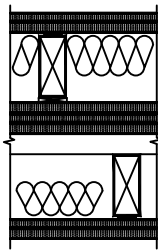
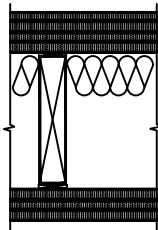


FIGURE 10.12 High Transmission Loss Wall Constructions
(Ben Sharp, 1973)



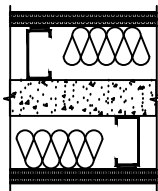
Double Wood Stud Wall
2 x 4 Studs Separated by a 3" Gap
Outside Layers 3/8" + 1/2" Drywall on 1/4" Foam Tape
Inside 5/8" + 1/2" + 5/8" Drywall on 1/4" Wood Squares
All Layers Spot Laminated at 24" OC and Screwed
Through Mounts - 2" Batt Insulation in all Cavities

125	160	200	250	315	400	500	630	800	1 K	1.3 K	1.6 K	2 K	2.5 K	3.2 K	4 K	STC
53	56	60	66	70	75	78	80	78	79	83	83	84	87	88	89	76



Single Wood Stud Wall - 2 x 8 Studs
1/2" + 3/8" + 1/2" + 3/8" Drywall on 1/4" Foam Tape
5/8" + 1/2" + 5/8" Drywall on 1/4" Wood Squares
All Layers Spot Laminated at 24" OC and Screwed
Through Mounts - 2" Batt Insulation in all Cavities

125	160	200	250	315	400	500	630	800	1 K	1.3 K	1.6 K	2 K	2.5 K	3.2 K	4 K	STC
49	53	54	57	60	62	64	66	68	74	79	80	82	83	84	85	69



Concrete and Metal Double Stud Wall
2" Reinforced Concrete Panel
2 Layers 1/4" Drywall On 1/4" Foam Tape Each Side
2 1/2" Metal Studs - All Panels Spot Laminated at 24"
OC and Screwed Through the Mounts
2" Batt Insulation in the Airspace

125	160	200	250	315	400	500	630	800	1 K	1.3 K	1.6 K	2 K	2.5 K	3.2 K	4 K	STC
49	53	60	63	66	68	71	73	76	78	77	78	81	83	87	88	72