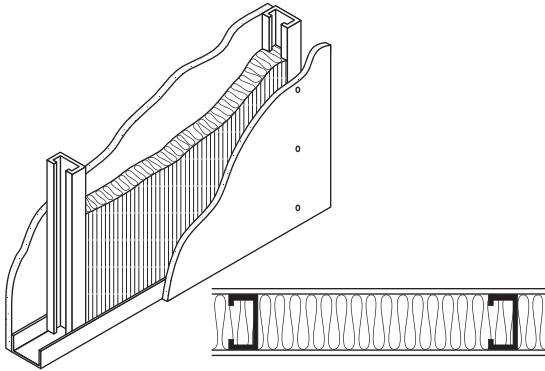




Metal Stud Walls

STC-45

(Figure 13)



2 1/2" metal studs (25 gauge), 24" o.c., single layer 1/2" gypsum board each side, one thickness (2 1/2"-2 3/4") fiber glass batt insulation.

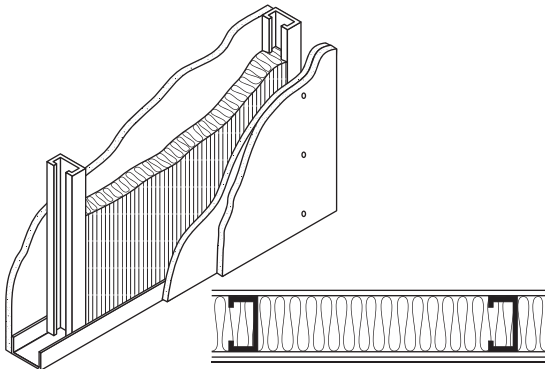
Fire rating - NR

Single Finish

Variation	Construction	Finish*	STC	Fire Rating
13A	1/2" GB No insulation	Single	36	NR
13B	5/8" Type X GB No insulation	Single	39	1 hr.
13C	5/8" Type X GB (2 1/2"-2 3/4") fiber glass batt	Single	47	1 hr.

STC-50

(Figure 14)



2 1/2" metal studs (25 gauge), 24" o.c., single layer 1/2" gypsum board each side, double layer other side, one thickness (2 1/2"-2 3/4") fiber glass batt insulation.

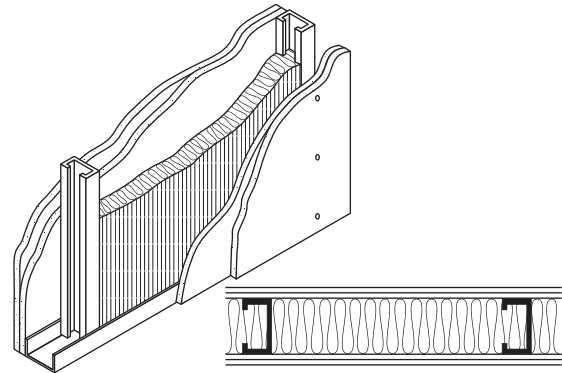
Fire rating - NR

Unbalanced Finish

Variation	Construction	Finish*	STC	Fire Rating
14A	1/2" GB No insulation	Unbal.	39	NR
14B	5/8" Type X GB No insulation	Unbal.	44	1 hr.
14C	5/8" Type X GB (2 1/2"-2 3/4") fiber glass batt.	Unbal.	52	1 hr.

STC-54

(Figure 15)



2 1/2" metal studs (25 gauge), 24" o.c., double layer 1/2" gypsum board each side, one thickness (2 1/2"-2 3/4") fiber glass batt insulation.

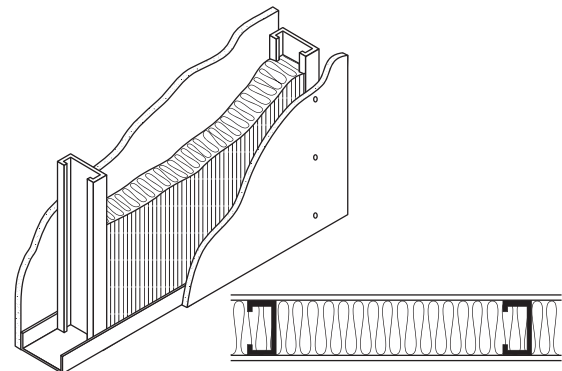
Fire rating - NR

Balanced Finish

Variation	Construction	Finish*	STC	Fire Rating
15A	1/2" Type X GB No insulation	Balanced	45	2 hr.
15B	5/8" Type X GB No insulation	Balanced	48	2 hr.
15C	5/8" Type X GB (2 1/2"-2 3/4") fiber glass batt	Balanced	57	2 hr.

STC-47

(Figure 16)



3 1/2" metal studs (25 gauge), 24" o.c., single layer 1/2" Type X gypsum board each side, one thickness (3 1/2" - 4") fiber glass batt insulation.

Fire rating - 1 hr.

Single Finish

Variation	Construction	Finish*	STC	Fire Rating
16A	1/2" GB No insulation	Single	39	NR
16B	5/8" Type X GB No insulation	Single	39	1 hr.
16C	5/8" Type X GB (3 1/2"-4") fiber glass batt.	Single	50	1 hr.

Source: NAIMA

* Single – one wall finish each side Unbalanced – one wall finish one side, two wall finishes other side Balanced – two wall finishes each side.
Partitions with STC ratings within 1-2 points of the listed criteria are acceptable given the anticipated tolerances in repeat tests. In fact, discrepancies between testing labs of 1-2 dB on identical configurations are not unusual. (Subjectively, the human ear would consider a 1-2 dB change as "non-discernible" at best, which is insignificant).

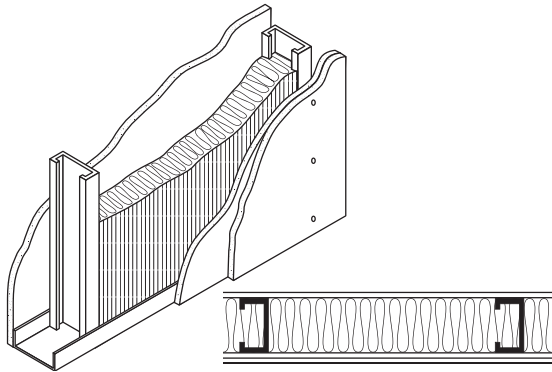


Typical Wall Assemblies



STC-52

(Figure 17)



3½" metal studs (25 gauge), 24" o.c., single layer ½" gypsum board one side, double layer other side, one thickness (3 ½"-4") fiber glass batt insulation.

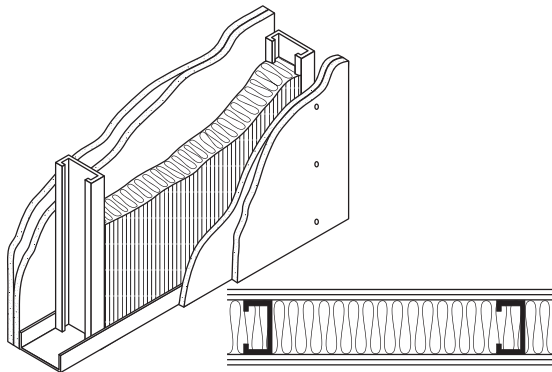
Fire rating - NR

Unbalanced Finish

Variation	Construction	Finish*	STC	Fire Rating
17A	½" GB No insulation	Unbal.	42	NR
17B	¾" Type X GB No insulation	Unbal.	47	1 hr.
17C	¾" Type X GB (3 ½"-4") fiber glass batt	Unbal.	55	1 hr.

STC-56

(Figure 18)



3½" metal studs (25 gauge), 24" o.c., double layer ½" Type X gypsum board each side, one thickness (3 ½"-4") fiber glass batt insulation.

Fire rating - 2 hr

Balanced Finish

Variation	Construction	Finish*	STC	Fire Rating
18A	½" Type X GB No insulation	Balanced	50	2 hr.
18B	¾" Type X GB No insulation	Balanced	52	2 hr.
18C	5/8" Type X GB (3 ½"-4") fiber glass batt	Balanced	58	2 hr.

Source: NAIMA

* Single – one wall finish each side Unbalanced – one wall finish one side, two wall finishes other side Balanced – two wall finishes each side.
Partitions with STC ratings within 1-2 points of the listed criteria are acceptable given the anticipated tolerances in repeat tests. In fact, discrepancies between testing labs of 1-2 dB on identical configurations are not unusual. (Subjectively, the human ear would consider a 1-2 dB change as "non-discernible" at best, which is insignificant.)