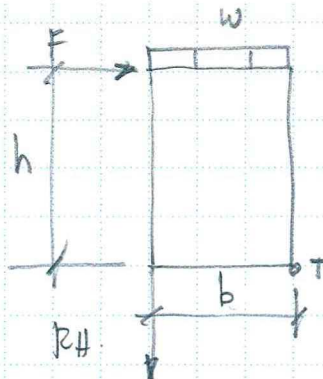


SHEAR WALL OVERTURNING

$$\sum M_c + = 0$$

$$R_H = Fh - \frac{(1/2)wb^2}{b}$$

$$w = 0.48 \text{ DEAD LOAD}$$



WALL LINE	b, FT.	F, LBS	h, FT.	w, LBS/FT	R _H , LBS	USE
UPPER WALLS	C	1000	1.5	225	-165	NONE
	M	428	1.5 ①	260	123	KING STUD NAILING
	M	2050	6.0	260	-2223	NONE
	3	317	1.5 ①	40	130	KING STUD NAILING
	3	683	3.5	40	-93	NONE
	B	238	1.5 ①	45	65	KING STUD NAILING
	B	493	4.5	45	-139	NONE
	9	425	1.5 ①	40	28	KING STUD NAILING
	9	850	7.0	60	-233	NONE
MAIN LEVEL WALLS	A-GAR	412	13.0	80	1179	KING STUD NAILING
	A-M.BATH	865	9.0	185	150	NONE-MINIMAL
	C	464	11.5	265	590	KING STUD NAILING
	C	979	11.5	265	-1416	NONE
	H	1938	14.0	340	-885	NONE
	I	1212	8.7	275	3102	HOU 4, 2, 2x6
	K	700	10.5	240	2090	HOU 2, 2, 2x6
	L	888	10.0	190	1840	HOU 2, 2, 2x6
	M	3952	12.5	400	-785	NONE
	Q	656	10.0	175	1290	KING STUD NAILING
	R	492	9.5	180	1288	KING STUD NAILING

① BLOCK & STRAP AROUND WINDOWS PER DETAIL SHEET 36.

SHEAR WALL OVERTURNING (CONT.)

	WALL LINE	b, ft.	F, lbs	h, ft.	w, lbs/ft.	RH, lbs	USE
	3	2.8	1112	9.0	60	3490	HOU4, 2, 2x6
	5	2.8	941	9.5	65	3102	HOU4, 2, 2x6
	7	4.0	1120	8.5	65	2250	HOU2, 2, 2x6
MAIN LEVEL WALLS	13	4.0	656	8.5	65	1264	HOU2, 2, 2x6
	14	9.5	1558	8.3	65	1052	HOU2, 2, 2x6
	15	2.5	410	10.0	70	1553	HOU2, 2, 2x6
	16	8.5	1394	10.0	70	1343	HOU2, 2, 2x6
	17	4.5	914	8.2	110	1418	HOU2, 2, 2x6
	20	3.8	490	9.5	200	845	HOU2, 2, 2x6
	21	10.0	450	8.0	60	60	NONE - NEGLIGIBLE