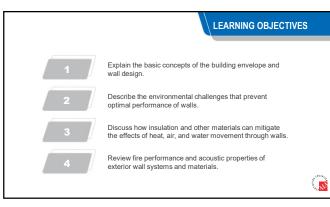


PROCEDURES SCAN ME

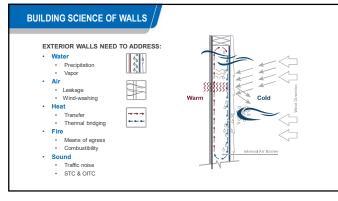




WHAT IS THE BUILDING ENCLOSURE?

- The part of the building that physically separates the *interior* and *exterior* environments.
- Includes all exterior components (windows, walls, roof, floor) from the innermost to the outermost layers.
- Must control the movement of moisture, air, heat, and sound.
- · Resist the spread of fire to allow for egress







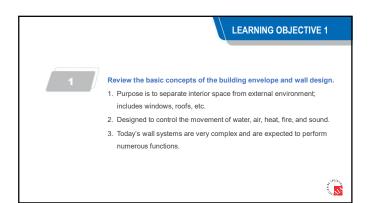


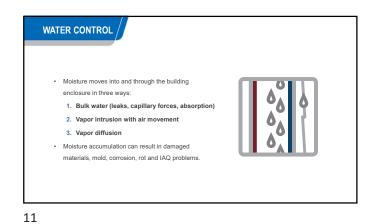


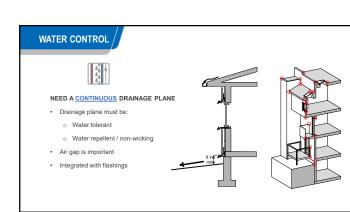
CONTEMPORARY ENVELOPE SYSTEMS Exterior rigid insulation — extruded polystyrene, expanded polystyrene, isocyanurate, rock wool, fiberglass Drainage space between exterior Protective locard or coating entereds 6 in below grade Ground slapes away from wall at 2% (it is per 30 fb) Polymer or traditio shucco d exterior gypsum ---Sealant, adl 124. aut Building pape break over dr Duringer mat, in drainage board, 4-in conce with option 1001 Lates paint or vapor semi-Owner -Vapor Profile





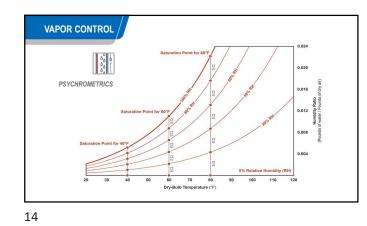




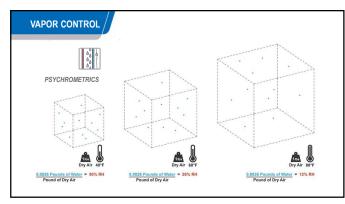


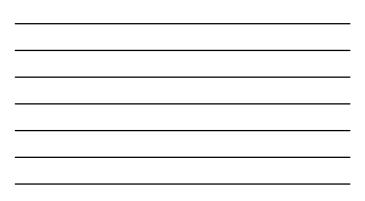


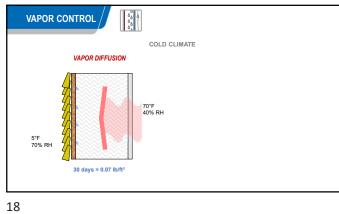




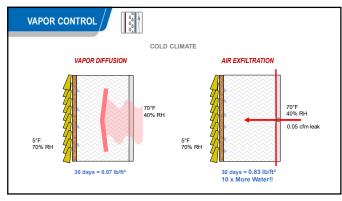




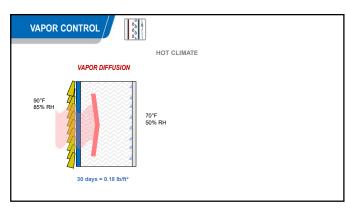




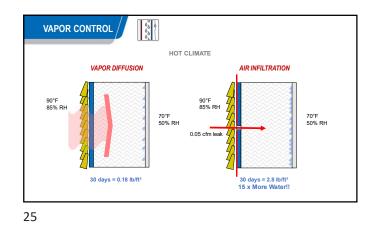


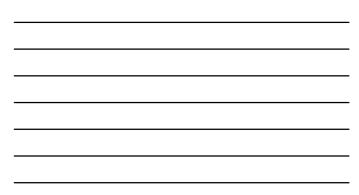


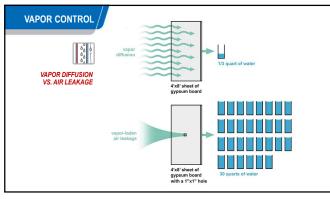




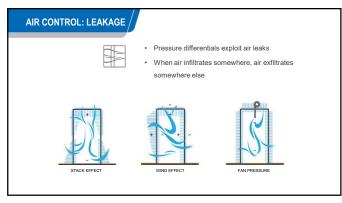




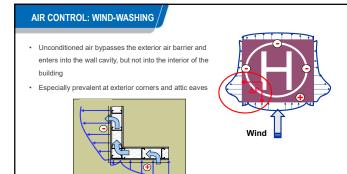


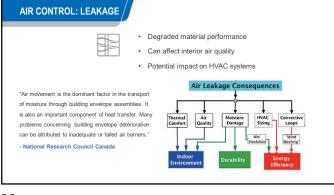




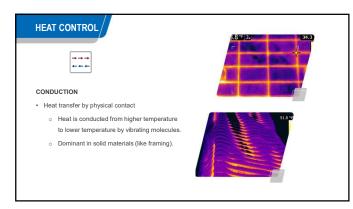


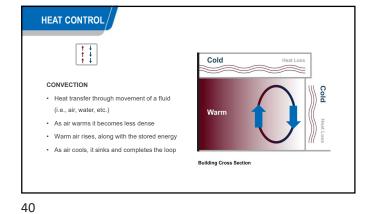




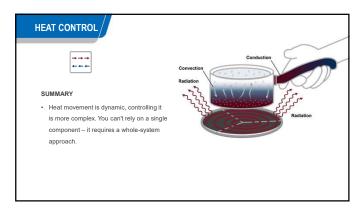


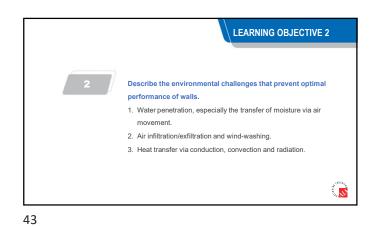


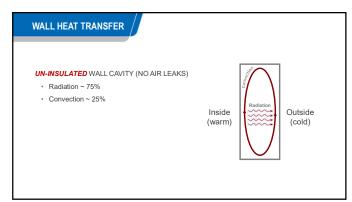


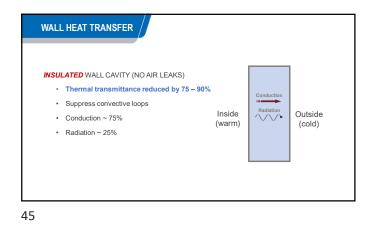


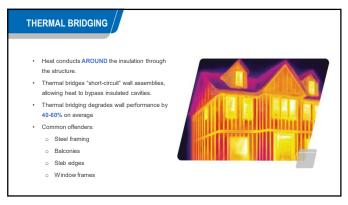












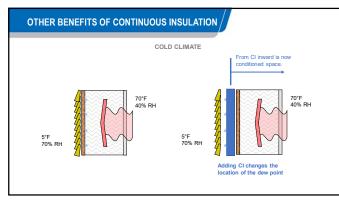
THERMAL BRIDGING Heat conducts AROUND the insulation through the structure. Thermal bridges "short-circuit" wall assemblies, allowing heat to bypass insulated cavities. Thermal bridging degrades wall performance by 49-60% on average Common offenders: Stele framing Batconies Slab edges Window frames



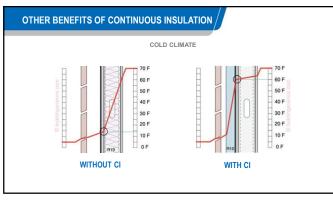




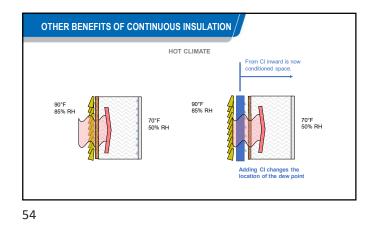
FUNCTION	EPS	XPS	POLYISO	SPF	MINERAL WOOL
Drainage plane	w/ tape	w/ tape	w/ tape	~	No
Below grade	✓	~	~	✓	~
Vapor retarder (1")	2-6 perms	1.2 perms	<0.1 perms	1.1 perms	110 perms
Air barrier	None per ABAA	w/ tape	w/ tape	~	None per ABAA
R-value	-4/inch	5/inch	≥6/inch	≥7/inch	≥4/inch
Wind	Look for ma	inufacture assembly	r test data	No	No
Fire Performance	Melts / Liquifies	Melts / Liquifies	Chars / Retains shape	Chars / Retains shape	Noncombustible



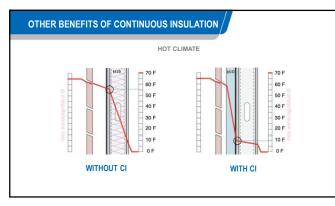




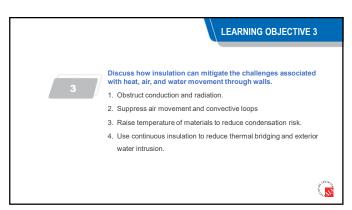


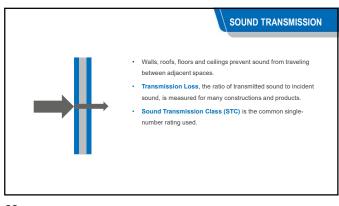


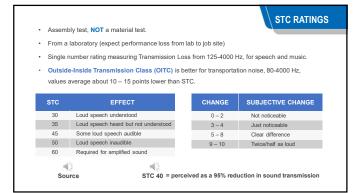


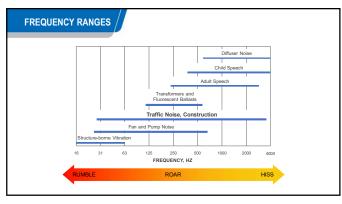


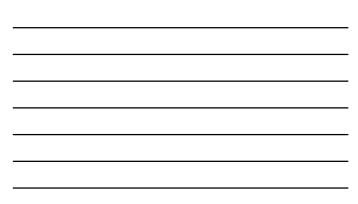


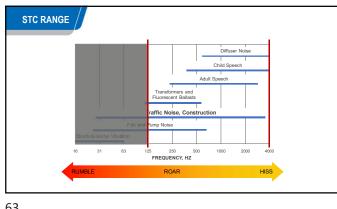






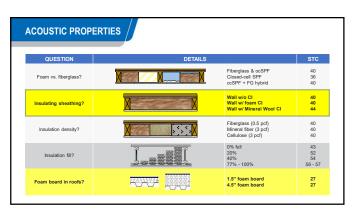








STC OF WALI	LS	ASSEMBLIES	
	ASSEMBLY	sтс	ОІТС
	2x4 framing, wood siding	40	25
	EIFS / Stucco	45 - 50	30 - 40
	Panelized / Rainscreen	30 - 50	20 - 40
	Masonry / Precast / CMU	50 - 60+	45 - 55





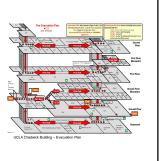


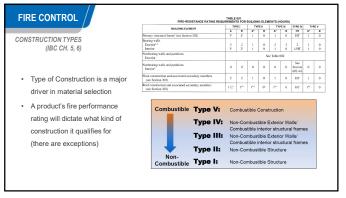
TRANSMISSION SUMMARY • Higher STC/OITC = Less sound passes through • Strategies to reduce sound transmission • Add weight or mass (gypsum, concrete, etc.) • Add cavity insulation • Add viation breaks (resilient channels, isolators) • Need to consider flanking • Air leaks • Structural connections • Windows, doors and openings • Porous materials are best for sound control – less reverb

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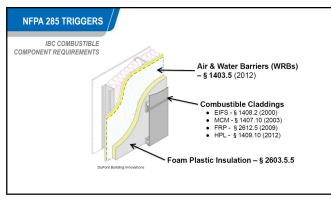
FIRE CONTROL

- A building's design, construction, and systems must allow for a MEANS OF EGRESS in the event of a fire
- Fire performance of buildings are dictated by:
 1. Height
 - 2. Floor area
 - 3. Use & occupancy classification (Group)

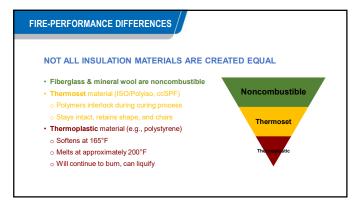


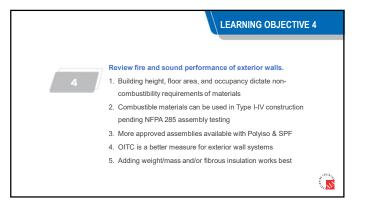


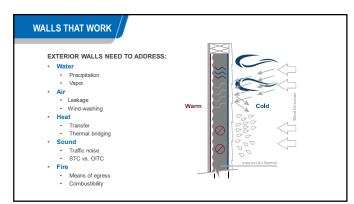


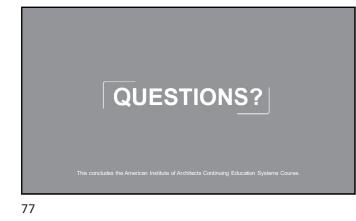


















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