



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

F.E.C.P. Corporation - Cast-Crete Division
P.O. Box 24567
Tampa ,FL 33623

Your application for Notice of Acceptance (NOA) of:

"Cast-Crete" Precast and Prestressed Concrete Lintels

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0209.03
EXPIRES: 05/21/2006

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 04/05/2001

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This renews the Notice of Acceptance No. 96-0613.01, which was issued on May 21, 1998. It approves a Precast and Prestressed Concrete Lintels, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the load requirements, as determined by SFBC Chapter 23, do not exceed the Design Load Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

This Precast and Prestressed Concrete Lintels and its components shall be constructed in strict compliance with the following documents: Drawing No. FD8, titled "Cast-Crete 8" Lintel Fabrication Details", sheet 1 of 1, prepared by Craig Parrino, P.E., dated June 7, 1996, revision #1 dated November 8, 1996, and Drawing No. LT8, titled "Cast-Crete 8" Lintel Safe Load Tables", sheet 1 of 1, prepared by Craig Parrino, P.E., dated June 7, 1996, revision #4 dated April 28, 1998, both bearing the Miami-Dade County Product Control Approval and Renewal stamps with the Notice of Acceptance numbers and approval dates by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

All permanent set components must be protected against corrosion, contamination and damage at all times.

4. INSTALLATION

This Precast and Prestressed Concrete Lintels and its components shall be installed in strict compliance with the approved drawings.

5. LABELING

Each lintel shall bear a permanent label with the manufacturer's name or logo and the Miami-Dade County logo.

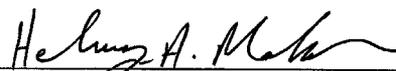
6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Duplicate copies of the approved drawings, as indicated in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.



Helmy A. Makar, P.E. - Product Control Examiner
Product Control Division

F.E.C.P. Corp. - Cast-Crete Division

ACCEPTANCE NO. : 01-0209.03

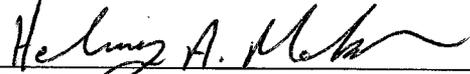
APPROVED : 04/05/2001

EXPIRES : 05/21/2006

NOTICE OF ACCEPTANCE : STANDARD CONDITIONS

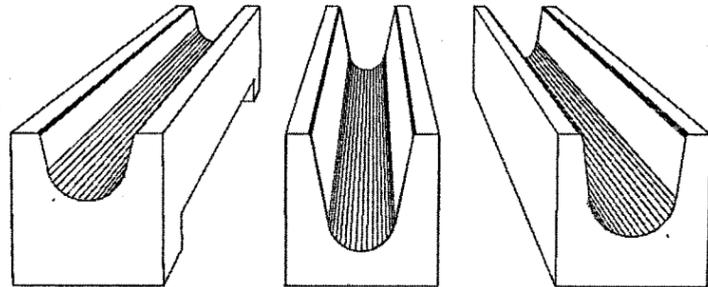
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test-supporting data, engineering documents, is no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process;
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance number preceded by the words Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Acceptance consists of pages 1, 2, and this last page 3.

END OF THIS ACCEPTANCE

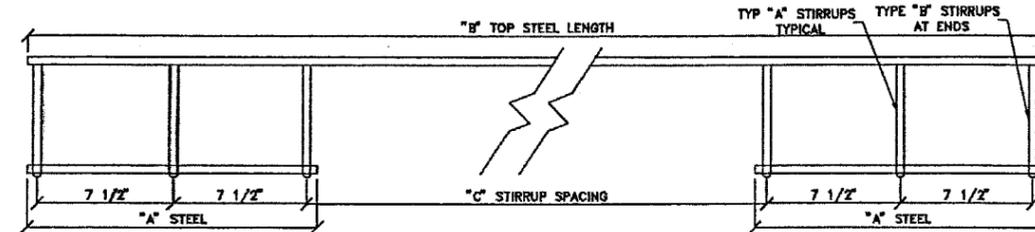
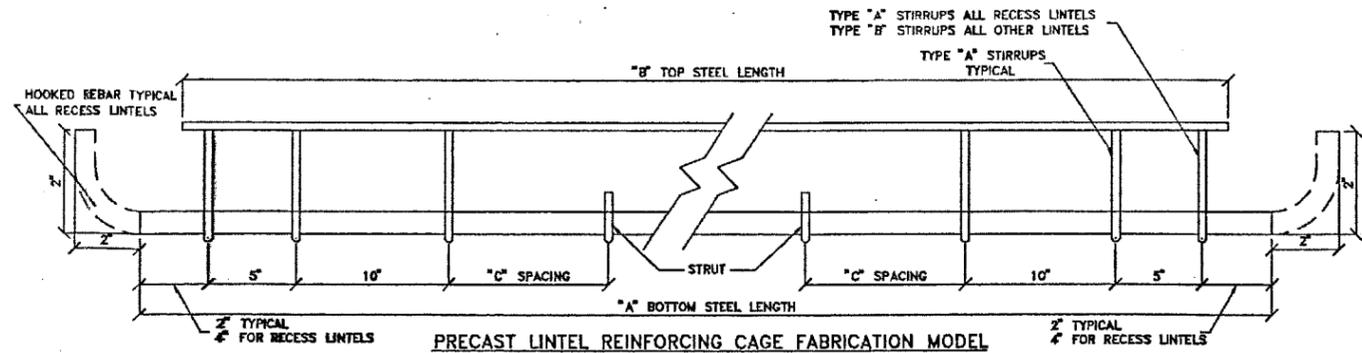


Helmy A. Makar, P.E. - Product Control Examiner
Product Control Division

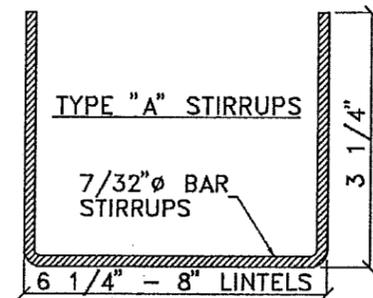
CAST-CRETE® HIGH STRENGTH PRECAST AND PRESTRESSED CONCRETE LINTELS



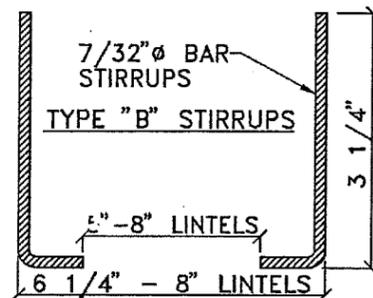
8" PRECAST W/ 2" RECESS DOOR U-LINTEL 8" PRECAST U-LINTEL 8" PRESTRESSED U-LINTEL



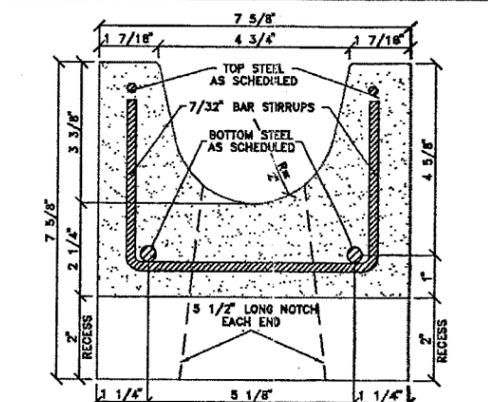
PRESTRESSED LINTEL REINFORCING CAGE FABRICATION MODEL



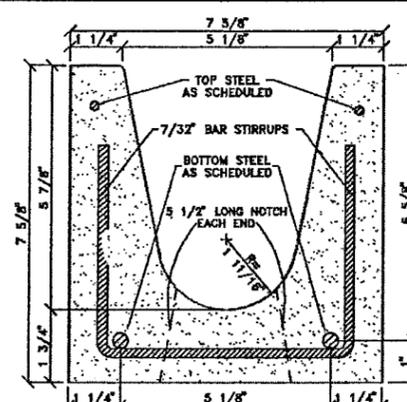
STIRRUP DETAILS
SCALE: N.T.S.



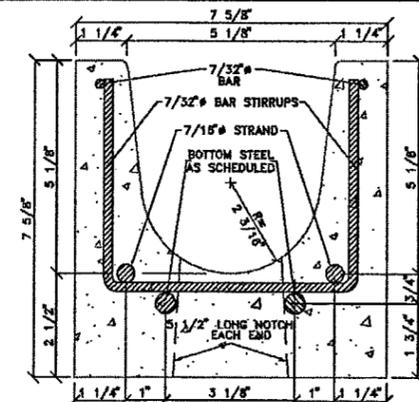
STIRRUP DETAILS
SCALE: N.T.S.



8" PRECAST W/ 2" RECESS DOOR U-LINTEL
SCALE: N.T.S.



8" PRECAST U-LINTEL
SCALE: N.T.S.



8" PRESTRESSED U-LINTEL
SCALE: N.T.S.

8" PRESTRESSED U-LINTEL DATA TABLE

LINTEL SIZE	VOLUME CY	WEIGHT LBS	A * STEEL		B * TOP STEEL		C * SPACING	NO. OF STIRRUPS
			TYPE	LENGTH	TYPE	LENGTH		
17'-4"	0.158	639	7/32 BAR	1'-3"	7/32 BAR	17'-2"	4 @ 3'-8"	9
19'-4"	0.176	713	7/32 BAR	1'-3"	7/32 BAR	19'-2"	4 @ 4'-2"	9
21'-4"	0.194	787	7/32 BAR	1'-3"	7/32 BAR	21'-2"	5 @ 3'-8 3/4"	10
			#4 REBAR @ MIDSPAN	15'-0"				
22'-0"	0.200	811	7/32 BAR	1'-3"	7/32 BAR	21'-10"	5 @ 3'-10 3/8"	10
			#4 REBAR @ MIDSPAN	16'-0"				
24'-0"	0.219	885	7/32 BAR	1'-3"	7/32 BAR	23'-10"	5 @ 4'-3 1/8"	10
			#4 REBAR @ MIDSPAN	18'-0"				

8" PRECAST U-LINTEL DATA TABLE

LINTEL SIZE	VOLUME CY	WEIGHT LBS	A * BOTTOM STEEL		B * TOP STEEL		C * SPACING	NO. OF STIRRUPS
			TYPE	LENGTH	TYPE	LENGTH		
2'-10"	0.026	102	#3 REBAR	2'-9"	7/32 BAR	2'-6"	N/A	4
3'-6"	0.032	126	#3 REBAR	3'-5"	7/32 BAR	3'-2"	N/A	4
4'-0"	0.037	144	#3 REBAR	3'-11"	7/32 BAR	3'-8"	N/A	4
4'-6"	0.041	162	#3 REBAR	4'-5"	7/32 BAR	4'-2"	N/A	4
4'-8"	0.043	168	#3 REBAR	4'-7"	7/32 BAR	4'-4"	N/A	6
5'-4"	0.049	192	#3 REBAR	5'-3"	7/32 BAR	5'-0"	N/A	6
5'-10"	0.054	210	#3 REBAR	5'-9"	7/32 BAR	5'-6"	N/A	6
6'-6"	0.060	234	#4 REBAR	6'-5"	7/32 BAR	6'-2"	N/A	6
7'-6"	0.069	270	#4 REBAR	7'-5"	7/32 BAR	7'-2"	N/A	6
9'-4"	0.086	336	#4 REBAR	9'-3"	#3 REBAR	9'-0"	2'-0"	8
10'-6"	0.096	378	#4 REBAR	10'-5"	#3 REBAR	10'-2"	2'-0"	8
11'-4"	0.104	408	#5 REBAR	11'-3"	#3 REBAR	11'-0"	3'-0"	8
12'-0"	0.110	432	#5 REBAR	11'-11"	#3 REBAR	11'-8"	3'-0"	8
12'-6"	0.110	450	#5 REBAR	12'-5"	#3 REBAR	12'-2"	3'-0"	8
13'-4"	0.122	480	#5 REBAR	13'-3"	#3 REBAR	13'-0"	3'-0"	8
14'-0"	0.129	504	#5 REBAR	13'-11"	#3 REBAR	13'-8"	3'-0"	8

8" PRECAST W/ 2" RECESS DOOR U-LINTEL DATA TABLE

LINTEL SIZE	OVERALL LENGTH	RECESS LENGTH	VOLUME CY	WEIGHT LBS	A * BOTTOM STEEL		B * TOP STEEL		C * SPACING	NO. OF STIRRUPS
					TYPE	LENGTH	TYPE	LENGTH		
2'-8"	4'-4"	3'-0"	0.039	152	#3 REBAR	3'-10" PLUS HOOK	7/32 BAR	3'-8"	N/A	4
3'-0"	4'-6"	3'-4"	0.040	156	#3 REBAR	3'-10" PLUS HOOK	7/32 BAR	3'-10"	N/A	4
4'-0"	5'-8"	4'-4"	0.050	195	#3 REBAR	4'-2" PLUS HOOK	7/32 BAR	5'-0"	N/A	6
4'-4"	5'-10"	4'-8"	0.052	200	#3 REBAR	4'-2" PLUS HOOK	7/32 BAR	5'-2"	N/A	6
5'-0"	6'-8"	5'-4"	0.058	225	#4 REBAR	4'-2" PLUS HOOK	#3 REBAR	6'-0"	N/A	6
6'-0"	7'-8"	6'-4"	0.063	248	#4 REBAR	4'-2" PLUS HOOK	#3 REBAR	6'-10"	N/A	6
8'-0"	9'-8"	8'-4"	0.081	318	#4 REBAR	4'-2" PLUS HOOK	#3 REBAR	9'-0"	2'-0"	8

GENERAL NOTES:

- REINFORCING STEEL: 7/32 BAR ASTM A510; #3, #4, 4. STRIPPING STRENGTH: PRESTRESSED LINTELS = 3500 PSI.
- CONCRETE STRENGTHS: $f'_c = 6000$ PSI FOR 8" PRESTRESSED LINTELS; $f'_c = 3500$ PSI FOR ALL PRECAST 8 INCH LINTELS.
- INITIAL PRESTRESS FORCE = $0.70 \times f_{pu}$.
- NOTE: THE TOTAL NUMBER OF STIRRUPS REQUIRED IS COUNTED STARTING FROM EACH END OF THE REINFORCING CAGE; FOR EXAMPLE - NO. OF STIRRUPS = 4, THEN THE REINFORCING CAGE MODEL SHOWS 2 STIRRUPS FROM EACH END.

PRODUCT RENEWED

ACCEPTANCE No. 01-0209-03 APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 EXPIRATION DATE 05/21/2006 DATE MAY 21 1998
 By *Helmut A. Mahr* BY *Helmut A. Mahr*
 PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE

PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE No. 96-0613.01

Craig Parrino
4-29-98

THIS PROPRIETARY INFORMATION IS PROVIDED FOR PRODUCT APPROVAL. IT IS PROTECTED BY COPYRIGHT LAWS AND CANNOT BE REPRODUCED OR DISTRIBUTED WITHOUT THE PRIOR WRITTEN CONSENT OF FECP CORPORATION.

NO. BY	REVISION	DATE
CP	GENERAL REVISION NUMBER ONE	11/08/96



FECP
 FLORIDA ENGINEERED CONSTRUCTION PRODUCTS CORP.
 CAST-CRETE DIVISION
 COUNTY ROAD 579, ONE MILE NORTH OF I-4
 P.O. BOX 24567, TAMPA, FLORIDA 33623
 PHONE: 813-621-4641 FAX: 813-620-3802

TITLE: CAST-CRETE 8" LINTEL FABRICATION DETAILS

FILE NAME: DBSUB1.DWG DRAWN BY: JOHN HOY. SCALE: NOT TO SCALE
 DATE: 06/07/96 CHECKED BY: CRAIG PARRINO, P.E. - REG. NO. 44756 DRAWING No. FDB SHEET 1

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

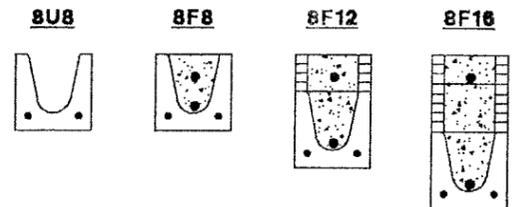
LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT			
		8U8	8F8-1B	8F12-1B	8F16-1B
2'-10" (34")	PRECAST	2302	3166	4473	6039
3'-6" (42")	PRECAST	2302	3166	4473	6039
4'-0" (48")	PRECAST	2029	2646	4473	6039
4'-6" (54")	PRECAST	1651	2170	4027	6039
5'-4" (64")	PRECAST	1184	1665	2889	5057
5'-10" (70")	PRECAST	972	1459	2464	4144
6'-6" (78")	PRECAST	937	1255	2101	3396
7'-6" (90")	PRECAST	767	1029	1675	2610
9'-4" (112")	PRECAST	573	768	1212	1818
10'-6" (126")	PRECAST	456	658	1025	1514
11'-4" (136")	PRECAST	362	598	935	1365
12'-0" (144")	PRECAST	337	555	864	1254
13'-4" (160")	PRECAST	296	485	748	1076
14'-0" (168")	PRECAST	279	455	700	1003
17'-4" (208")	PRESTRESSED	N.R.	310 ^(b)	530	950
19'-4" (232")	PRESTRESSED	N.R.	240 ^(b)	400	750
21'-4" (256")	PRESTRESSED	N.R.	183 ^(b)	330	610
22'-0" (264")	PRESTRESSED	N.R.	160 ^(b)	300	570
24'-0" (288")	PRESTRESSED	N.R.	130 ^(b)	240	470

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

LENGTH	TYPE	SAFE LOAD P.L.F.	
		8U8	8F8
2'-10" (34")	PRECAST	2021	2021
3'-6" (42")	PRECAST	1257	1257
4'-0" (48")	PRECAST	938	938
4'-6" (54")	PRECAST	727	727
5'-4" (64")	PRECAST	505	505
5'-10" (70")	PRECAST	418	418
6'-6" (78")	PRECAST	707	887
7'-6" (90")	PRECAST	591	657
9'-4" (112")	PRECAST	454	630
10'-6" (126")	PRECAST	396	493
11'-4" (136")	PRECAST	260	556
12'-0" (144")	PRECAST	243	494
13'-4" (160")	PRECAST	215	398
14'-0" (168")	PRECAST	204	360
17'-4" (208")	PRESTRESSED	N.R.	255
19'-4" (232")	PRESTRESSED	N.R.	204
21'-4" (256")	PRESTRESSED	N.R.	172
22'-0" (264")	PRESTRESSED	N.R.	161
24'-0" (288")	PRESTRESSED	N.R.	135

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

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT			
		8F8-1T	8F12-1T	8F16-1T	8F16-2T
2'-10" (34")	PRECAST	2727	2878	4101	2727
3'-6" (42")	PRECAST	2165	2289	3260	2165
4'-0" (48")	PRECAST	1878	1989	2532	1878
4'-6" (54")	PRECAST	1660	1762	2507	1660
5'-4" (64")	PRECAST	1393	1484	2110	1393
5'-10" (70")	PRECAST	1272	1357	1930	1272
6'-6" (78")	PRECAST	1141	1200	1733	1141
7'-6" (90")	PRECAST	959	912	1475	990
9'-4" (112")	PRECAST	801	612	980	801
10'-6" (126")	PRECAST	716	498	793	716
11'-4" (136")	PRECAST	666	439	696	666
12'-0" (144")	PRECAST	607	400	631	631
13'-4" (160")	PRECAST	500	340	532	573
14'-0" (168")	PRECAST	458	316	493	548
17'-4" (208")	PRESTRESSED	188	236	361	188
19'-4" (232")	PRESTRESSED	165	207	313	165
21'-4" (256")	PRESTRESSED	145	186	278	142
22'-0" (264")	PRESTRESSED	140	180	268	137
24'-0" (288")	PRESTRESSED	127	165	244	124



SAFE GRAVITY LOADS FOR 8" PRECAST W/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT			
		8RU6	8RF6-1B	8RF10-1B	8RF14-1B
4'-4" (52")	PRECAST	1489	1827	3412	4982
4'-6" (54")	PRECAST	1357	1702	3412	4982
5'-8" (68")	PRECAST	785	1153	2162	4074
5'-10" (70")	PRECAST	735	1103	2051	3811
6'-8" (80")	PRECAST	822	907	1677	2933
7'-6" (90")	PRECAST	665	764	1377	2329
9'-8" (116")	PRECAST	371	535	928	1497

SAFE LATERAL LOADS FOR 8" PRECAST W/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	SAFE LOAD P.L.F.	
		8RU6	8RF6
4'-4" (52")	PRECAST	932	932
4'-6" (54")	PRECAST	853	853
5'-8" (68")	PRECAST	501	501
5'-10" (70")	PRECAST	469	469
6'-8" (80")	PRECAST	830	1100
7'-6" (90")	PRECAST	710	941
9'-8" (116")	PRECAST	516	614

SAFE UPLIFT LOADS FOR 8" PRECAST W/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT			
		8RF6-1T	8RF10-1T	8RF14-1T	8RF14-2T
4'-4" (52")	PRECAST	1244	1573	2413	1244
4'-6" (54")	PRECAST	1192	1507	2311	1192
5'-8" (68")	PRECAST	924	1172	1795	924
5'-10" (70")	PRECAST	896	1138	1742	896
6'-8" (80")	PRECAST	778	882	1513	778
7'-6" (90")	PRECAST	688	697	1325	688
9'-8" (116")	PRECAST	533	433	808	533

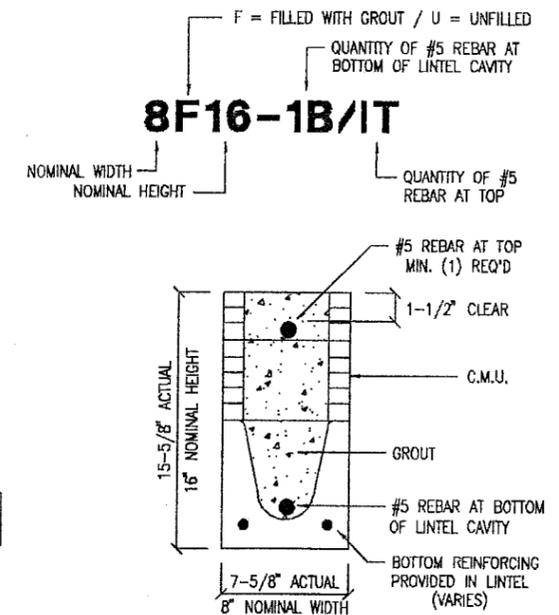
PRODUCT RENEWED

ACCEPTANCE No. 01-0209-03

EXPIRATION DATE 05/21/2006

By *Helmy A. Maher*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

TYPE DESIGNATION



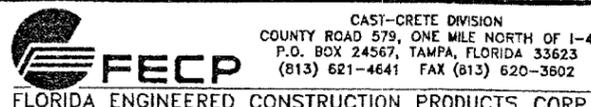
GENERAL NOTES

- Materials:
 - f_c precast lintel = 3500 psi
 - f_c prestressed lintel = 6000 psi
 - f_c grout = 3000 psi with maximum 3/8 inch aggregate
 - concrete masonry units (CMU) per ASTM C90 with 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
- All safe load tables based on minimum 4 inch bearing.
 - Exception: Safe loads for lintel type 8U8 and 8RU6 must be reduced 20% if bearing length is less than 6-1/2 inches. Safe load for recessed lintels based on 8" bearing.
- Provide full mortar bed and head joints.
-
- All lintels meet or exceed L/360 deflection.
 - Exception: Prestress lintel type 8F8 meets or exceeds L/180 deflection. Use is limited to conditions meeting the South Florida Building Code section 2303.3(e)
- Shore filled lintels as required.
- One #7 rebar may be substituted for two #5 rebars.
- Installation/attachment of lintel must comply with the architectural and/or structural documents.
- The designer may evaluate concentrated loads by calculating the maximum resisting moment and shear at a distance d-away from face of support from the safe load tables.
- N.R. = Not Rated
- All filled lintels require minimum 1-#5 bottom rebar in lintel cavity.
- Lintels are manufactured with 5-1/2" long notches at the ends to accommodate vertical cell reinforcing and grouting.
- The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in accordance with ASTM C-926 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:

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

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE MAY 21 1998
 BY *Helmy A. Maher*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE No. 96-0613.01

NO.	BY	REVISION	DATE
1	CP	GENERAL REVISION NUMBER ONE	11/08/96
2	CP	RECESS TYPE DESIGNATION	12/30/96
3	CP	8U8 11'-4" THRU 14'-0"	07/18/97
4	CP	GENERAL REVISIONS	04/28/98



TITLE: **CAST-CRETE 8" LINTEL SAFE LOAD TABLES**

FILE NAME: DBSUB2.DWG	DRAWN BY: JON GARAFALO	SCALE: N.T.S.
DATE: 06/07/96	CHECKED BY: CRAIG PARRINO, P.E. - REG. NO. 44756	DRAWING NO. LTB SHEET 1