

COLUMNS: Wide Flange

FIRE TEST: ASTM E-119

COLUMN SIZE	U.L. DESIGN NO.	HOURLY RATING	MATERIAL THICKNESS
W10 x 49	X-313	1 hr.	3/4 in.
	X-313	1-1/2 hrs.	1-1/4 in.
	X-313	2 hrs.	1-1/2 in.
	X-313	3 hrs.	2-1/2 in.
W12 x 120	X-313	4 hrs.	1-1/2 in.

BEAMS: Roof / Ceiling (restrained & unrestrained)

FIRE TEST: ASTM E-119

BEAM SIZE	U.L. DESIGN NO.	HOURLY RATING	MATERIAL THICKNESS
W8 x 31	S-301	1 hr.	3/4 in.
	S-301	1-1/2 hrs.	3/4 in.
	S-301	2 hrs. (restrained)	3/4 in.
	S-301	2 hrs. (unrestrained)	1-5/8 in.
	S-301	3 hrs. (restrained)	1-5/8 in.

BEAMS: Floor / Ceiling (restrained & unrestrained)

FIRE TEST: ASTM E-119

BEAM SIZE	U.L. DESIGN NO.	HOURLY RATING	MATERIAL THICKNESS
W8 x 31	N-307	1 hr.	3/4 in.
	N-307	1-1/2 hr.	3/4 in.
	N-307	2 hrs. (restrained)	3/4 in.
	N-307	2 hrs. (unrestrained)	1-5/8 in.
	N-307	3 hrs. (restrained)	1-5/8 in.

BEAMS: Unprotected Roof/Ceiling (restrained & unrestrained)

FIRE TEST: ASTM E-119

BEAM SIZE	U.L. DESIGN NO.	HOURLY RATING	MATERIAL THICKNESS
W8 x 31	P-930	1 hr.	3/4 in.
	P-930	1-1/2 hrs.	3/4 in.
	P-930	2 hrs. (restrained)	3/4 in.
	P-930	2 hrs. (unrestrained)	1-5/8 in.

BEAMS: Protected Roof / Ceiling (restrained & unrestrained)

FIRE TEST: ASTM E-119

COLUMN SIZE	U.L. DESIGN NO.	HOURLY RATING	MATERIAL THICKNESS
W8 x 31	P-302	1 hr.	1 in.

ASSEMBLY: Floor / Ceiling (restrained)

FIRE TEST: ASTM E-119

COLUMN SIZE	U.L. DESIGN NO.	HOURLY RATING	MATERIAL THICKNESS
W8 x 31	D-929	1 hr.	3/4 in.
	D-929	1-1/2 hr.	3/4 in.
	D-929	2 hrs.	3/4 in.
	D-929	3 hrs.	1-5/8 in.



ASSEMBLY: Floor / Ceiling (unrestrained)

FIRE TEST: ASTM E-119

BEAM SIZE	U.L. DESIGN NO.	HOURLY RATING	MATERIAL THICKNESS
W8 x 31	D-929	1 hr.	3/4 in.
	D-929	1-1/2 hr.	3/4 in.
	D-929	2 hrs.	1-5/8 in.

ASSEMBLY: Protected Floor / Ceiling (restrained & unrestrained)

FIRE TEST: ASTM E-119

BEAM SIZE	U.L. DESIGN NO.	HOURLY RATING	MATERIAL THICKNESS
W8 x 31	D-303	1 hr.	3/4 in.
	D-303	1-1/2 hr.	3/4 in.
	D-303	2 hr. (restrained)	3/4 in.
	D-303	2 hr. (unrestrained)	1-5/8 in.
	D-303	3 hr. (restrained)	1-5/8 in.

ASSEMBLY: Floor / Ceiling (restrained & unrestrained)

FIRE TEST: ASTM E-119

BEAM SIZE	U.L. DESIGN NO.	HOURLY RATING	MATERIAL THICKNESS
W8 x 31	G-301	3 hr.	1 in.

ASSEMBLY: Protected Floor / Ceiling (restrained & unrestrained)

FIRE TEST: ASTM E-119

BEAM SIZE	U.L. DESIGN NO.	HOURLY RATING	MATERIAL THICKNESS
W8 x 31	J-301	1 hr.	3/4 in.
	J-301	1-1/2 hr.	3/4 in.
	J-301	2 hr. (restrained)	3/4 in.
	J-301	2 hr. (unrestrained)	1-5/8 in.
	J-301	3 hr. (restrained)	1-5/8 in.