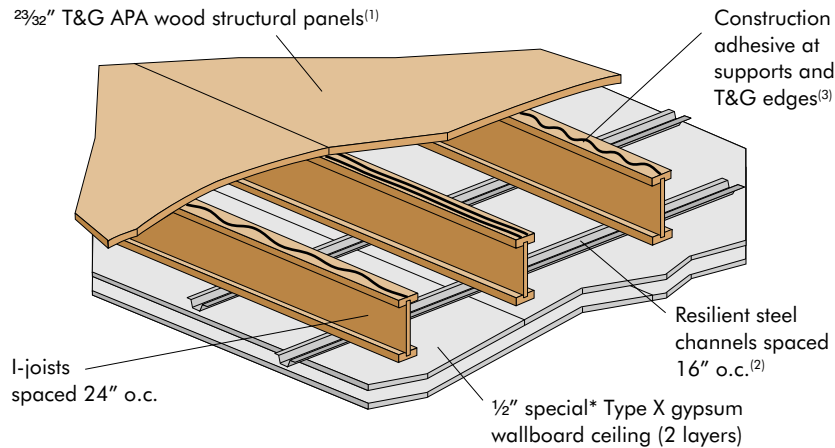


# FLOOR SYSTEMS

## ONE-HOUR FIRE-RATED SYSTEM WITH I-JOISTS

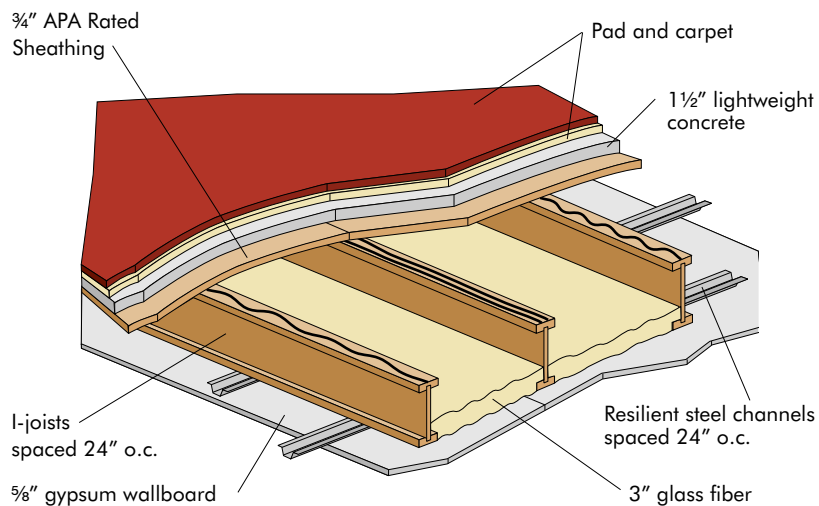
For details, see U.L. Design No. L544 (illustrated below) with I-joists spaced 24" o.c. maximum. Also see GA File No. FC5406 for generic, non-proprietary assembly. Also see APA code evaluation reports for joists with other floor deck and ceiling options.



\* For proprietary names, see latest U.L. Fire Resistance Directory.

- (1) Tests have shown that substitution of OSB or composite APA Rated Sturd-I-Floor for plywood panels in fire-rated single-layer assemblies will not jeopardize fire-resistance ratings. Substitution is based on equivalent panel thickness. OSB panels are listed as alternates to plywood for finish flooring in accordance with product evaluation reports for APA PRI trademarked I-joists.
- (2) For improved acoustical performance, gypsum wallboard is fastened to resilient metal furring channels in some assemblies.
- (3) Construction adhesive must conform to APA Specification AFG-01, or ASTM D3498.

## NOISE-RATED FLOOR SYSTEM WITH I-JOISTS



## SOUND RATINGS FOR FLOORS USING I-JOISTS

Test Sponsor and Number <sup>(1)</sup>	Floor	Deck	Gypsum Wallboard Ceiling	Insulation	STC Rating	IIC Rating	Weight (lbs./sq. ft.)
G&H USDA 11 ST	Vinyl Tile	1 1/2" of 100-pcf cellular concrete over 3/4" APA Rated Sheathing subfloor on joists at 24" o.c.	5/8" screwed to resilient metal channels	3" glass fiber	58	50	21.0
	Carpet & Pad				58	77	
G&H USDA 11x ST	None			None	57	None	20.7

(1) USDA Forest Service Wood Construction Research (Seattle, WA); acoustical tests by Geiger & Hamme, Inc. (Ann Arbor, MI)