



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
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MIAMI, FLORIDA 33130-1563
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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.: 01-0209.04
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. 97-0623.06, 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. L8, titled "Cast-Crete 8" Lintel Safe Load Tables", sheet 1 of 1, prepared by Craig Parrino, P.E., dated June 19, 1997, revision #2 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.

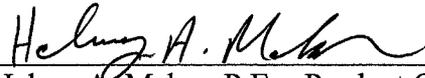
6. BUILDING PERMIT REQUIREMENTS

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

NOTICE OF ACCEPTANCE : STANDARD CONDITIONS

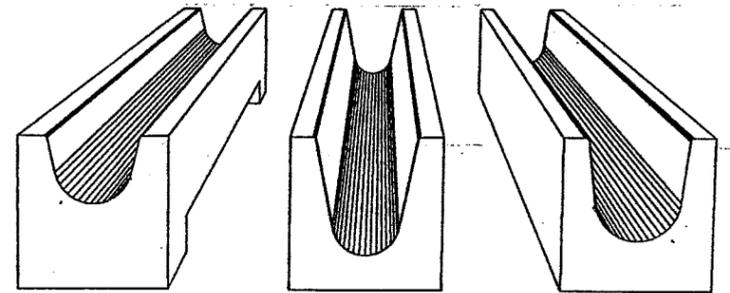
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test-supporting data, engineering documents, is no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with 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

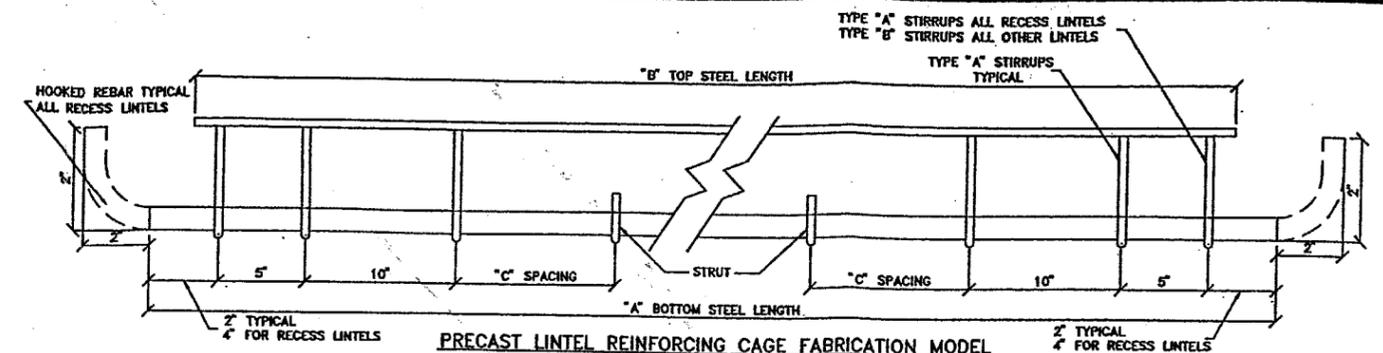


Helmy A. Makar, P.E. - Product Control Examiner
Product Control Division

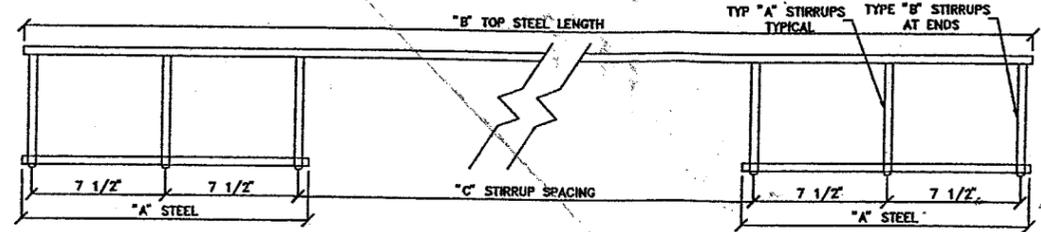
CAST-CRETE® HIGH STRENGTH PRECAST AND PRESTRESSED CONCRETE LINTELS



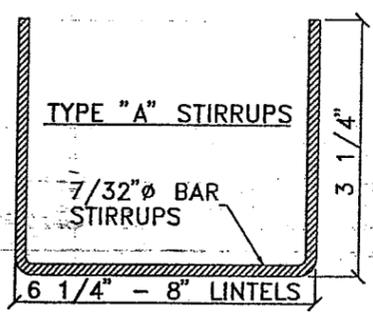
8" PRECAST W/ 2" RECESS DOOR U-LINTEL 8" PRECAST U-LINTEL 8" PRESTRESSED U-LINTEL



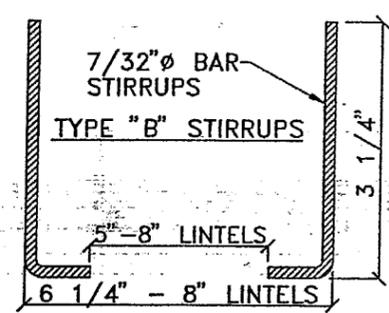
PRECAST LINTEL REINFORCING CAGE FABRICATION MODEL



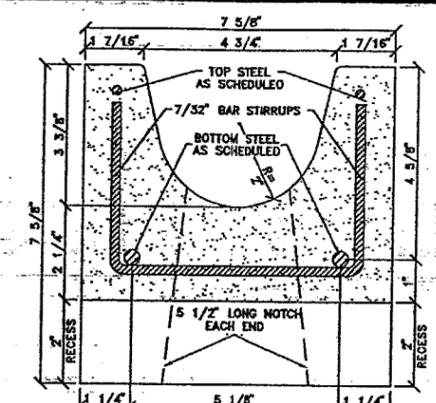
PRESTRESSED LINTEL REINFORCING CAGE FABRICATION MODEL



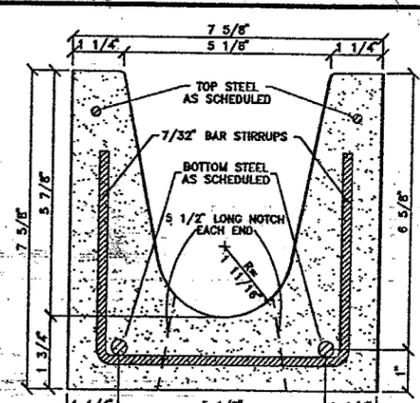
TYPE "A" STIRRUPS
7/32" Ø BAR STIRRUPS
SCALE: N.T.S.



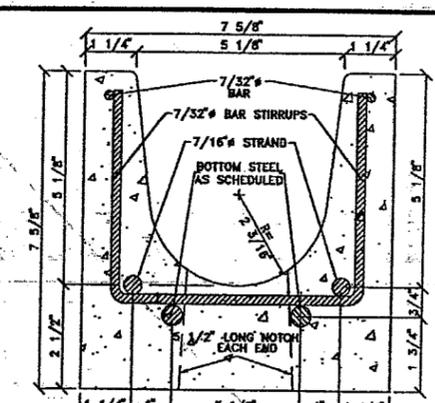
7/32" Ø BAR STIRRUPS
TYPE "B" STIRRUPS
5" - 8" LINTELS
SCALE: N.T.S.



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 TYPE	"A" STEEL LENGTH	"B" TOP STEEL TYPE	"B" TOP STEEL LENGTH	"C" SPACING	NO. OF STIRRUPS
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
22'-0"	0.200	811	7/32 BAR	1'-3"	7/32 BAR	21'-10"	5 @ 3'-10 3/8"	10
24'-0"	0.219	885	7/32 BAR	1'-3"	7/32 BAR	23'-10"	5 @ 4'-3 1/8"	10

8" PRECAST U-LINTEL DATA TABLE

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

GENERAL NOTES:

- REINFORCING STEEL: 7/32 BAR ASTM A510; #3, #4, 4. STRIPPING STRENGTH: PRESTRESSED AND #5 REBAR GRADE 60 ASTM A615; 7/16 INCH DIAMETER 270KSI LOW-RELAXATION PRESTRESSING STRAND ASTM A416.
- 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 x fpu.
- STIRRUP STRENGTH: PRESTRESSED LINTELS = 3500 PSI.
- 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. 01-0209.04 APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 EXPIRATION DATE 05/21/2006 DATE MAY 21 1998
 By Helmy A. Maher BY Helmy A. Maher 6-19-97
 PRODUCT CONTROL DIVISION PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 97-0623.06

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
1	CP	GENERAL REVISION NUMBER ONE	11/08/96



CAST-CRETE DIVISION
 COUNTY ROAD 579, ONE MILE NORTH OF I-4
 P.O. BOX 24567, TAMPA, FLORIDA 33623
 PHONE: 813-621-4641 FAX: 813-620-3602

FECP
 FLORIDA ENGINEERED CONSTRUCTION PRODUCTS CORP.

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. FD8	SHEET 1

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

CAST-CRETE		SAFE LOAD - POUNDS PER LINEAR FOOT
LENGTH	TYPE	8U8
2'-10" (34")	PRECAST	2302
3'-6" (42")	PRECAST	2302
4'-0" (48")	PRECAST	2029
4'-6" (54")	PRECAST	1651
5'-4" (64")	PRECAST	1184
5'-10" (70")	PRECAST	972
6'-6" (78")	PRECAST	937
7'-6" (90")	PRECAST	767
9'-4" (112")	PRECAST	573
10'-6" (126")	PRECAST	456
11'-4" (136")	PRECAST	362
12'-0" (144")	PRECAST	337
13'-4" (160")	PRECAST	296
14'-0" (168")	PRECAST	279
17'-4" (208")	PRESTRESSED	N.R.
19'-4" (232")	PRESTRESSED	N.R.
21'-4" (256")	PRESTRESSED	N.R.
22'-0" (264")	PRESTRESSED	N.R.
24'-0" (288")	PRESTRESSED	N.R.

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

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

8U8



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

CAST-CRETE		SAFE LOAD - POUNDS PER LINEAR FOOT
LENGTH	TYPE	8RU6
4'-4" (52")	PRECAST	1489
4'-6" (54")	PRECAST	1357
5'-8" (68")	PRECAST	785
5'-10" (70")	PRECAST	735
6'-8" (80")	PRECAST	822
7'-6" (90")	PRECAST	665
9'-8" (116")	PRECAST	371

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

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

GENERAL NOTES

- Materials:
 - Pc precast lintel = 3500 psi
 - Pc prestressed lintel = 6000 psi
 - Pc 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 8-1/2 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.
-
- 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. To be used only as a component of a composite beam.
-
- 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:

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

PRODUCT RENEWED

ACCEPTANCE No. 01-0209.04

EXPIRATION DATE 05/21/2006

By *Helmut A. Mahr*

PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

Craig Parrino
4-28-98

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE

DATE MAY 21 1998

BY *Helmut A. Mahr*

PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

ACCEPTANCE No. 97-0623.06

NO.	BY	REVISION	DATE
1	CP	BUB 11'-4" THRU 14'-0"	07/18/97
2	CP	GENERAL REVISIONS	04/28/98



CAST-CRETE DIVISION
COUNTY ROAD 579, ONE MILE NORTH OF I-4
P.O. BOX 24567, TAMPA, FLORIDA 33623
(813) 621-4641 FAX (813) 620-3802

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

FILE NAME: DBSUB3.DWG	DRAWN BY: JOHN HOY	SCALE: N.T.S.
DATE: 06/19/97	CHECKED BY: CRAIG PARRINO, P.E. - REG. NO. 44756	DRAWING NO. LB SHEET 1