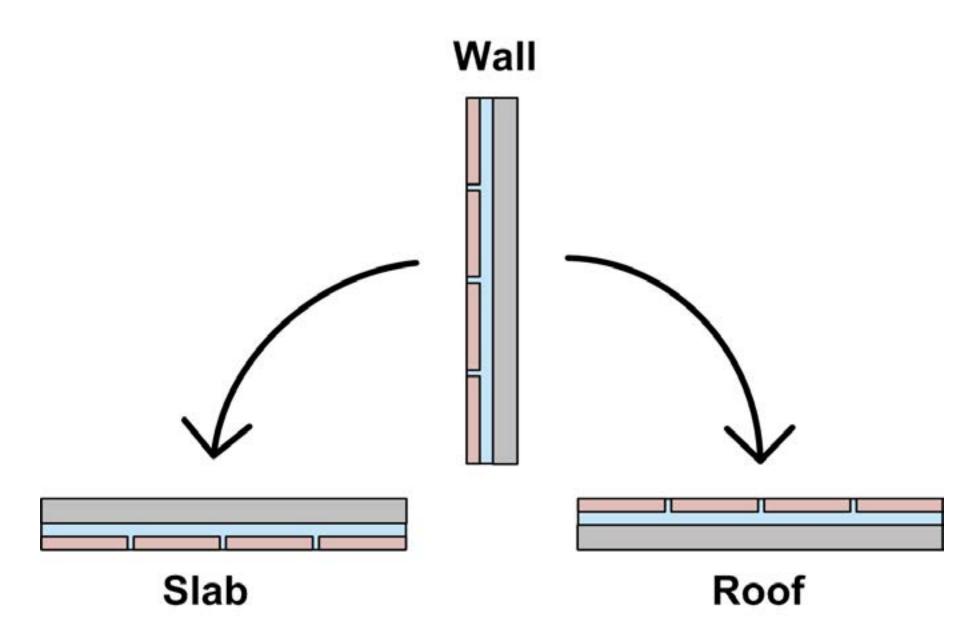
Joseph Lstiburek, Ph.D., P.Eng, ASHRAE Fellow

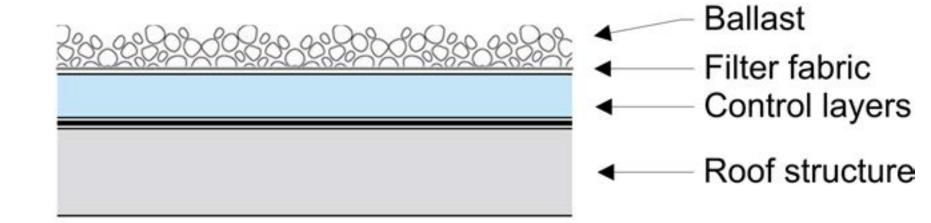
Building Science

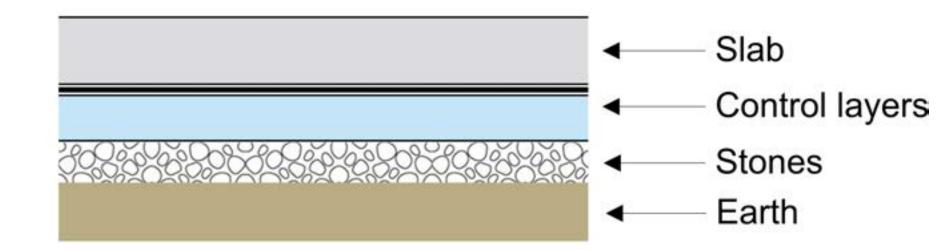
Adventures In Building Science Innies, Outies and Tweenies

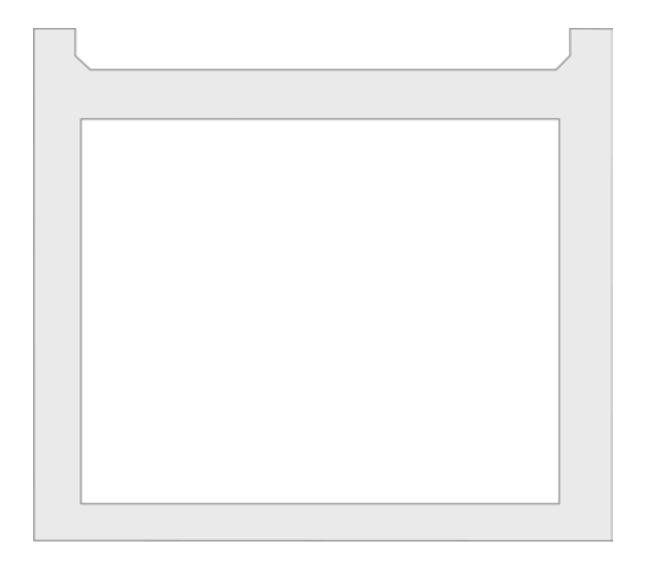
Water Control Layer
Air Control Layer
Vapor Control Layer
Thermal Control Layer

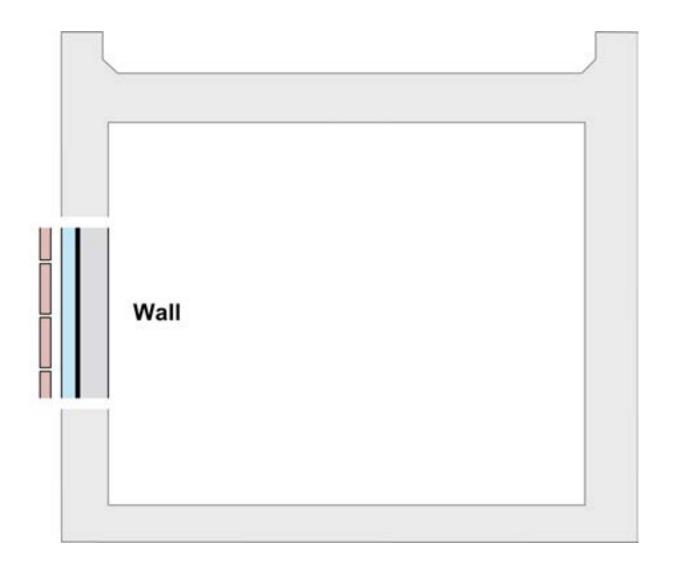


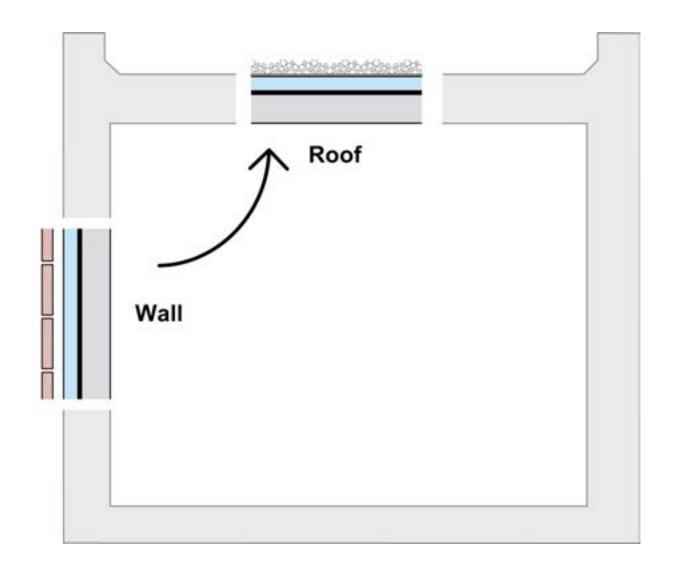


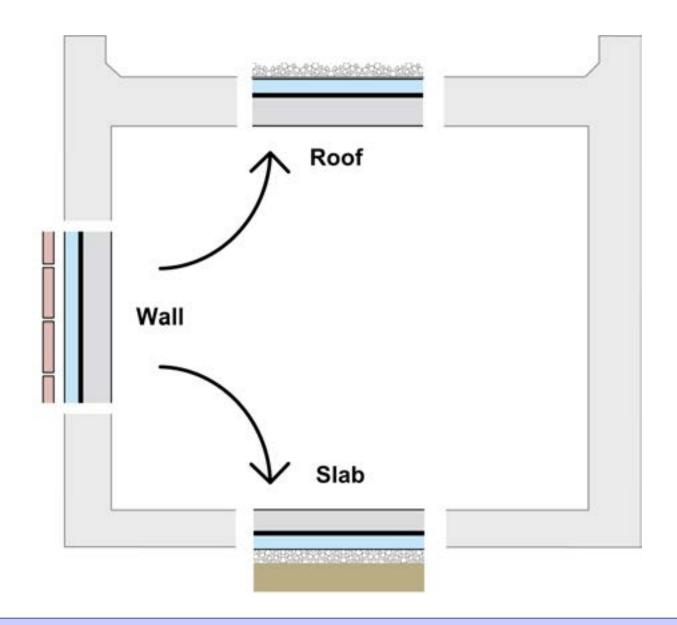


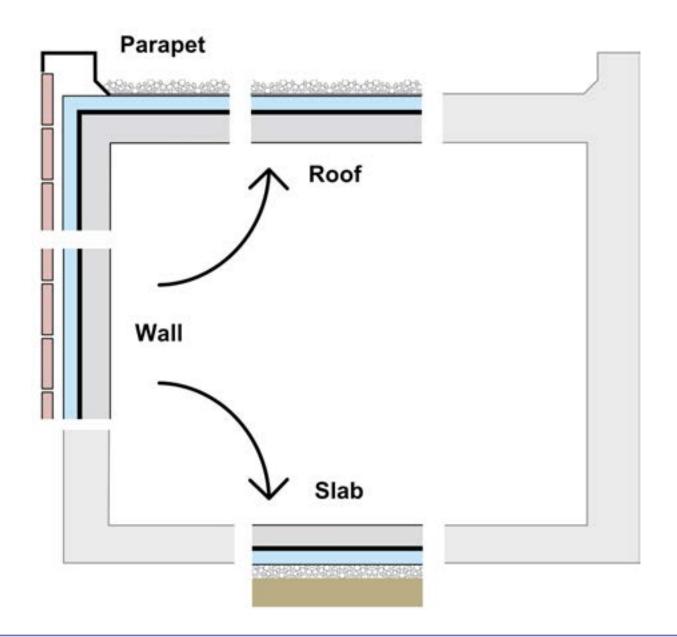


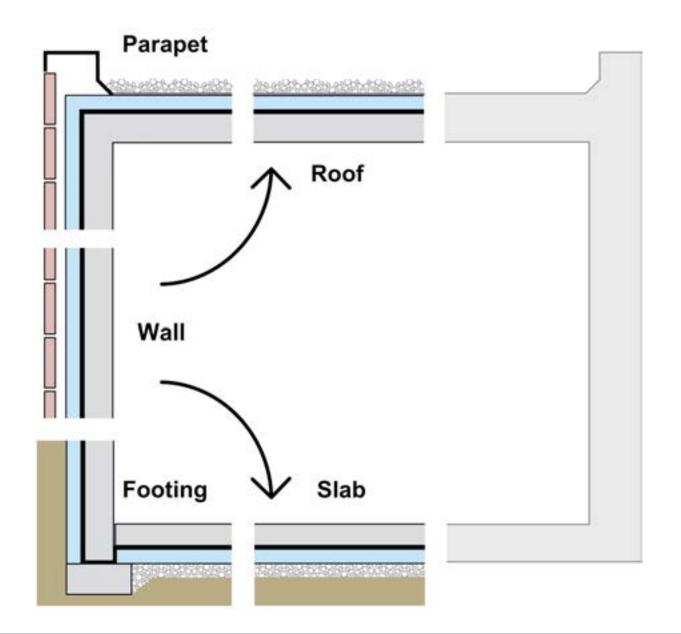


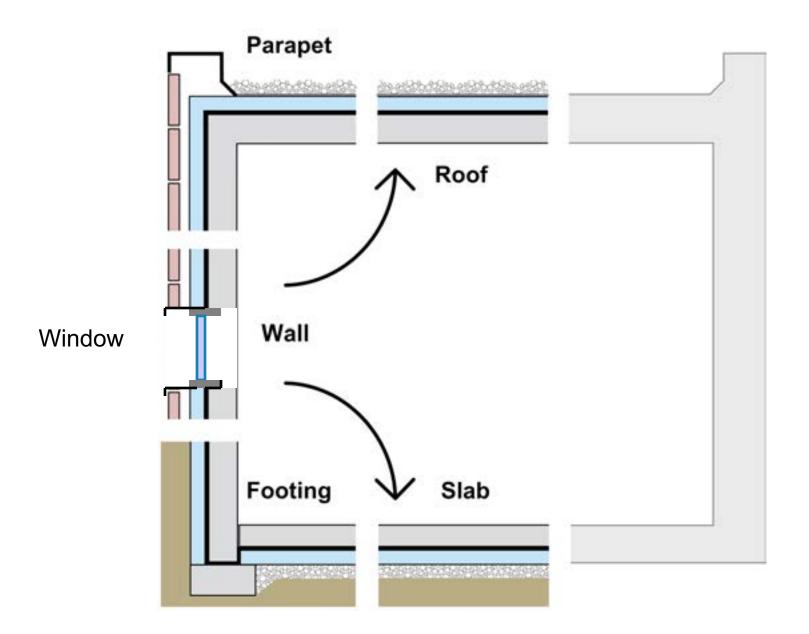


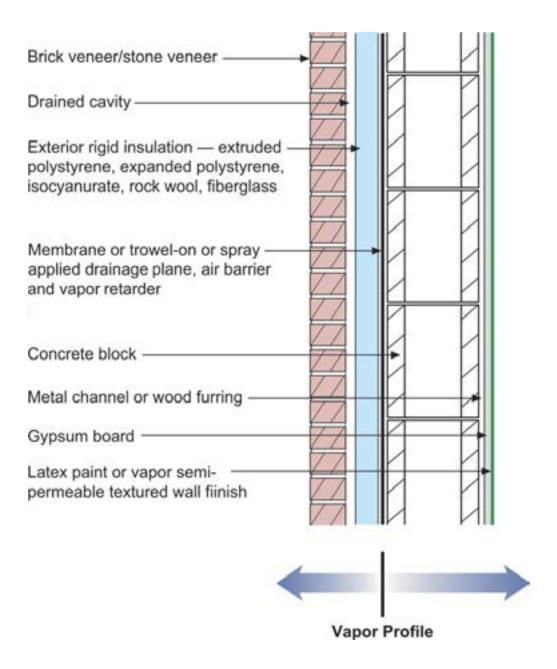


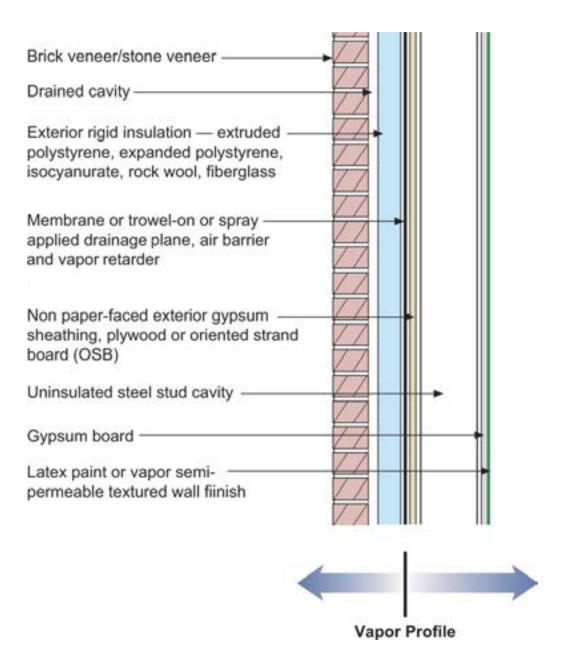


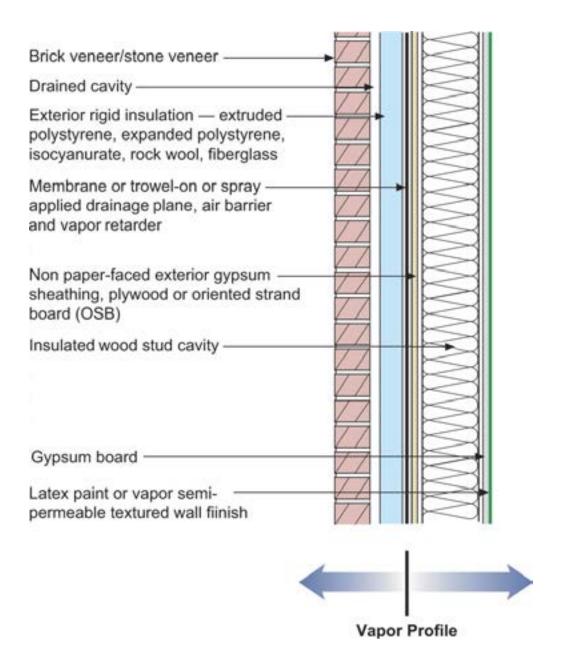












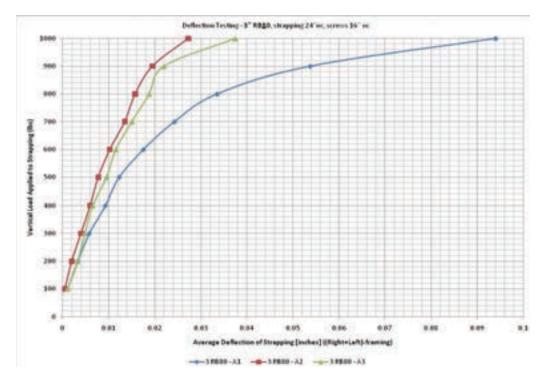




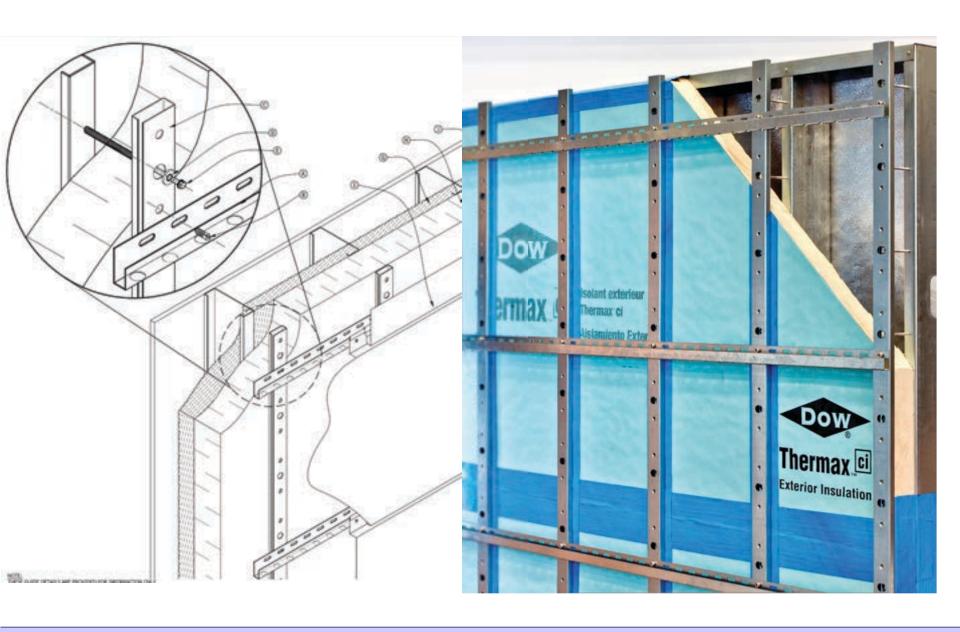


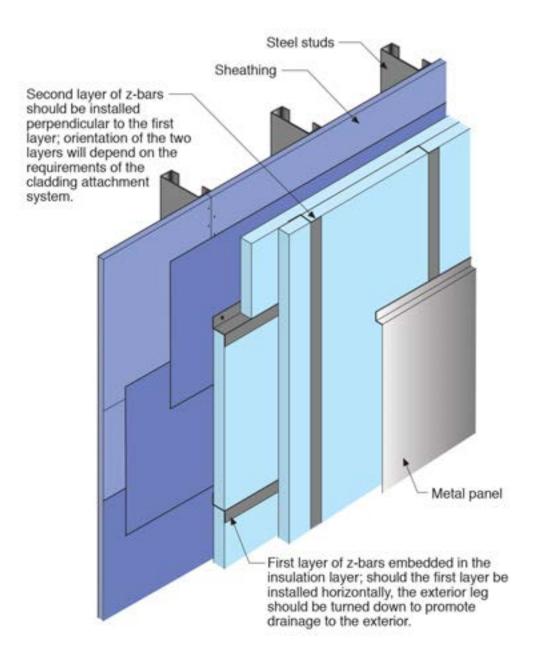
Rockwool

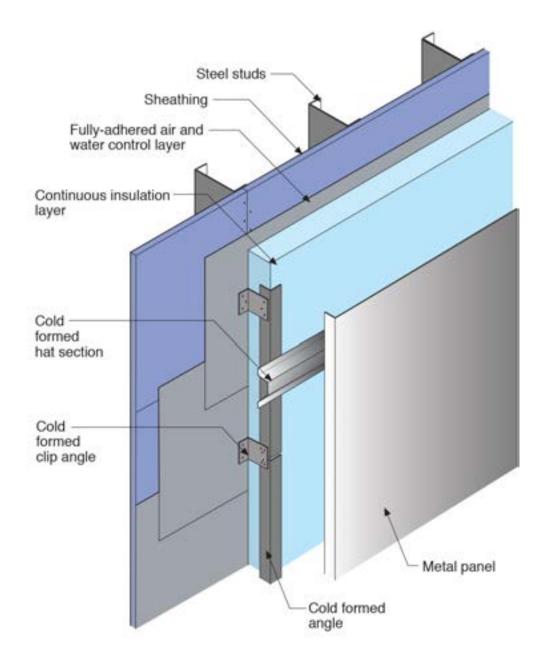
1x3 furring @ 24" o.c. #10 screws @ 16" o.c. vertically Result: 20 psf cladding weight with < 2/100" deflection



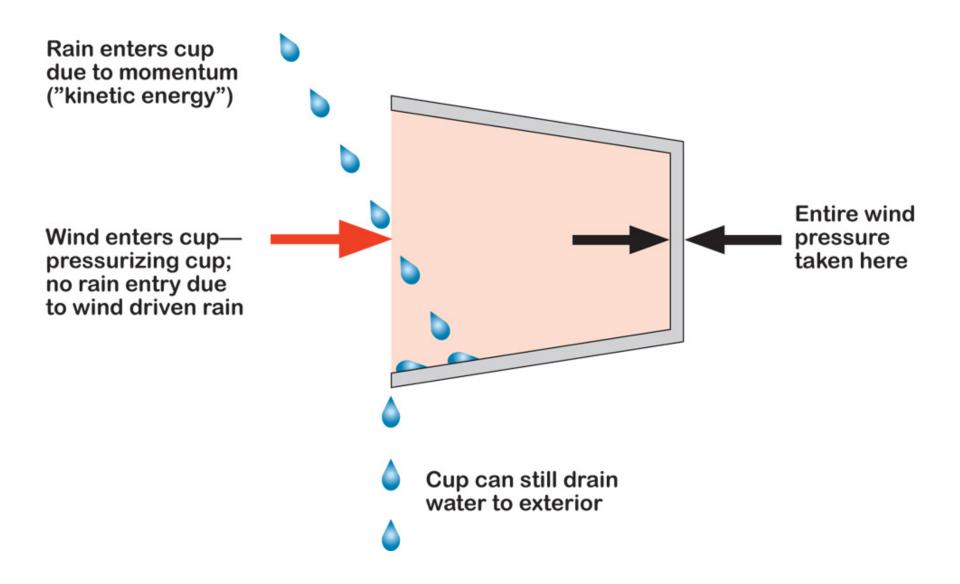


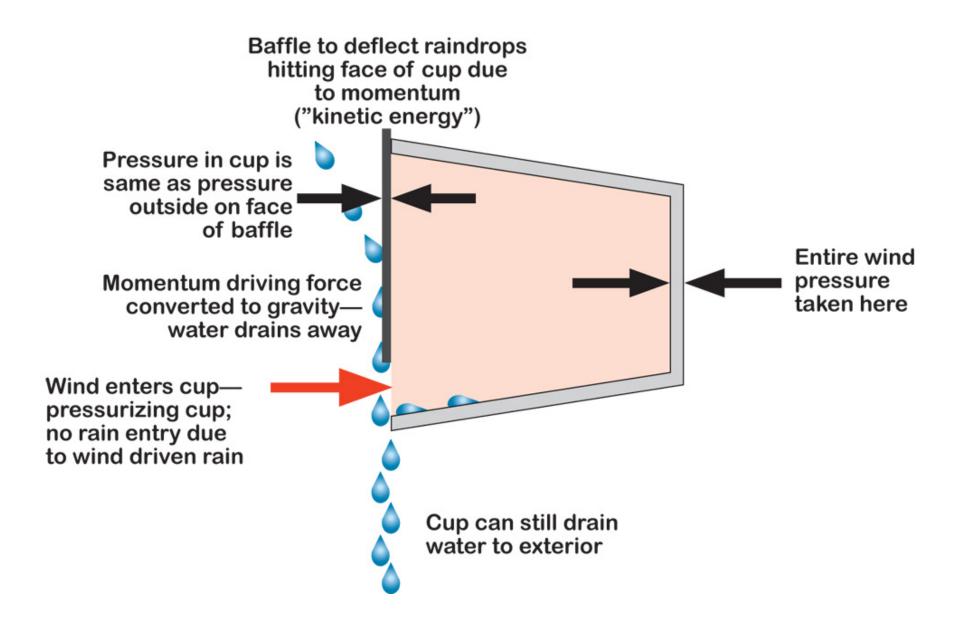


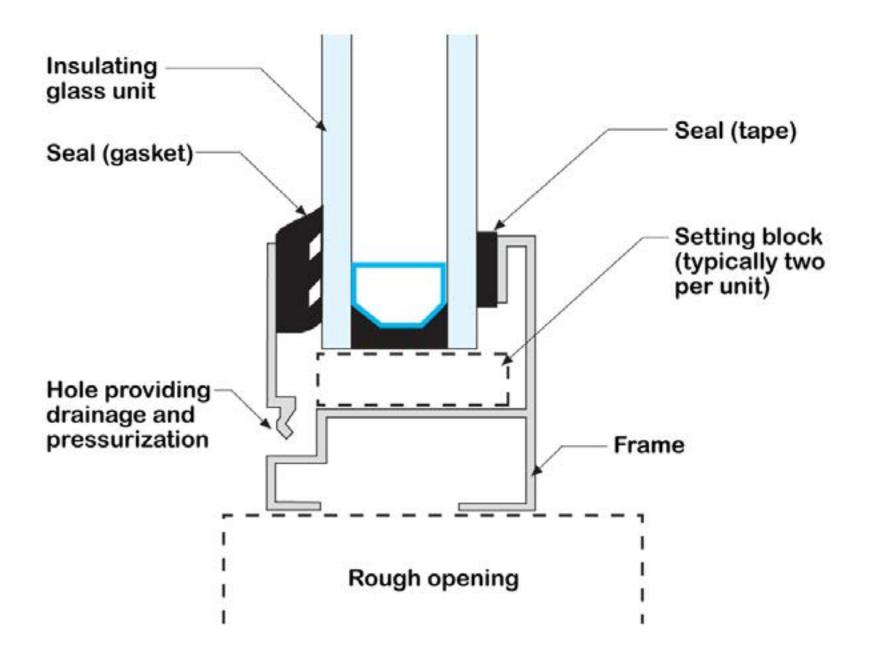


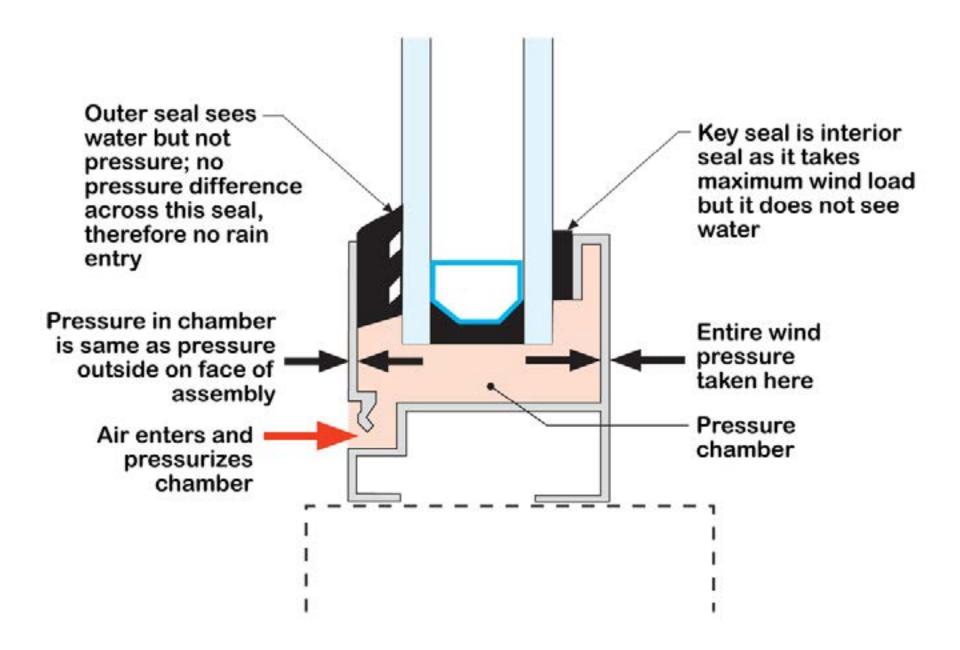


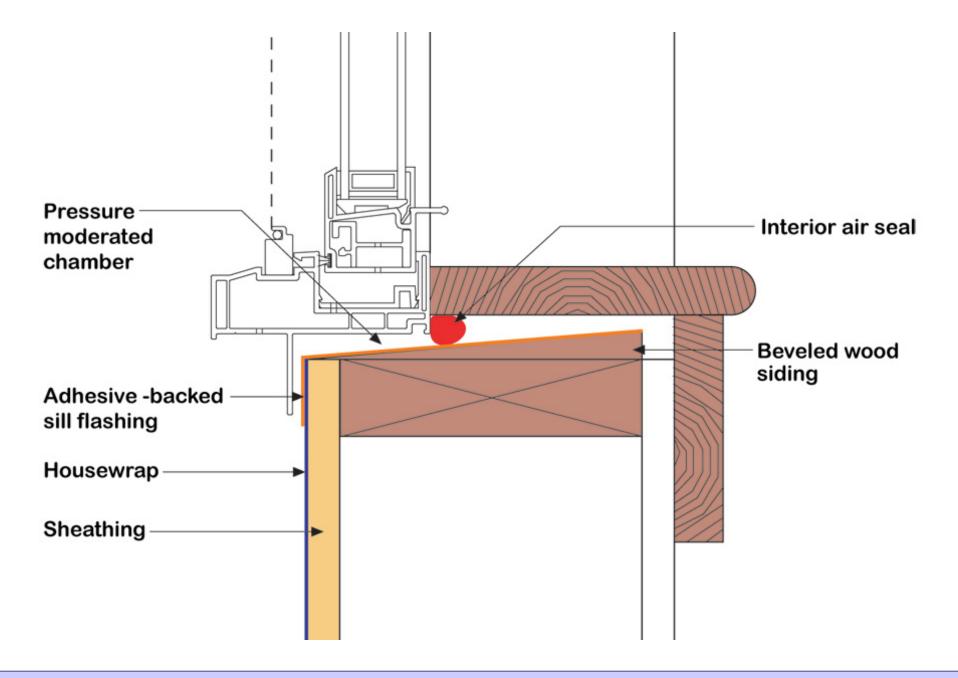
Rain enters cup due to momentum ("kinetic energy") Cup drains water to exterior







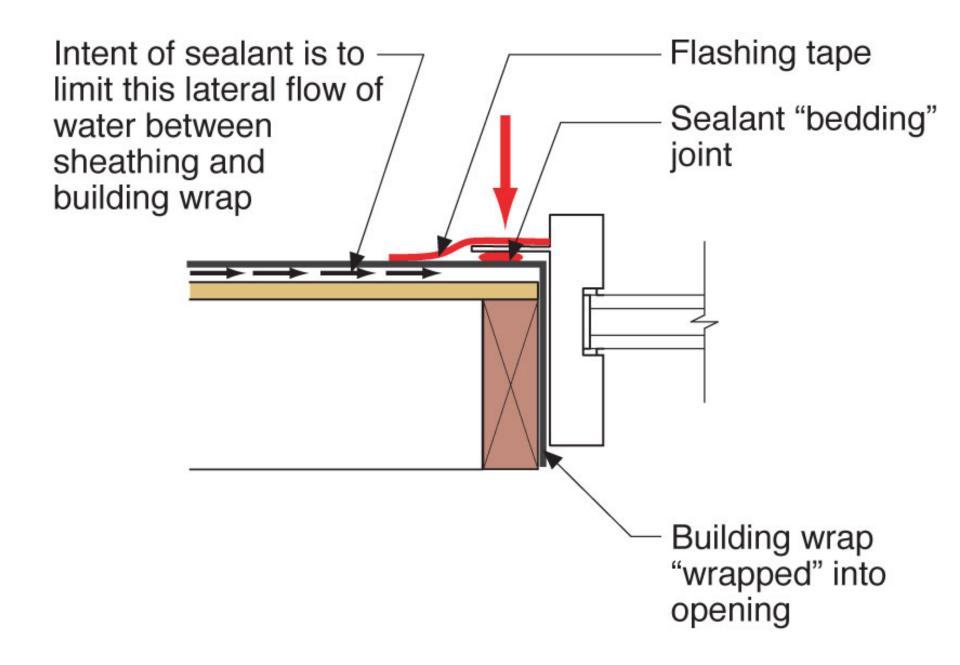


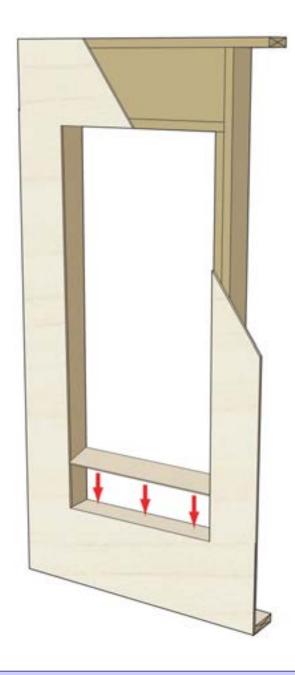


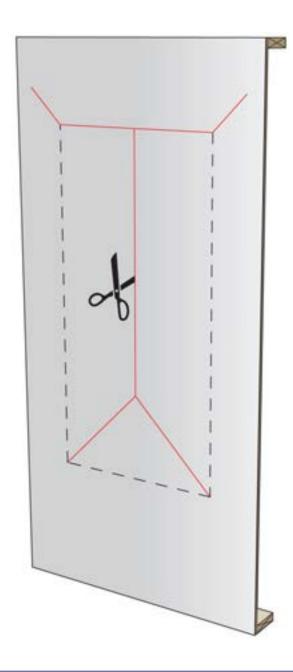


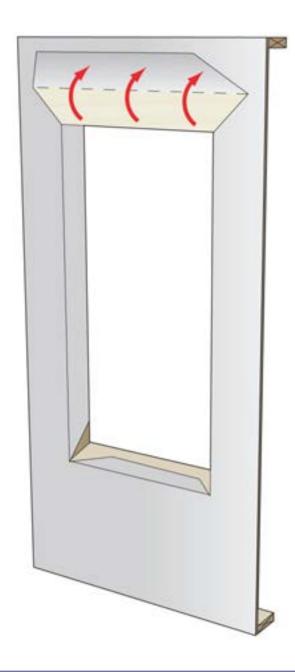


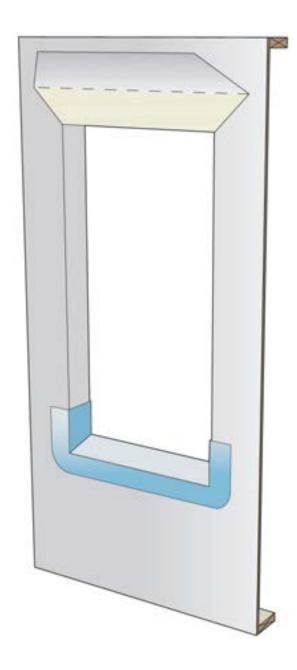


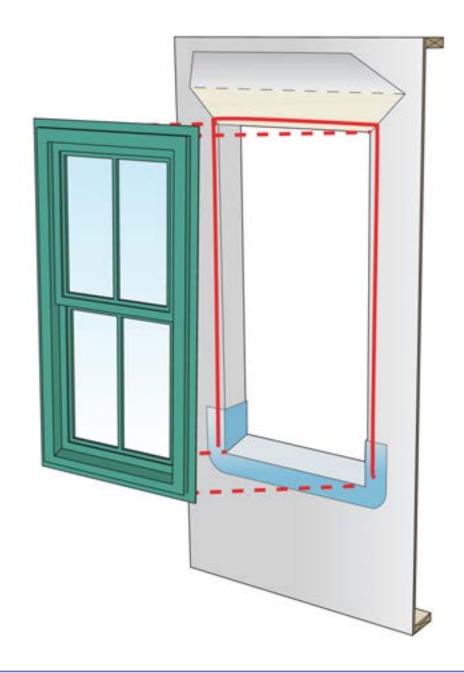


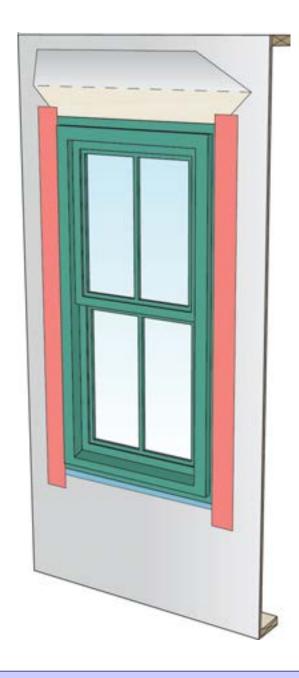


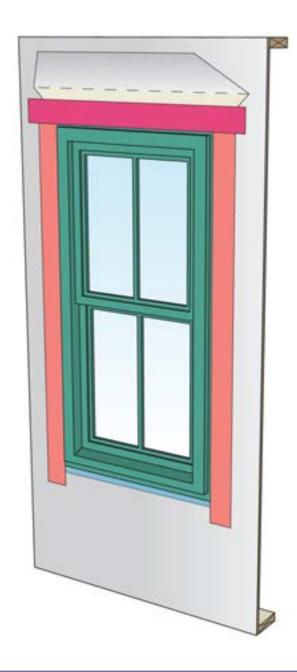










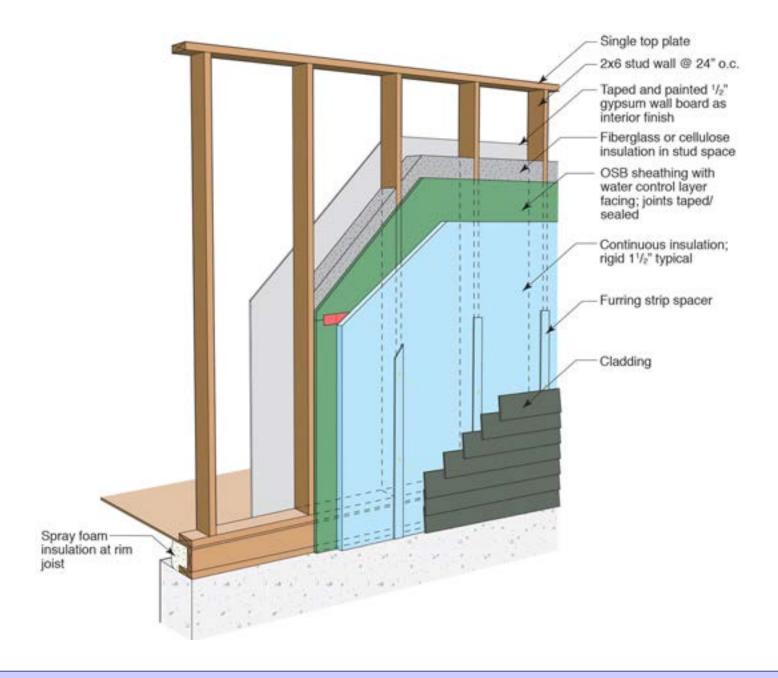


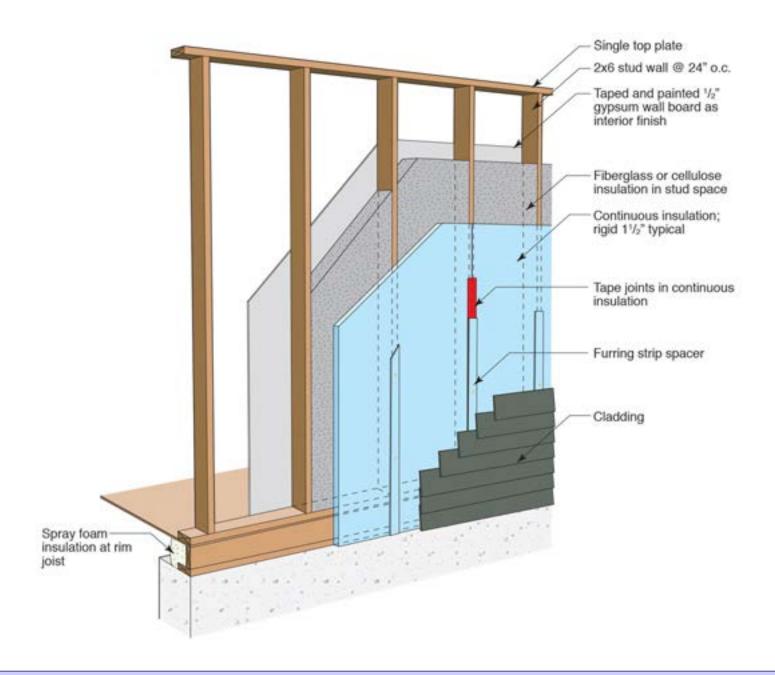












Where Is The Water Control Layer?

Where Is The Water Control Layer?
Behind The Continuous Insulation?
Or The Face of The Continuous Insulation?

Where Is The Water Control Layer?
Behind The Continuous Insulation?
Or The Face of The Continuous Insulation?
Where Is The Window?

Where Is The Water Control Layer?
Behind The Continuous Insulation?
Or The Face of The Continuous Insulation?
Where Is The Window?
Is It An Innie Or Outie Or Tweeny?



