

**A Conversation on the Classroom of the  
Future: R&D in Our  
Schools**



**RELIABILITY** *for real life*<sup>™</sup>



## REQUIREMENTS OF FENESTRATION PRODUCTS

Efficient Energy Use

“The Light Source”

Economical

Aesthetically Pleasing

Durable

Constructible

Maintainable



## FUNCTION OF FENESTRATION PRODUCTS

Control Water Penetration

Control Air Flow

Control Heat Flow

Control Noise Transmission

Control Solar Radiation

Control Ingress / Egress

Fire Separation



## REQUIREMENTS OF FENESTRATION PRODUCTS

Efficient Energy Use - 5

“The Light Source” - 4

Economical - 6

Aesthetically Pleasing - 3

Durable - 3

Constructible - 4

Maintainable - 2



## FUNCTION OF FENESTRATION PRODUCTS

Control Water Penetration - 6

Control Air Flow - 3

Control Heat Flow - 5

Control Noise Transmission - 2

Control Solar Radiation - 4

Control Ingress / Egress - 3

Fire Separation - 6



## RESULTS

Not a lot of progress

## WHY

No vision of the future (They are what they are)

Demand drives change / Economy of Scale



## REDEFINE THE REQUIREMENTS AND FUNCTION OF FENESTRATION PRODUCTS

Given present technology, we need to question every assumption we hold (about fenestration products)

DEVELOP A PLAN FOR DRIVING THE DEMAND