Curtain and Solid Walls

Steven Alava
What is a Curtain Wall?

A curtain wall is the outer covering of a building which is not structural but still does its function of protecting people from the different types of weathers.
Curtain wall - Unitized System
What is a Curtain Wall Unitized System?

Unitised system consists of prefabricated units normally the width of a glazing bay (3’ 9”) and one or two stories in height.

Units are supported from the edge of the floor slab. Units are delivered to site glazed and infilled and only the unit perimeter seals are made at site.
Advantages

Unitised construction is quicker to install

This system normally leads to a higher quality wall.

It reduces the construction time of the whole building.

Waterproofing

It gives a greater look for its facade due to the simplicity of the panels.

Disadvantages

Unitised construction is marginally more expensive

It requires better planning and larger lead times are required.

It needs to be done by high-skilled worker.
Unitized System
Solid Exterior Walls
Precast Concrete Wall
Composite Panels
4MM COMPOSITE PANEL

WRB NOT BY NORTHCLAD™

SEE DETAIL "C" FOR TYPICAL SYSTEM CALL OUTS

VENT AND DRAIN CAVITY

FLASHING NOT BY NORTHCLAD™

WINDOW SYSTEM AND SEALANT NOT BY NORTHCLAD™

FOIL FACED WRB, AROUND FRAMED OPENING NOT BY NORTHCLAD™

PRIMARY SEAL, NOT BY NORTHCLAD™

SECONDARY SEAL, NOT BY NORTHCLAD™

Flashing to prevent rain water leaking into the building.
Single Wythe Concrete Masonry
BASE OF WALL  SINGLE WYTHE BLOCK, FLASHING @ INSIDE FACE
DETAIL 02.010.0312  REV. 09/30/11

NOTE: STRUCTURAL ELEMENTS MAY VARY AND ARE SHOWN FOR ILLUSTRATION ONLY

*ASTM International Specification C1096-05 requires that lath be attached to framing members with attachments spaced not more that 7 inches on centers along supports.* Local fastener/interval standards may differ from the ASTM specification. Consult local code for accepted fastener spacing.
Online Resource

Center for Window and Cladding Technology

http://www.cwct.co.uk/design/options.htm