

COLUMN & BEAM PROTECTION

SOUND TRANSMISSION CLASS (STC)

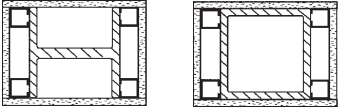
CONSTRUCTION

DESCRIPTION

DESIGN NUMBER/
TEST REPORTS

FIRE RESISTANCE RATING: 1h

Column



Minimum W200 x 46 (W8 x 31) or HSS -M/D 55 steel column.
Weight: 15 kg/m² (3 lb/ft²)

System WC1A

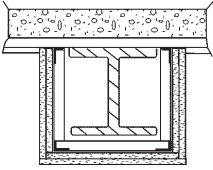
15.9mm (5/8") ProRoc Type X, 1 layer. 41mm (1 5/8") steel studs positioned at column corners, 12.7mm (1/2") less than column height. Install board vertically with 25mm (1") screws spaced 300mm (12") o.c. Apply corner bead with 25mm (1") screws spaced 300mm (12") o.c. Tape and finish joints with ProRoc products.

FIRE: NBCC (1995)

Appendix D
Table D-2.6.1.F.
(see also ULI X528)

FIRE RESISTANCE RATING: 2h

Beam



Minimum W200 x 36 (W8 x 24) steel beam.
Weight: 29 kg/m² (6 lb/ft²)

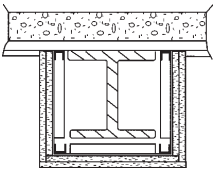
System WB2A

15.9mm (5/8") ProRoc Type X, 2 layers. 43mm x 25mm (1 11/16" x 1") steel channels and 25mm x 50mm (1" x 2") steel angles.

Leave a minimum 13mm (1/2") clearance at sides and bottom of beam. Attach angle to steel deck with 12mm (1/2") Phillips pan head screws spaced 300mm (12") o.c. Attach channel brackets to angle 600mm (24") o.c. with 12mm (1/2") Phillips pan head screws. Attach steel angle to lower corners of U-brackets with 12mm (1/2") Phillips pan head screws at 400mm (16") o.c. Install base layer of board with 32mm (1 1/4") screws spaced 400mm (16") o.c. Install face layer with 44mm (1 3/4") screws spaced 200mm (8") o.c. Joints must be offset. Attach corner bead, tape and finish joints with ProRoc products.

FIRE: ULC O501

Beam



Minimum W200 x 36 (W8 x 24) steel beam.
Weight: 29 kg/m² (6 lb/ft²)

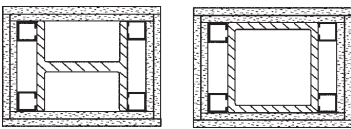
System WB2B

15.9mm (5/8") ProRoc Type X, 2 layers. 43mm x 25mm (1 11/16" x 1") steel channels.

Leave a minimum 13mm (1/2") clearance at sides and bottom of beam. Attach angle to steel deck with 12mm (1/2") Phillips pan head screws spaced 300mm (12") o.c. Attach channel brackets to angle 600mm (24") o.c. with 12mm (1/2") Phillips pan head screws. Insert channel angle in bracket, screw attachment is not required. Install base layer of board with 32mm (1 1/4") screws spaced 400mm (16") o.c. Install face layer with 44mm (1 3/4") screws spaced 200mm (8") o.c. Joints must be offset. Attach corner bead, tape and finish joints with ProRoc products.

FIRE: ULC O502

Column



Minimum W250 x 73 (W10 x 49) steel column.
Weight: 29 kg/m² (6 lb/ft²)

System WC2A

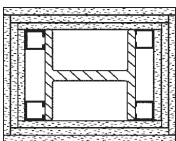
15.9mm (5/8") ProRoc Type X, 2 layers. 41mm (1 5/8") steel studs positioned at column corners, 12.7mm (1/2") less than column height. Install base layer of board vertically with 25mm (1") screws spaced 600mm (24") o.c. Install face layer vertically with 44mm (1 3/4") screws spaced 300mm (12") o.c. Apply corner bead with 41mm (1 5/8") screws spaced 300mm (12") o.c. Tape and finish joints with ProRoc products.

FIRE: NBCC (1995)

Appendix D
Table D-2.6.1.F.
(see also ULI X528)

FIRE RESISTANCE RATING: 3h

Column



Minimum W250 x 73 (W10 x 49) steel column.
Weight: 39 kg/m² (8 lb/ft²)

System WC3A

15.9mm (5/8") ProRoc Type X, 3 layers. 41mm (1 5/8") steel studs positioned at column corners, 12.7mm (1/2") less than column height. Install base layer of board vertically with 25mm (1") screws spaced 600mm (24") o.c. Install second layer vertically with 44mm (1 3/4") screws spaced 300mm (12") o.c. Install face layer vertically with 57mm (2 1/4") No. 8 screws spaced 300mm (12") o.c. Apply corner bead with 51mm (2") 6d nails spaced 300mm (12") o.c. Tape and finish joints with ProRoc products.

FIRE: ULC Z502