

A System's Approach for design, material selection, testing and implementation of cladding



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He has an Engineering Degree and a Post Graduate in Finance, and has been advocating the need for testing, inspections and certifications for improved safety and quality in various industries for most of the last 16 years. Along with helping certification bodies expand their horizon of business in the last decade, he has also been writing articles and presenting at various forums about mandatory and voluntary quality and safety compliances. He is responsible for the company's Fire Compliance Business

Learning Objectives

1. *Function of a façade system*
2. *Relationship between stakeholders involved in the building envelope*
3. *How fire safety is brought about in Façade Systems*



facade

/fə'sɑ:d/ 

noun

1. the principal front of a building, that faces on to a street or open space.

"the house has a half-timbered facade"

synonyms: front, frontage, face, aspect, elevation, exterior, outside

"the house has a half-timbered facade"

2. a deceptive outward appearance.

"her flawless public facade masked private despair"

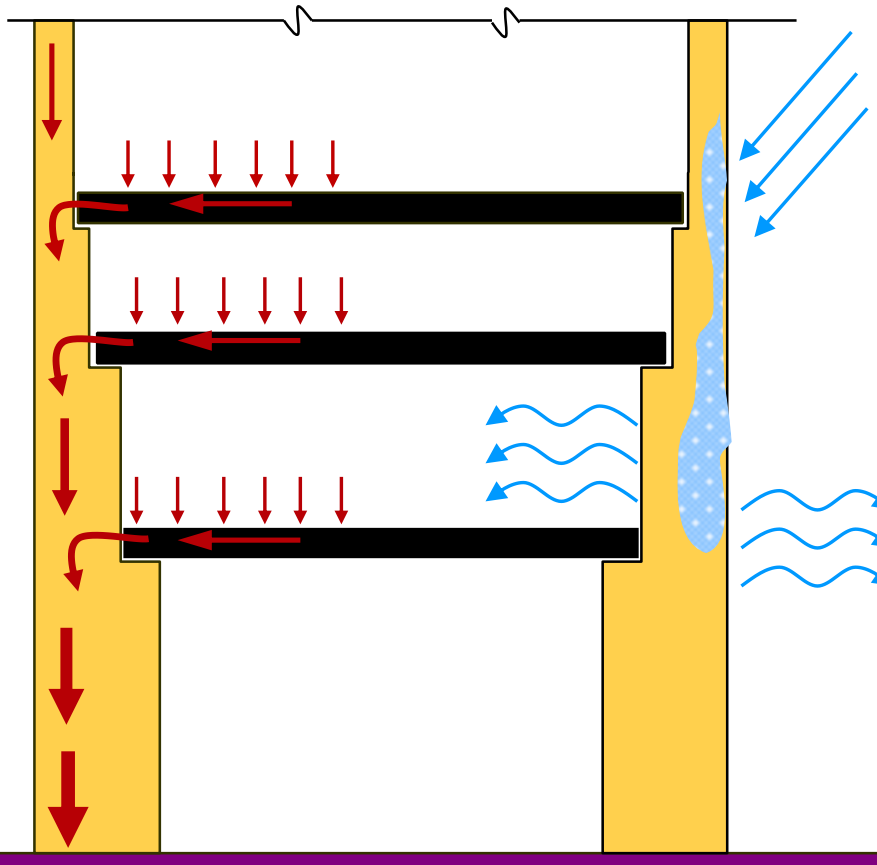
synonyms: show, front, appearance, false display, pretence, simulation, affectation, semblance, illusion, posture, pose, sham, fake, act, masquerade, charade, guise, mask, cloak, veil, veneer

"a facade of laughing bonhomie"



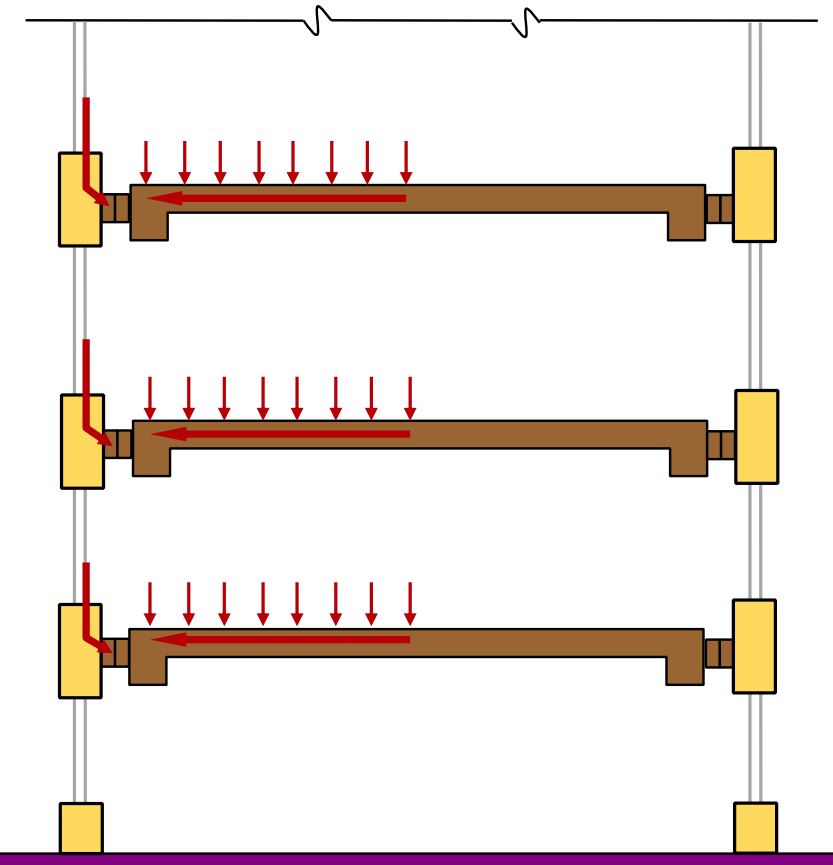
System

Functions of Façade or Cladding System



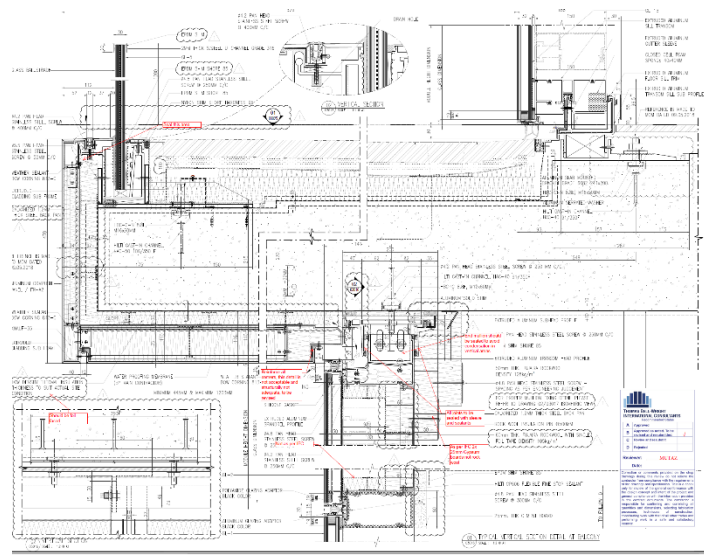
**Load Bearing / Masonry Walls
Till ~1950s**

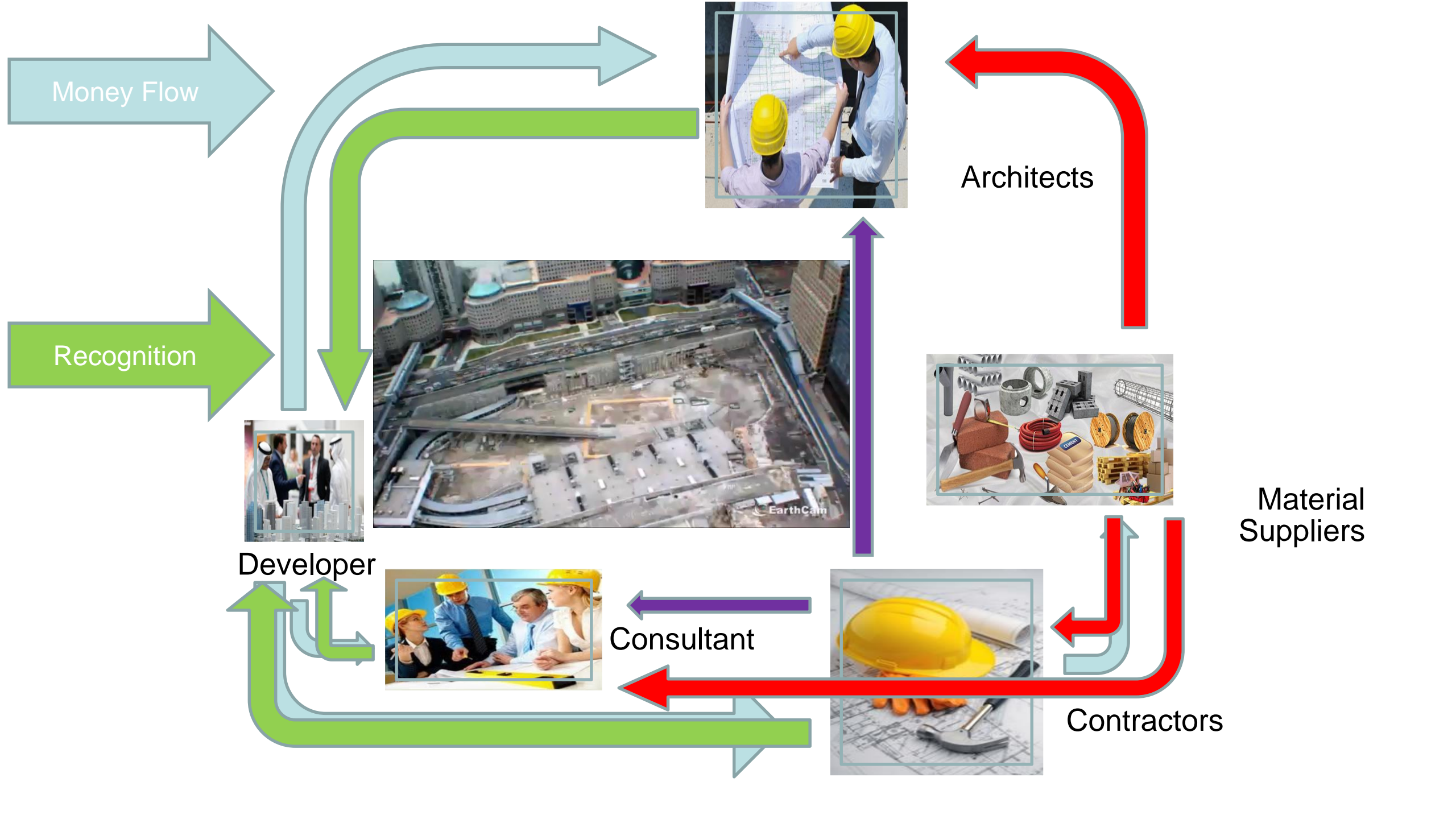
- Air Barrier
- Water Barrier
- Thermal Barrier
- Vapour Barrier



**Contemporary Walls (1950s
to present)**

From the Architect to the Engineer to the Contractor





Money Flow

Recognition

Architects

Developer

Consultant

Material Suppliers

Contractors

Fire Safety Duties : Sight to Site

Correct Specifications
Clear Performance Constraints



Consultant and Contractor

Speed
Accuracy
Assurance



Design

Engineer

Build

Architect and Consultant



Contractor and Material Supplier



Material Requirements
System Behaviour



Approval of Cladding System



Risk Assessment

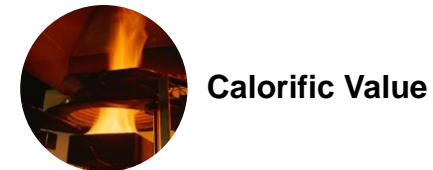
Fire Consultant | Façade Specialist | Contractor

Inspection

Assembly test or tests

Material Reaction to Fire Tests

Certification & Listing



Assembly Tests



Trust Tools



Inspection Bodies



Architects



Testing



Certification



Developer



Consultant



Material
Suppliers



Contractors

Questions



Architects



Material Suppliers



Developer



Consultant



Contractors