

MATERIALS

- fc 8" precast lintel = 3500 psi
- fc prestressed lintel = 6000 psi
- GROUT per ASTM C476 fc = 3000 psi w/ min. 3000 psi 3 inch aggregate & 8 to 11 inch slump
- Concrete Masonry Units (CMU) per ASTM C90 minimum net area compressive strength = 1900 psi
- Rebar per ASTM A615 grade 60
- Prestressing strand per ASTM A416 grade 270 low relaxation
- Mortar per ASTM C270 type M or S

GENERAL NOTES

- Provide full mortar bed and head joints.
- Shore filled lintels as required.
- Installation of lintel must comply with the architectural and/or structural documents.
- U-Intels are manufactured with 5 1/2" long notches at the ends to accommodate vertical cl rebar and grouting.
- All lintels meet or exceed U360 deflection, except lintels 17'-4" and longer with a nominal height of 8' meet or exceed U180 deflection.
- Bottom field added rebar to be located at the bottom of the lintel cavity.
- 7/32" diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
- Cast-in-place concrete may be provided in composite lintel in lieu of concrete masonry units.

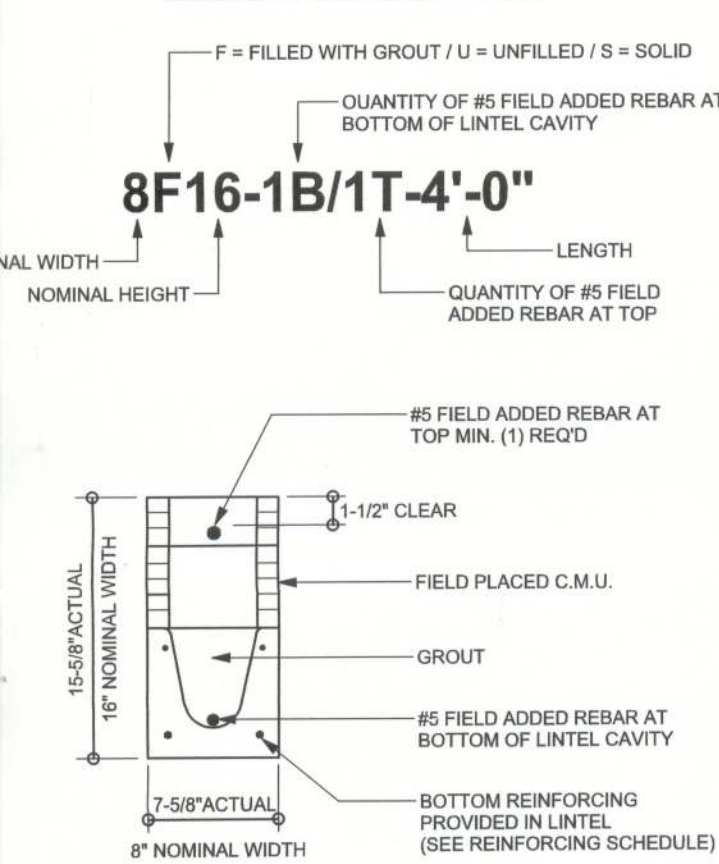
- Safe load rating based on rational design analysis per ACI 318 and ACI 530
- Product Approvals: Miami-Dade County, Florida No. 03-0606.05

- The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in accordance with ASTM C-296 or other approved coating.
- Lintels loaded simultaneously with vertical (gravity or uplift) and horizontal (lateral) loads should be checked for the combined loading with the following equation:

$$\frac{\text{Applied vertical load}}{\text{Safe vertical load}} + \frac{\text{Applied horizontal load}}{\text{Safe horizontal load}} \leq 1.0$$

- Additional lateral load capacity can be obtained by the designer by providing additional reinforced concrete masonry above the lintel. See detail at right:

TYPE DESIGNATION




SAFE LOAD TABLE NOTES

- All values based on minimum 4 inch nominal bearing.
- Exception: Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than 6 1/2 inches.
- N.R. = Not Rated
- Safe loads are superimposed allowable loads.
- Safe loads based on grade 40 or grade 60 field rebar.
- One #7 rebar may be substituted for two #5 rebars in 8" lintels only
- The designer may evaluate concentrated loads from the safe load tables by calculating the maximum resisting moment and shear at d-away from face of support.

- For composite lintel heights not shown, use safe load from next lower height shown.
- For lintels lengths not shown, use safe load from next longest length shown
- All safe loads in units of pounds per linear foot
- All safe loads based on simply supported span.
- The number in the the parenthesis indicates the percent reduction for grade 40 field added rebar.
- Example 7'-6" lintel type 8F32-1B safe gravity load = 6472(0.0469)(15)(10)(0.0781; w/ 15% reduction 6472 > (.85) = 5501 plf

LENGTH	TYPE		SAFE LOAD - POUNDS PER LINEAR FOOT							
			8F8-0B	8F12-0B	8F16-0B	8F20-0B	8F24-0B	8F28-0B	8F32-0B	8F32-0B
2'-0" (34")	PRECAST	2231	8F8-1B	8F12-1B	8F16-1B	8F20-1B	8F24-1B	8F28-1B	8F32-1B	
			3069	4605	6113	7547	8974	10394	11809	
			3069	4605	6113	7547	8974	10394	11809	
3'-6" (42")	PRECAST	2231	3069	4605	6113	7547	8974	10394	11809	
			3069	4605	6113	7547	8974	10394	11809	
			3069	4605	6113	7547	8974	10394	11809	
4'-0" (48")	PRECAST	1966	2693	4005	5313	6621	7929	9237	10545	
			2693	4005	5313	6621	7929	9237	10545	
			2693	4005	5313	6621	7929	9237	10545	
4'-6" (54")	PRECAST	1599	1969	2910	3851	4792	5733	6674	7615	
			1969	2910	3851	4792	5733	6674	7615	
			1969	2910	3851	4792	5733	6674	7615	
4'-8" (64")	PRECAST	1217	1505	2262	3019	3776	4533	5290	6047	
			1505	2262	3019	3776	4533	5290	6047	
			1505	2262	3019	3776	4533	5290	6047	
5'-10" (70")	PRECAST	1062	1349	2022	2695	3368	4041	4714	5387	
			1349	2022	2695	3368	4041	4714	5387	
			1349	2022	2695	3368	4041	4714	5387	
6'-6" (78")	PRECAST	908	1238	1817	2396	2975	3554	4133	4712	
			1238	1817	2396	2975	3554	4133	4712	
			1238	1817	2396	2975	3554	4133	4712	
7'-6" (90")	PRECAST	743	1011	1529	2047	2565	3083	3601	4119	
			1011	1529	2047	2565	3083	3601	4119	
			1011	1529	2047	2565	3083	3601	4119	
9'-4" (112")	PRECAST	554	752	1245	1643	2041	2439	2837	3235	
			752	1245	1643	2041	2439	2837	3235	
			752	1245	1643	2041	2439	2837	3235	
10'-4" (126")	PRECAST	475	643	1052	1433	1813	2193	2573	2953	
			643	1052	1433	1813	2193	2573	2953	
			643	1052	1433	1813	2193	2573	2953	
11'-4" (138")	PRECAST	362	582	945	1266	1587	1908	2229	2550	
			582	945	1266	1587	1908	2229	2550	
			582	945	1266	1587	1908	2229	2550	
12'-0" (144")	PRECAST	337	540	873	1254	1635	1916	2297	2678	
			540	873	1254	1635	1916	2297	2678	
			540	873	1254	1635	1916	2297	2678	
13'-4" (160")	PRECAST	296	471	755	1075	1395	1715	2035	2355	
			471	755	1075	1395	1715	2035	2355	
			471	755	1075	1395	1715	2035	2355	
14'-0" (168")	PRECAST	279	424	706	1002	1298	1594	1890	2186	
			424	706	1002	1298	1594	1890	2186	
			424	706	1002	1298	1594	1890	2186	
14'-8" (176")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
15'-4" (184")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
17'-4" (208")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
19'-4" (232")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
21'-4" (256")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
22'-0" (264")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
24'-0" (288")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	
			NR	NR	NR	NR	NR	NR	NR	

SAFE UPLIFT LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

		SAFE LOAD - POUNDS PER LINEAR FOOT															
LENGTH	TYPE	8F8-1T		8F12-1T		8F16-1T		8F20-1T		8F24-1T		8F28-1T		8F32-1T			
		8F8-2T	8F12-2T	8F16-2T	8F20-2T	8F24-2T	8F28-2T	8F32-2T	8F32-2T	8F32-2T	8F32-2T	8F32-2T	8F32-2T	8F32-2T	8F32-2T	8F32-2T	
2'-0" (34")	PRECAST	1972	3173	4460	5747	7034	8321	9608									
		1972	3173	4460	5747	7034	8321	9608									
3'-6" (42")	PRECAST	1569	2524	3547	4569	5591	6613	7636									
		1569	2524	3547	4569	5591	6613	7636									
4'-0" (48")	PRECAST	1363	2192	3079	3966	4853	5740	6627									
		1363	2192	3079	3966	4853	5740	6627									
4'-6" (54")	PRECAST	1207	1940	2724	3508	4292	5077	5861									
		1207	1940	2724	3508	4292	5077	5861									
5'-4" (64")	PRECAST	1016	1632	2290	2949	3607	4265	4924									
		1016	1632	2290	2949	3607	4265	4924									
5'-10" (70")	PRECAST	909	1482	2093	2694	3295	3897	4498									
		909	1482	2093	2694	3295	3897	4498									
6'-6" (78")	PRECAST	836	1340	1860	2419	2959	3499	4039									
		836	1340	1860	2419	2959	3499	4039									
7'-6" (90")	PRECAST	727	1201	1634	2102	2571	3059	3508									
		727	1168	1634	2102	2571	3059	3508									
9'-4" (112")	PRECAST	591	981	1329	1705	2094	2413	2694									
		591	851	1329	1705	2094	2413	2694									
10'-6" (126")	PRECAST	530	552	914	1185	1458	1727	1907									
		530	686	1184	1526	1865	2206	2544									
11'-4" (136")	PRECAST	474	485	798	1024	1272	1510	1749									
		494	599	1026	1304	1614	1924	2266									
12'-0" (144")	PRECAST	470	461	721	923	1151	1390	1582									
		470	543	929	1184	1464	1749	2247									
13'-4" (160")	PRECAST	418	418	573	606	783	962	1141	1321								
		428	455	770	815	1144	1478	1983									
14'-0" (168")	PRECAST	384	384	546	559	715	867	1052	1218								
		400	420	574	583	744	884	1054	1227								
14'-6" (176")	PRESTRESSED	230	230	323	319	401	418	523	539	619	638	719	739	819	839	919	
		246	390	565	668	1234	1248	1615	1874								
15'-4" (184")	PRESTRESSED	224	302	485	608	827	1027	1249	1499	1699	1959	2219	2479	2739	3000	3260	
		230	364	609	696	1224	1284	1924	1901								
15'-10" (190")	PRESTRESSED	187	255	404	520	727	937	1147	1357	1567	1777	1987	2197	2407	2617	2827	
		192	302	503	603	1043	1103	1743	1703	2383	2443	3083	3143	3783	3843	4483	
16'-2" (232")	PRESTRESSED	186	222	347	440	600	746	892	1038	1184	1330	1476	1622	1768	1914	2060	
		166	261	426	516	816	931	1087	1225								
21'-4" (256")	PRESTRESSED	142	198	306	381	583	680	881	961	1162	1242	1443	1523	1724	1804	2005	
		142	230	389	531	713	877	901	1046								
22'-0" (264")	PRESTRESSED	137	192	299	378	561	681	863	953	1135	1215	1397	1477	1659	1739	1921	
		137	224	389	531	713	877	901	1046								
24'-0" (288")	PRESTRESSED	124	175	267	341	416	500	619	697	816	894	1013	1091	1210	1288	1407	
		124	200	316	455	610	707	756	875								