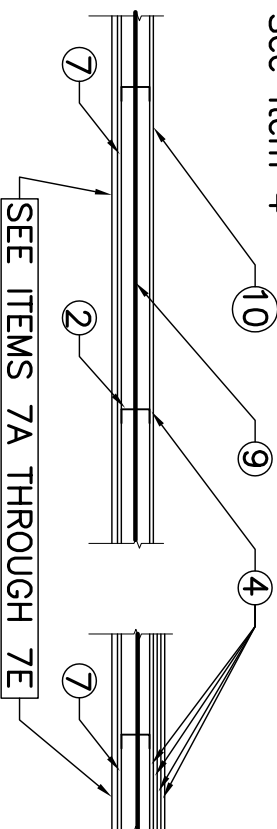


BEARING WALL RATINGS – 45 MIN, 1-1/2 OR 2HR (SEE ITEM 4)  
 LOAD RESTRICTED FOR CANADIAN APPLICATIONS – SEE GUIDE BXUV7

**INTERIOR SIDE**

For Number of Layers and Hourly Ratings  
 See Item 4



1. FLOOR AND CEILING RUNNERS – NOT SHOWN – CHANNEL SHAPED, FABRICATED FROM MIN 0.0329 IN. THICK, BARE METAL THICKNESS (NO. 20 MSG) CORROSION-PROTECTED STEEL, THAT PROVIDE A SOUND STRUCTURAL CONNECTION BETWEEN STEEL STUDS AND ADJACENT ASSEMBLIES SUCH AS FLOORS, CEILINGS AND/OR OTHER WALLS. ATTACH TO FLOOR AND CEILING ASSEMBLIES WITH STEEL FASTENERS SPACED NOT GREATER THAN 24" O.C.

2. STEEL STUDS – MIN 0.0329 IN. THICK, BARE METAL THICKNESS (NO. 20 MSG) CORROSION-PROTECTED STEEL STUDS, MIN 3-1/2" WIDE, COLD FORMED STEEL STRUCTURAL MEMBERS BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI). ALL DESIGN DETAILS ENHANCING THE STRUCTURAL INTEGRITY OF THE WALL ASSEMBLY, INCLUDING THE AXIAL DESIGN LOAD OF THE STUDS, SHALL BE AS SPECIFIED BY THE STEEL STUD DESIGNER AND/OR PRODUCER, AND SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE LOCAL CODE AGENCIES. THE MAX STUD SPACING SHALL NOT EXCEED 24" O.C. (16" O.C. WHEN ITEM 7B IS USED). STUDIES ATTACHED TO FLOOR AND CEILING RUNNERS WITH 1/2" LONG TYPE S-12 STEEL SCREWS ON BOTH SIDES OF THE STUDS OR BY WELDED OR BOLTED CONNECTIONS DESIGNED IN ACCORDANCE WITH THE AISI SPECIFICATIONS.

2A. STEEL STUDS – (FOR USE WITH ITEM 4A) – CHANNEL SHAPED, FABRICATED FROM MIN 20 MSG (0.0327 IN THICK) CORROSION PROTECTED OR GALV. STEEL, 3-1/2" MIN WIDTH, MIN 1-1/2" FLANGES AND 1/4" RETURN, SPACED A MAX OF 16" O.C. STUDS FRICTION FT INTO FLOOR AND CEILING RUNNERS. STUDS TO BE CUT 5/8" TO 3/4" LESS THAN ASSEMBLY HEIGHT.

3. LATERAL SUPPORT MEMBERS – (NOT SHOWN) – WHERE REQUIRED FOR LATERAL SUPPORT OF STUDS, SUPPORT SHALL BE PROVIDED BY MEANS OF STEEL STRAPS, CHANNELS OR OTHER SIMILAR MEANS AS SPECIFIED IN THE DESIGN OF A PARTICULAR STEEL STUD WALL.

4. GYPSUM BOARD\* – GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. VERTICAL JOINTS IN ADJACENT LAYERS (MULTILAYER SYSTEMS) STAGGERED A MINIMUM OF 12". WHEN USED IN WIDTHS OTHER THAN 48", GYPSUM PANELS TO BE INSTALLED HORIZONTALLY. THE THICKNESS AND NUMBER OF LAYERS AND PERCENT OF DESIGN LOAD FOR THE 45 MIN, 1 HR, 1-1/2 HR, AND 2 HR RATINGS ARE AS FOLLOWS:

WALLBOARD PROTECTION ON INTERIOR SIDE OF WALL

RATING	# OF LAYERS & THICKNESS OF PANEL	% OF DESIGN LOAD
45 MIN	1 LAYER, 5/8" THICK	100
1 HR	2 LAYERS, 1/2" THICK	100
1-1/2 HR	2 LAYERS, 5/8" THICK	100
2 HR	3 LAYERS, 1/2" THICK	100
2 HR	2 LAYERS, 3/4" THICK	100

CANADIAN GYPSUM COMPANY – 1/2" THICK TYPE AR, C, IP-AR, IP-X2, IPC-AR, OR WRC; 5/8" THICK TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, OR WRC; 3/4" THICK TYPES AR, IP-AR, IP-X3, ULTRACODE.

UNITED STATES GYPSUM CO – 1/2" THICK, TYPE AR, C, IP-AR, IP-X2, IPC-AR, OR WRC; 5/8" THICK TYPE AR, C, FRX-G, IP-AR, IP-X2, IPC-AR, SCX, SHX, WRX, OR WRC; 3/4" THICK TYPES AR, IP-AR, IP-X3, ULTRACODE.

USG MEXICO S A DE CV – 1/2" THICK TYPE AR, C, IP-AR, IP-X2, IPC-AR, OR WRC; 5/8" THICK TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX OR WRC; 3/4" THICK TYPE AR, IP-AR, IP-X3, ULTRACODE.

4A GYPSUM BOARD\* – (AS AN ALTERNATE TO ITEM 4, WHEN USED AS THE BASE LAYER, FOR DIRECT ATTACHMENT ONLY) – NOM 5/8" THICK LEAD BACKED GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY. VERTICAL JOINTS CENTERED OVER STUDS WITH 1-1/4" LONG TYPE S-12 STEEL SCREWS SPACED 8" O.C. IN THE FIELD.  
 RAY-BAR ENGINEERING CORP – TYPE RB-LBG

5. FASTENERS – (NOT SHOWN) – TYPE S-12 STEEL SCREWS USED TO ATTACH PANELS TO RUNNERS (ITEM 1) AND STUDS (ITEM 2) FOR FURRING CHANNELS (ITEM 7). SINGLE LAYER SYSTEMS: 1" LONG FOR 1/2" AND 5/8" THICK PANELS OR 1-1/4" LONG FOR 3/4" PANELS, SPACED 8" O.C. WHEN PANELS ARE APPLIED HORIZONTALLY, OR 12" O.C. WHEN PANELS ARE APPLIED VERTICALLY. TWO LAYER SYSTEMS: FIRST LAYER – 1" LONG FOR 1/2" AND 5/8" PANELS OR 1-1/4" LONG FOR 3/4" THICK PANELS, SPACED 16" O.C. SECOND LAYER – 1-5/8" LONG FOR 1/2" THICK PANELS OR 2-1/4" LONG FOR 3/4" THICK PANELS, SPACED 16" O.C. WITH SCREWS OFFSET 8" FROM FIRST LAYER. THREE LAYER SYSTEMS: FIRST LAYER – 1" LONG FOR 1/2" THICK PANELS SPACED 24" O.C. SECOND LAYER – 1-5/8" LONG FOR 1/2" THICK PANELS, SPACED 24" O.C. THIRD LAYER – 2-3/4" LONG FOR 1/2" PANELS, SCREWS OFFSET A MIN OF 6" FROM LAYER BELOW.

6. BUILDING PAPER (NOT SHOWN) – NO. 15 ASPHALT FELT OR EQUIVALENT AS REQ'D.

7. GYPSUM SHEATHING – FOR EXTERIOR WALLS, 1/2" OR 5/8" THICK EXTERIOR REGULAR GYPSUM SHEATHING APPLIED VERTICALLY OR HORIZONTALLY, ATTACHED TO STUDS AND RUNNERS WITH 1" LONG TYPE S12 SCREWS SPACED 12" O.C. ALONG STUDS AND RUNNERS. ONE OF THE FOLLOWING EXTERIOR FACINGS SHALL BE APPLIED OVER THE GYPSUM SHEATHING:

A. SIDING, BRICK OR STUCCO – ALUMINUM, VINYL OR STEEL SIDING, BRICK VENEER OR STUCCO, MEETING THE REQUIREMENTS OF LOCAL CODE AGENCIES. WHEN A MIN 3-3/4" THICK BRICK VENEER FACING IS USED, THE RATING IS APPLICABLE FOR EXPOSURE ON EITHER SIDE. BRICK VENEER ATTACHED TO STUDS WITH CORRUGATED METAL WALL TIES ATTACHED TO EACH STUD WITH STEEL SCREWS, NOT MORE THAN EACH SIXTH COURSE OF BRICK.

B. CEMENTIOUS BACKER UNITS\* – 1/2" OR 5/8" THICK PANELS, ATTACHED TO STEEL STUDS OVER GYPSUM SHEATHING WITH 1-5/8" LONG, TYPE S-12 CORROSION RESISTANT, WATER-HEAD STEEL SCREWS, SPACED 8" O.C. STUDS SPACED A MAX OF 16" O.C. JOINTS COVERED WITH FIBER MESH TAPE.

UNITED STATES GYPSUM CO – DUROCK EXTERIOR CEMENT BOARD OR DUROCK BRAND CEMENT BOARD.

C. FOAMED PLASTIC\* – AGED EXPANDED POLYSTYRENE (EPS) BOARD PER ASTM C578, WITH NOM DENSITY NOT LESS THAN 1 PCF, R-VALUE 3.8 MIN PER INCH WITH A FLAME SPREAD OF LESS THAN 25 AND A SMOKE DEVELOPED OF LESS THAN 450, ADHERED TO THE GYPSUM SHEATHING (ITEM 7) OR THE CEMENTIOUS BACKER UNITS (ITEM 7B) WITH USG EXTERIOR INSULATION BOARD ADHESIVE. SEE FOAMED PLASTIC (BRX AND / OR CCW) CATEGORIES FOR NAMES OF CLASSIFIED COMPANIES.

D. WALL AND PARTITION FACINGS AND ACCESSORIES\* – MIN 3/32" THICK, APPLIED OVER THE GYPSUM SHEATHING (ITEM 7) OR THE CEMENTIOUS BACKER UNITS (ITEM 7B) OR THE INSULATION BOARD (ITEM 7C), TO EMBED AN OPEN-WEAVE FIBERGLASS MESH (MESH WEIGHING NOT LESS THAN 4.5 OZ PER SQ YD, TREATED FOR ALKALINE RESISTANCE). INSTRUCTIONS PROVIDED WITH THE PRODUCT SHALL BE CONSULTED REGARDING LIMITATIONS ON THE USE OF THE PRODUCT.

UNITED STATES GYPSUM CO – USG EXTERIOR BASECOAT

E. WALL AND PARTITION FACINGS AND ACCESSORIES\* – MIN 1/16" THICK, APPLIED OVER BASECOAT (ITEM 7D). INSTRUCTIONS PROVIDED WITH THE PRODUCT SHALL BE CONSULTED REGARDING LIMITATIONS ON THE USE OF THE PRODUCT.

UNITED STATES GYPSUM CO – USG EXTERIOR TEXTURED FINISH OR USG EXTERIOR STONE FINISH.

8. FURRING CHANNELS – (OPTIONAL, NOT SHOWN, FOR SINGLE OR DOUBLE LAYER SYSTEMS) – RESILIENT FURRING CHANNELS FABRICATED FROM MIN 25 MSG CORROSION-PROTECTION STEEL, SPACED VERTICALLY A MAX OF 24" O.C. FLANGE PORTION ATTACHED TO EACH INTERSECTING STUD WITH 1/2" LONG TYPE S-12 SCREWS. NOT FOR USE WITH TYPE FRX GYPSUM PANELS.

9. BATTS AND BLANKETS\* – (OPTIONAL, NOT SHOWN) – PLACED IN STUD CAVITIES, ANY GLASS FIBER OR MINERAL WOOL INSULATION BEARING TO THE UL CLASSIFICATION MARKING AS TO SURFACE BURNING CHARACTERISTICS AND / OR FIRE RESISTANCE. SEE BATTS AND BLANKETS (BKV AND / OR BZLZ) CATEGORIES FOR NAMES OF CLASSIFIED COMPANIES.

10. JOINT TAPE AND COMPOUND – VINYL OR CASEIN, DRY OR PREMIKED JOINT COMPOUND APPLIED IN 2 COATS TO JOINTS AND SCREW HEADS OF INTERIOR FACE LAYER. PAPER TAPE, NOM 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS OF INTERIOR FACE LAYER. PAPER TAPE AND JOINT COMPOUND MAY BE OMITTED WHEN GYPSUM BOARDS ARE SUPPLIED WITH SQUARE EDGES.

11. CAULKING AND SEALANTS\* – (OPTIONAL, NOT SHOWN) – A BEAD OF ACOUSTICAL SEALANT APPLIED AROUND THE PARTITION PERIMETER ON THE INTERIOR SIDE FOR SOUND CONTROL.

UNITED STATES GYPSUM CO – TYPE AS

12. LEAD BATTEN STRIPS – (NOT SHOWN, FOR USE WITH ITEM 4A) – LEAD BATTEN STRIPS, MIN 1-1/2" WIDE, MAX 10' LONG WITH A MAX THICKNESS OF 0.125" STRIPS PLACED ON THE INTERIOR FACE OF STUDS AND ATTACHED FROM THE EXTERIOR FACE OF THE STUD WITH TWO 1" LONG TYPE S-12 PAN HEAD STEEL SCREWS, ONE AT THE TOP OF THE STRIP AND ONE AT THE BOTTOM OF THE STRIP. LEAD BATTEN STRIPS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-1-201F, GRADE "C". LEAD BATTEN STRIPS REQUIRED BEHIND VERTICAL JOINTS OF LEAD BACKED GYPSUM WALLBOARD (ITEM 4A) AND OPTIONAL AT REMAINING STUD LOCATIONS.

13. LEAD DISCS OR TABS – (NOT SHOWN, FOR USE WITH ITEM 4A) – USED IN USE OF OR IN ADDITION TO THE LEAD BATTEN STRIPS (ITEM 12) OR OPTIONAL AT OTHER LOCATIONS – MAX 3/4" DIA BY MAX 0.125" THICK LEAD DISKS COMPRESSION FITTED OR ADHERED OVER STEEL SCREW HEADS OR MAX 1/2" BY 1-1/4" BY MAX 0.125" THICK LEAD TABS PLACED ON GYPSUM BOARDS (ITEM 4A) UNDERNEATH SCREWS. LEAD DISCS OR TABS TO HAVE PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-1-201F, GRADE "C".

\*BEARING THE UL CLASSIFICATION MARK

LAST UPDATED 2007-07-30

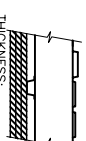
GA FILE NO. WP 9021 GENERIC

GYPSUM WALLBOARD, RIGID FURRING CHANNELS, STEEL GIRTS, STEEL WALL PANELS

EXTERIOR SIDE: Minimum 26 gage steel exterior wall panels applied at right angles to horizontal, 6" to 12" deep, "Z" or "C" shaped, 0.056" to 0.120" thick steel girts 48" o.c. with 1 1/2" long, No. 12-14 self-drilling screws 12" o.c.

INTERIOR SIDE: Base layer 3/8" type X gypsum wallboard applied parallel or at right angles to rigid furring channels 24" o.c. with 1" type S drywall screws 24" o.c. Furring channels attached at right angles to girts with two 3/8" long, type S-12 painted screws at each girt. Second layer 5/8" type X gypsum wallboard applied parallel or at right angles to channels with 1 3/8" type S drywall screws 12" o.c. Joints offset 24" from base layer joints. Face layer 3/4" type X gypsum wallboard applied parallel or at right angles to channels with 2 1/2" type S drywall screws 12" o.c. Joints offset 24" from second layer joints. (LOAD-BEARING) offset 24" from second layer joints. (LOAD-BEARING)

1 HOUR FIRE



THICKNESS: APPROX. WEIGHT: VARIES  
 8 PSF  
 UL R7406, R4024, R4025, R4026, R4027, R4028, R4029, R4030, R4031, R4032, R4033, R4034, R4035, R4036, R4037, R4038, R4039, R4040, R4041, R4042, R4043, R4044, R4045, R4046, R4047, R4048, R4049, R4050, R4051, R4052, R4053, R4054, R4055, R4056, R4057, R4058, R4059, R4060, R4061, R4062, R4063, R4064, R4065, R4066, R4067, R4068, R4069, R4070, R4071, R4072, R4073, R4074, R4075, R4076, R4077, R4078, R4079, R4080, R4081, R4082, R4083, R4084, R4085, R4086, R4087, R4088, R4089, R4090, R4091, R4092, R4093, R4094, R4095, R4096, R4097, R4098, R4099, R4100, R4101, R4102, R4103, R4104, R4105, R4106, R4107, R4108, R4109, R4110, R4111, R4112, R4113, R4114, R4115, R4116, R4117, R4118, R4119, R4120, R4121, R4122, R4123, R4124, R4125, R4126, R4127, R4128, R4129, R4130, R4131, R4132, R4133, R4134, R4135, R4136, R4137, R4138, R4139, R4140, R4141, R4142, R4143, R4144, R4145, R4146, R4147, R4148, R4149, R4150, R4151, R4152, R4153, R4154, R4155, R4156, R4157, R4158, R4159, R4160, R4161, R4162, R4163, R4164, R4165, R4166, R4167, R4168, R4169, R4170, R4171, R4172, R4173, R4174, R4175, R4176, R4177, R4178, R4179, R4180, R4181, R4182, R4183, R4184, R4185, R4186, R4187, R4188, R4189, R4190, R4191, R4192, R4193, R4194, R4195, R4196, R4197, R4198, R4199, R4200, R4201, R4202, R4203, R4204, R4205, R4206, R4207, R4208, R4209, R4210, R4211, R4212, R4213, R4214, R4215, R4216, R4217, R4218, R4219, R4220, R4221, R4222, R4223, R4224, R4225, R4226, R4227, R4228, R4229, R4230, R4231, R4232, R4233, R4234, R4235, R4236, R4237, R4238, R4239, R4240, R4241, R4242, R4243, R4244, R4245, R4246, R4247, R4248, R4249, R4250, R4251, R4252, R4253, R4254, R4255, R4256, R4257, R4258, R4259, R4260, R4261, R4262, R4263, R4264, R4265, R4266, R4267, R4268, R4269, R4270, R4271, R4272, R4273, R4274, R4275, R4276, R4277, R4278, R4279, R4280, R4281, R4282, R4283, R4284, R4285, R4286, R4287, R4288, R4289, R4290, R4291, R4292, R4293, R4294, R4295, R4296, R4297, R4298, R4299, R4300, R4301, R4302, R4303, R4304, R4305, R4306, R4307, R4308, R4309, R4310, R4311, R4312, R4313, R4314, R4315, R4316, R4317, R4318, R4319, R4320, R4321, R4322, R4323, R4324, R4325, R4326, R4327, R4328, R4329, R4330, R4331, R4332, R4333, R4334, R4335, R4336, R4337, R4338, R4339, R4340, R4341, R4342, R4343, R4344, R4345, R4346, R4347, R4348, R4349, R4350, R4351, R4352, R4353, R4354, R4355, R4356, R4357, R4358, R4359, R4360, R4361, R4362, R4363, R4364, R4365, R4366, R4367, R4368, R4369, R4370, R4371, R4372, R4373, R4374, R4375, R4376, R4377, R4378, R4379, R4380, R4381, R4382, R4383, R4384, R4385, R4386, R4387, R4388, R4389, R4390, R4391, R4392, R4393, R4394, R4395, R4396, R4397, R4398, R4399, R4400, R4401, R4402, R4403, R4404, R4405, R4406, R4407, R4408, R4409, R4410, R4411, R4412, R4413, R4414, R4415, R4416, R4417, R4418, R4419, R4420, R4421, R4422, R4423, R4424, R4425, R4426, R4427, R4428, R4429, R4430, R4431, R4432, R4433, R4434, R4435, R4436, R4437, R4438, R4439, R4440, R4441, R4442, R4443, R4444, R4445, R4446, R4447, R4448, R4449, R4450, 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