

Time assigned to 5/8 inch Type X gypsum wallboard
= 40 min. (Table 722.6.2(1))

Time assigned for contribution of wood studs @ 16" o.c.
= 20 min. (Table 722.6.2(2))

Calculated fire rating of the wall = 40 + 20
= 60 min. (from both sides)

A minimum fire-resistance rating of 1 hour is required on the underside when the projection is ≥ 2 feet to < 5 feet from property line.
(No projections are allowed < 2 feet from property line)

Note: Install wind strapping to provide continuous ties from the roof ridge to the foundation system as per appendix L of the Residential Code.

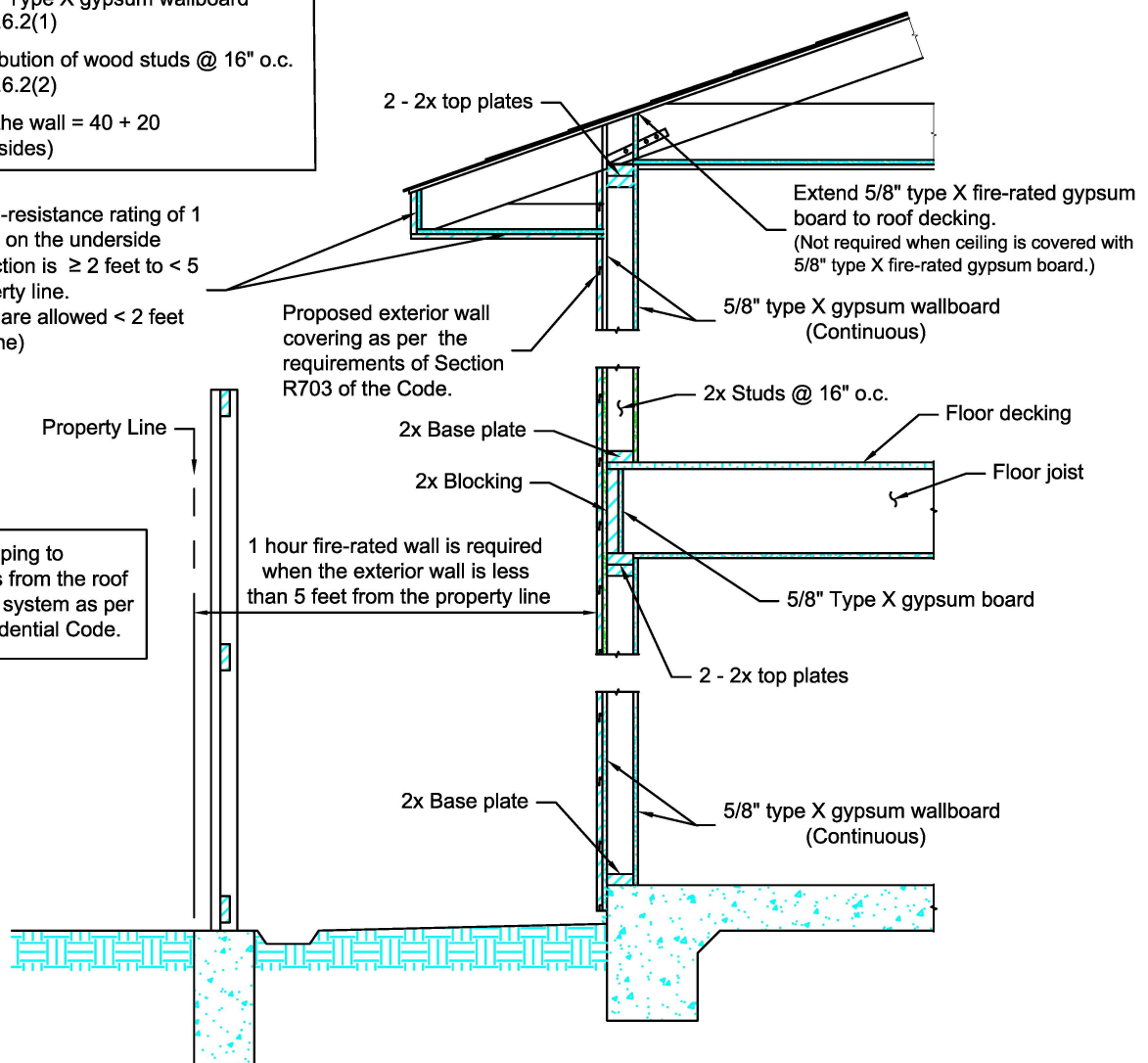


TABLE R302.1(1) EXTERIOR WALLS

EXTERIOR WALL ELEMENT		MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour—tested in accordance with ASTM E 119 or UL 263 with exposure from both sides	< 5 feet
	Not fire-resistance rated	0 hours	≥ 5 feet
Projections	Not allowed	N/A	< 2 feet
	Fire-resistance rated	1 hour on the face and underside	≥ 2 feet to < 5 feet
	Not fire-resistance rated	0 hours	≥ 5 feet
Openings in walls	Not allowed	N/A	< 3 feet
	25% maximum of wall area	0 hours	3 feet
	Unlimited	0 hours	5 feet
Penetrations	All	Comply with Section R302.4	< 3 feet
		None required	3 feet



STANDARD DRAWING

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
BUILDING CODE ENFORCEMENT

**1 HOUR FIRE-RATED WOOD STUD
EXTERIOR WALL - MULTI-STORY**

1002 WASHINGTON AVE., HOUSTON, TEXAS 77002

APPROVED BY:

BUILDING OFFICIAL

DATE:
11 / 15 / 2022

DWG No:
22-08-R Rev. 1

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