

Fire-Rated Vercor Roof Deck (UL)



Vercor roof decks may be used in assemblies which are required to meet hourly fire ratings. Approved hourly fire rated assemblies are a combination of specific proprietary materials as listed in the UL fire resistance directory.

Refer to Table 11 below for a listing of UL fire-rated assemblies utilizing Vercor roof deck profiles. Refer to the particular UL assembly being considered for full details of construction, including specific information about fill or fireproofing thicknesses and span limitations.

ROOF DECK FIRE RESISTANCE RATINGS

Table 11 2, 3, 4, 6, 7

RESTRAINED ASSEMBLY RATING (hr)	UL #	FRAME	SYSTEM	DECK ¹					PROTECTED ⁵
				B	N3	N24	W2	VERCOR	
1-1½	P225	Beam/Joist	Deck/Board	✓	✓	✓			AC Ceiling
1-1½	P230	Beam/Joist	Deck/Board	✓					AC Ceiling
1-3	P518	CFS	Deck/Board	✓				✓	Gyp Board
¾-2	P701	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-2	P711	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-2	P717	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-3	P719	Beam/Joist	Deck/Board	✓	✓	✓	✓		SFRM
1-3	P723	Beam/Joist	Deck/Board	✓	✓	✓	✓		SFRM
¾-2	P726	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-3	P732	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
¾-2	P734	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-2	P739	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-2	P740	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-2	P741	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-2	P742	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-2	P743	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
¾-2	P748	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-3	P750	Beam/Joist	Deck/Board	✓	✓	✓	✓		SFRM
1-3	P751	Beam/Joist	Deck/Board	✓	✓	✓	✓		SFRM
1-2	P819	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-2	P829	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-2	P837	Beam/Joist	Deck/Board	✓	✓	✓			SFRM
1-2	P838	Beam/Joist	Deck/Board	✓	✓	✓			SFRM

(continued on next page)

Table 11 (continued)

RESTRAINED ASSEMBLY RATING (hr)	UL #	FRAME	SYSTEM	DECK ¹					PROTECTED ⁵
				B	N3	N24	W2	VERCOR	
1-2	P907	Beam/Joist	Insulating Concrete					✓	No
1-2	P908	Beam/Joist	Insulating Concrete					✓	No
1-2	P920	Beam/Joist	Insulating Concrete	✓	✓	✓	✓		No
1-2	P921	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P922	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P923	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P925	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P926	Beam/Joist	Insulating Concrete					✓	No
1-2	P927	Beam/Joist	Insulating Concrete					✓	No
1-2	P928	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P929	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P930	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P936	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P937	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P938	Beam/Joist	Insulating Concrete					✓	No
1-2	P939	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P940	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P943	Beam/Joist	Insulating Concrete					✓	No
1-2	P944	Beam/Joist	Insulating Concrete	✓	✓	✓	✓		No
1-2	P945	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No
1-2	P947	Beam/Joist	Insulating Concrete	✓	✓	✓	✓	✓	No

1. "B" = PLB and HSB, PLB and B FORMLOK
 "N24" = PLN and N, PLN and N FORMLOK
 "N3" = PLN3 and HSN3, PLN3 and N3 FORMLOK
 "W2" = PLW2 and W2 FORMLOK
 "VERCOR" = 1⁵/₁₆" Deep VERCOR
2. Refer to UL Fire Resistance Directory, Evaluation Reports for Verco Steel Deck, or municipality requirements for full details of construction including usage limitations and mesh requirements.
3. Also see various "unclassified" listings that may apply to Verco decks based on deck profile.
4. Code-compliant Verco gray primer paint is formulated for compatibility with spray-applied fireproofing. Verco steel decks in the protected assemblies listed above may be galvanized or painted, excluding assemblies P230, P726 and P748, which shall be galvanized only. Verco steel decks in the unprotected assemblies listed above shall be galvanized only. Galvanized decks with primer painted underside are not approved for use in fire-rated systems.
5. Protected assemblies have spray-applied fireproofing applied directly to the underside of the deck. Unprotected assemblies do not require spray-applied fireproofing applied to the underside of the deck.
 "AC Ceiling = Fire Rated Acoustical Ceiling system."
 "Gyp Board = UL Classified Gypsum Board."
 "SFRM = Spray-Applied Fire Resistive Materials."
6. Verco Decking, Inc. assumes no responsibility for adhesion of any spray-applied fireproofing material, nor for any treatment, cleaning, or surface preparation of the deck required for adhesion of fire protection material.
7. Sidelap fastening with the PunchLok® II Tool, button punches, or seam welds is required for fluted decks, except for P225, P518, P717, P719, P723, P732, P739, P741, P743, P750, P751, P819, P829, and P929, which also allow screws.