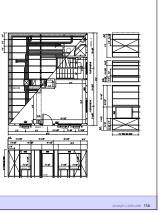


Design Issues

Building Science Corporation

 Provide drawings that integrate advanced framing into complete building envelope design and mechanical system layout





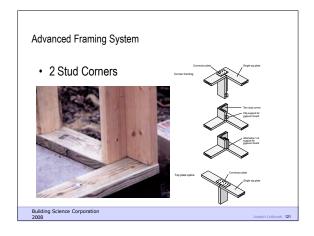




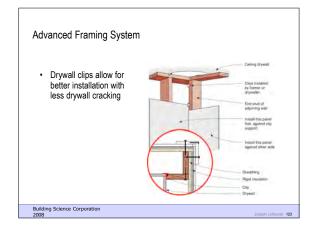


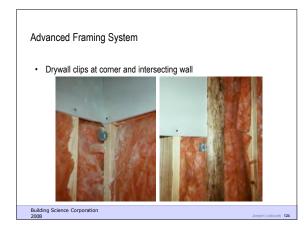


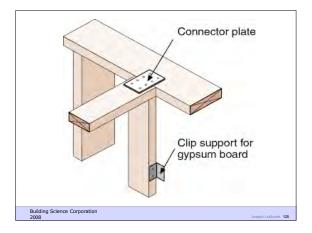












CASE STUDY		
HOUSE SPECIFICATIONS		
 Conditioned Floor Area 	2,495 sq ft	
 Total Floor Area 	2,910 sq ft	
 Typical Wall Height 	9'-11 _"	
 Total Conditioned Volume 	24,850cu ft	
 Length of Exterior Wall 	252 ln ft	
 Length of Interior Wall 	340 In ft	
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 2x4 16" oc WALL 			
	8'Studs	Bd Ft	Cost
 Ext Wall 	467	1634 bd ft	\$ 866
 Ext Plate 	95	331 bd ft	\$ 175
 Int Wall 	715	2502 bd ft	\$1326
 Int Plate 	126	446 bd ft	\$ 237
- Header		273 bd ft	\$ 145
- TOTAL WALL FRAME COST		\$2749	

2x6 24" oc ADV	ANCED FRAM	IE WALL		
	8'Studs	Bd Ft	Cost	
 Ext Wall 	238	1312 bd ft	\$695	
 Ext Plate 	63	347 bd ft	\$183	
 Int Wall 	279	977 bd ft	\$518	
 Int Plate 	85	298 bd ft	\$158	
 Header 		148 bd ft	\$78	
- TOTAL WALL	FRAME COST	\$1632		

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CASE STUDY	(
WOOD FRAME WALL SUMMARY						
	2x4	2x6	REDUCED BY			
– 8' Studs	1403	665	(-738 / -52%)			
– Bd Ft	5186	3082	(-2104 / -40%)			
- COST	\$2749	\$1632	(-\$1117 / -40%)			
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