By: rhs
Date: 07/2008
chk: sws

Powers Steel Loads Table PSbox8 (7-5/8")

(pounds per linear foot)
ALL LOADS ARE SUPERIMPOSED

3000 psi grout
(18 ga. < 18'0" span)
(16 ga. >= 18'0" span)

Lintel Length	Clear Span	Reinforcement	6" x 8" Gravity	6" x 8" Lateral	6" x 8" Uplift	8" x 8" Gravity	8" x 8" Lateral	8" x 8" Uplift	8" x 10" Gravity	8" x 10" Lateral	8" x 10" Uplift	8" x 12" Gravity	8" x 12" Lateral	8" x 12" Uplift	8" x 14" Gravity	8" x 14" Lateral	8" x 14" Uplift	8" x 16" Gravity	8" x 16" Lateral	8" x 16" Uplift	Clear Span	Lintel Length
2'-6"	1'0"	1#5 Top		4544	5963	6375	7910	8800	8866	11200	9500	11300	9800	11600	10100	12000	10400	12300	10700	12600	1'0"	2'-6"
		1#5 Top & Bot		4544	5963	6375	7910	8800	8866	11200	9500	11300	9800	11600	10100	12000	10400	12300	10700	12600		
3'-0"	2'-0"	1#5 Top		3166	4190	3721	5495	4975	6177	8173	6800	8900	7500	9800	8100	10600	8800	11500	9500	12400	2'-0"	3'-0"
		1#5 Top & Bot		3166	4190	3721	5495	4975	6177	8173	6800	8900	7500	9800	8100	10600	8800	11500	9500	12400		
4'-0"	2'-6"	1#5 Top		2356	3370	2923	4473	3982	5031	6900	5700	7500	6400	8200	7100	9000	7800	9800	8500	10600	2'-6"	4'-0"
		1#5 Top & Bot		2356	3370	2923	4473	3982	5031	6900	5700	7500	6400	8200	7100	9000	7800	9800	8500	10600		
4'-6"	3'-0"	1#5 Top		1762	2844	2546	3776	2747	4248	5821	4700	6300	5400	6900	6000	7600	6600	8200	7200	8900	3'-0"	4'-6"
		1#5 Top & Bot		1762	2844	2546	3776	2747	4248	5821	4700	6300	5400	6900	6000	7600	6600	8200	7200	8900		
5'-0"	4'-0"	1#5 Top		1404	2269	2016	3000	2198	3374	4620	3700	5000	4300	5500	4800	6000	5200	6500	5700	7000	4'-0"	5'-0"
		1#5 Top & Bot		1404	2269	2016	3000	2198	3374	4620	3700	5000	4300	5500	4800	6000	5200	6500	5700	7000		
5'-6"	4'-6"	1#5 Top		1151	1872	1651	2472	1800	2803	3800	3000	4100	3500	4500	3900	4900	4300	5300	4700	5800	4'-6"	5'-6"
		1#5 Top & Bot		1151	1872	1651	2472	1800	2803	3800	3000	4100	3500	4500	3900	4900	4300	5300	4700	5800		
6'-0"	5'-0"	1#5 Top		959	1557	1350	2334	1684	2623	1909	2600	2900	3400	3600	3300	4300	3200	4900	3600	5400	5'-0"	6'-0"
		1#5 Top & Bot		959	1557	1350	2334	1684	2623	1909	2600	2900	3400	3600	3300	4300	3200	4900	3600	5400		
6'-6"	5'-6"	1#5 Top		806	1278	1207	1964	1416	2210	1616	2168	2400	2900	3000	2800	3600	2700	4100	3000	4500	5'-6"	6'-6"
		1#5 Top & Bot		806	1278	1207	1964	1416	2210	1616	2168	2400	2900	3000	2800	3600	2700	4100	3000	4500		
7'-0"	6'-0"	1#5 Top		686	1078	1027	1664	1211	1874	1378	2173	2000	2500	2500	2400	3000	2300	3500	2500	3800	6'-0"	7'-0"
		1#5 Top & Bot		686	1078	1027	1664	1211	1874	1378	2173	2000	2500	2500	2400	3000	2300	3500	2500	3800		
8'-0"	7'-0"	1#5 Top	1170	874	1306	1162	1737	1043	1564	1164	1747	1400	2100	1700	2000	2000	1900	2300	2000	2600	7'-0"	8'-0"
		1#5 Top & Bot	1170	874	1306	1162	1737	1043	1564	1164	1747	1400	2100	1700	2000	2000	1900	2300	2000	2600		
9'-0"	8'-0"	1#5 Top	881	657	980	875	1308	785	1178	876	1315	1000	1600	1300	1500	1500	1400	1700	1500	1900	8'-0"	9'-0"
		1#5 Top & Bot	881	657	980	875	1308	785	1178	876	1315	1000	1600	1300	1500	1500	1400	1700	1500	1900		
10'-0"	9'-0"	1#5 Top	707	520	784	702	1034	628	925	701	1033	800	1300	1000	1200	1200	1100	1400	1200	1500	9'-0"	10'-0"
		1#5 Top & Bot	707	520	784	702	1034	628	925	701	1033	800	1300	1000	1200	1200	1100	1400	1200	1500		
11'-0"	10'-0"	1#5 Top	542	421	673	578	853	518	763	578	852	600	1000	800	900	900	800	1100	900	1200	10'-0"	11'-0"
		1#5 Top & Bot	542	421	673	578	853	518	763	578	852	600	1000	800	900	900	800	1100	900	1200		
12'-0"	11'-0"	1#5 Top	428	418	546	468	707	409	602	468	689	500	800	600	700	700	600	900	700	1000	11'-0"	12'-0"
		1#5 Top & Bot	428	418	546	468	707	409	602	468	689	500	800	600	700	700	600	900	700	1000		
13'-6"	12'-0"	1#5 Top	338	362	478	381	405	368	567	423	747	432	700	500	600	600	500	800	600	900	12'-0"	13'-6"
		1#5 Top & Bot	338	362	478	381	405	368	567	423	747	432	700	500	600	600	500	800	600	900		
14'-0"	12'-6"	1#5 Top	315	325	433	375	383	303	543	381	677	378	600	400	500	500	400	700	500	800	12'-6"	14'-0"
		1#5 Top & Bot	315	325	433	375	383	303	543	381	677	378	600	400	500	500	400	700	500	800		
14'-6"	13'-6"	1#5 Top	279	283	384	337	338	281	481	344	617	344	500	300	400	400	300	600	400	700	13'-6"	14'-6"
		1#5 Top & Bot	279	283	384	337	338	281	481	344	617	344	500	300	400	400	300	600	400	700		
15'-6"	14'-0"	1#5 Top	248	246	341	308	296	264	428	312	565	316	500	200	300	300	200	500	300	600	14'-0"	15'-6"
		1#5 Top & Bot	248	246	341	308	296	264	428	312	565	316	500	200	300	300	200	500	300	600		
16'-6"	15'-0"	1#5 Top	222	214	305	281	258	231	382	284	517	288	500	200	300	200	200	400	200	500	15'-0"	16'-6"
		1#5 Top & Bot	222	214	305	281	258	231	382	284	517	288	500	200	300	200	200	400	200	500		
17'-6"	16'-0"	1#5 Top	199	187	272	257	225	202	341	259	473	263	500	200	300	200	200	400	200	500	16'-0"	17'-6"
		1#5 Top & Bot	199	187	272	257	225	202	341	259	473	263	500	200	300	200	200	400	200	500		
19'-0"	17'-6"	1#5 Top	164	157	224	212	189	170	281	213	389	216	500	200	300	200	200	400	200	500	17'-6"	19'-0"
		1#5 Top & Bot	164	157	224	212	189	170	281	213	389	216	500	200	300	200	200	400	200	500		
20'-6"	19'-0"	1#5 Top	138	136	191	179	163	147	239	181	331	183	500	200	300	200	200	400	200	500	19'-0"	20'-6"
		1#5 Top & Bot	138	136	191	179	163	147	239	181	331	183	500	200	300	200	200	400	200	500		
22'-0"	20'-6"	1#5 Top	117	118	163	152	140	127	204	154	282	155	500	200	300	200	200	400	200	500	20'-6"	22'-0"
		1#5 Top & Bot	117	118	163	152	140	127	204	154	282	155	500	200	300	200	200	400	200	500		
23'-6"	22'-0"	1#5 Top	100	102	140	130	120	110	175	132	242	132	500	200	300	200	200	400	200	500	22'-0"	23'-6"
		1#5 Top & Bot	100	102	140	130	120	110	175	132	242	132	500	200	300	200	200	400	200	500		
25'-0"	23'-6"	1#5 Top	087	088	121	112	104	095	151	114	208	113	500	200	300	200	200	400	200	500	23'-6"	25'-0"
		1#5 Top & Bot	087	088	121	112	104	095	151	114	208	113	500	200	300	200	200	400	200	500		
26'-6"	25'-0"	1#5 Top	076	077	106	098	091	083	132	099	181	098	500	200	300	200	200	400	200	500	25'-0"	26'-6"
		1#5 Top & Bot	076	077	106	098	091	083	132	099	181	098	500	200	300	200	200	400	200	500		
28'-0"	26'-6"	1#5 Top	067	068	093	086	080	073	116	087	159	086	500	200	300	200	200	400	200	500	26'-6"	28'-0"
		1#5 Top & Bot	067	068	093	086	080	073	116	087	159	086	500	200	300	200	200	400	200	500		
29'-6"	28'-0"	1#5 Top	059	060	082	076	071	065	103	077	141	076	500	200	300	200	200	400	200	500	28'-0"	29'-6"
		1#5 Top & Bot	059	060	082	076	071	065	103	077	141	076	500	200	300	200	200	400	200	500		
31'-0"	29'-6"	1#5 Top	052	053	073	068	063	058	092	069	126	068	500	200	300	200	200	400	200	500	29'-6"	31'-0"
		1#5 Top & Bot	052	053	073	068	063	058	092	069	126	068	500	200	300	200	200	400	200	500		
32'-6"	31'-0"	1#5 Top	046	047	065	061	056	052	082	062	113	061	500	200	300	200	200	400	200	500	31'-0"	32'-6"
		1#5 Top & Bot	046	047	065	061	056	052	082	062	113	061	500	200	300	200	200	400	200	500		
34'-0"	32'-6"	1#5 Top	041	042	058	055	050	047	074	056	102	055	500	200	300	200	200	400	200	500	32'-6"	34'-0"
		1#5 Top & Bot	041	042	058	055	050	047	074	056	102	055	500	200	300	200	200	400	200	500		
35'-6"	34'-0"	1#5 Top	037	038	052	050	045	042	067	051	093	050	500	200	300	200	200	400	200	500	34'-0"	35'-6"
		1#5 Top & Bot	037	038	052	050	045	042	067	051	093	050	500	200	300	200	200	400	200	500		
37'-0"	35'-6"	1#5 Top	033	034	047	046	041	038	061	047	085	046	500	200	300	200	200	400	200	500	35'-6"	37'-0"
		1#5 Top & Bot	033	034	047	046	041	038	061	047	085	046	500	200	300	200	200	400	200	500		
38'-6"	37'-0"	1#5 Top	030	031	043	042	037	035	056	043	078	042	500	200	300	200	200	400	200	500	37'-0"	38'-6"
		1#5 Top & Bot	030	031	043	042	037	035	056	043	078	042	500	200	300	200	200	400	200	500		
40'-0"	38'-6"	1#5 Top	027	028	039	038	034	032	051	039	072	038	500	200	300	200	200	400	200	500	38'-6"	40'-0"
		1#5 Top & Bot	027	028	039	038	034	032	051	039	072	038	500	200	300	200	200	400	200	500		

Note: Above loads include Y3 increase for wind.
All lintels greater than 22'-0" in length will require (2)-#5 bars top or (2)-#6 bars top&bot.

NOTES:

1. PRODUCT NAME (PATENT NO. 6567209)
2. PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED (G60 MINIMUM) COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40 ksi).
3. NOTE: DEFORMATIONS DO NOT EFFECT STRUCTURAL CAPACITY.
4. FOR SPANS LESS THAN 18'-0" BOX LINTELS TO BE 18 GA. FOR SPANS GREATER THAN AND EQUAL TO 18'-0" BOX LINTELS TO BE 16 GA.
5. SHORE LINTELS AS REQUIRED TO COMPENSATE FOR DEAD LOAD DEFLECTION ON NON-CURED MASONRY GROUT. ALL LINTELS GREATER THAN 18'-0" ARE BUILT WITH 1/2" CAMBER.
6. LINTEL TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING MINIMUM 7in AS SHOWN.
7. STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND.
8. DESIGN BEARING OF POWERS STEEL LINTELS IS 8" FOR ALL LINTELS GREATER THAN 18'-0" IN SPAN OR GREATER THAN 32" IN DEPTH. ALL OTHER LINTELS REQUIRE A MINIMUM OF 4" BEARING PER THE STANDARD AND FLORIDA BUILDING CODES.
9. f'm = 1500 psi. MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N.
10. GROUT = 3,000 psi. SLUMP RANGE: 8" TO 11". ROD OR VIBRATE GROUT ADEQUATELY TO ENSURE CONSOLIDATION OF GROUT (NO AIR POCKETS). GROUT SHALL COMPLY WITH ASTM C476-83 AND BE EITHER COARSE OR FINE GROUT.
11. MORTAR: TYPE "S" OR TYPE "M" 1800 psi.
12. TOP REINFORCING OR TOP OF WALL REINFORCING, IS REQUIRED BY CODES TO PROVIDE A CONTINUOUS TIE AROUND A STRUCTURE AND TO PROVIDE FOR UPLIFT RESISTANCE AT LINTELS.
13. ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS.
14. LIMITATIONS:

THE LINTELS SHALL NOT EXCEED THE ALLOWABLE DESIGN LOADS AND SPANS SHOWN IN THIS REPORT.

THE LINTELS SHALL NOT BE USED IN A FIRE RESISTANCE RATED ASSEMBLY UNLESS A TEST REPORT DOCUMENTING FIRE RESISTANCE IS SUBMITTED TO THE BUILDING OFFICIAL.

A PROPER BARRIER IS REQUIRED WHEN USING CORROSIVE LUMBER PRODUCTS IN CONTACT WITH THE STEEL LINTELS. A PROPER BARRIER WOULD BE A POLYETHYLENE BARRIER WITH A 10 MIL THICKNESS OR TO MAINTAIN A MIN. 1/8" SPACING BETWEEN THE CORROSIVE LUMBER AND STEEL LINTEL.

NOT FOR USE IN THE HVHZ IN MIAMI OR BROWARD COUNTIES AT THIS TIME. MIAMI DADE COMPLIANCE IS BEING SOUGHT.

15. ALLOWABLE LOADS SHOWN IN THE TABLES FOR UPLIFT AND LATERAL LOAD CAPACITY INCLUDE A 1/3 INCREASE FOR WIND OR SEISMIC LOADING WITH NO FURTHER INCREASES ALLOWED. IF SEISMIC LOADING WITH NO FURTHER INCREASES ALLOWED. IF COMBINED LOADING CONDITIONS ARE APPLIED TO THE LINTELS FOR SIMULTANEOUS LOADING DIRECTIONS, THE ALLOWABLE LOADS SHOWN IN THE TABLES MUST BE ADJUSTED USING A UNITY EQUATION.
16. ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 4/2008 AND CLEARLY INDICATE SUPERIMPOSED LOADS.
17. #5 REINFORCING BAR (GRADE 40) IS TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES THE BOTTOM OF LINTEL AS SHOWN ON LOAD TABLES. TOP HORIZONTAL REINFORCEMENT IS TO BE A CONTINUOUS TIE AS NOTED IN NOTE #9. IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL REINFORCEMENT IS TO EXTEND 2'-0" PAST INSIDE OF JAMBS.

MANUFACTURER:

POWERS STEEL
4118 E. ELWOOD PHOENIX, AZ 85040
PH# 602-437-1160 FAX# 602-437-5409

TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING:

- FLORIDA BUILDING CODE - 2007
- NASPEC / AISI LIGHT GAGE COLD FORMED STEEL DESIGN - 2001 (W/ 2004 SUPPLEMENT)
- ACI 530-05/ASCE 5-05/TMS 402-05

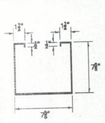
TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONSIDERS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES.

STRUCTURAL ENGINEER FOR THESE LINTELS IS:

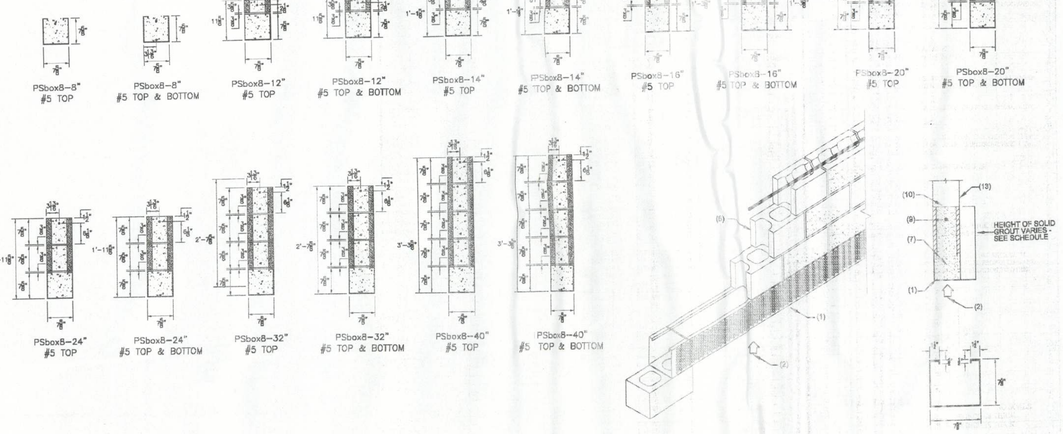
S.E. CONSULTANTS, INC.
5800 E. THOMAS RD. SUITE 104
SCOTTSDALE, AZ 85251
PHONE No. (480) 946-2010
FAX (480) 946-1969

IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.

INSTALLATION:
POWERS LINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTIONS PRACTICES, SET TO PROPER LINE AND LEVEL, PLUMB AND TRUE, AND IN CORRECT RELATION TO OTHER WORK.



PSbox8 STEEL LINTELS
NOTE: NO SCALE
16 GAGE IS .060 INCHES THICK.
18 GAGE IS .048 INCHES THICK.



TYPICAL POWER BOX LINTEL SECTION

By: rhs
Date: 07/2008
chk: sws

Powers Steel Loads Table PSbox8 (5-5/8")
(pounds per linear foot)
ALL LOADS ARE SUPERIMPOSED

3000 psi grout
(18 ga. < 18'0" span)
(16 ga. >= 18'0" span)

NOTES:

1. PRODUCT NAME (PATENT NO. 6567209)
2. PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED (G60 MINIMUM) COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40 ksi).
3. NOTE: DEFORMATIONS DO NOT EFFECT STRUCTURAL CAPACITY.
4. FOR SPANS LESS THAN 18'-0" BOX LINTELS TO BE 18 GA. FOR SPANS GREATER THAN AND EQUAL TO 18'-0" BOX LINTELS TO BE 16 GA.
5. SHORE LINTELS AS REQUIRED TO COMPENSATE FOR DEAD LOAD DEFLECTION ON NON-CURED MASONRY GROUT. ALL LINTELS GREATER THAN 18'-0" ARE BUILT WITH 1/2" CAMBER.
6. LINTEL TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING MINIMUM 7in AS SHOWN.
7. STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND.
8. DESIGN BEARING OF POWERS STEEL LINTELS IS 8" FOR ALL LINTELS GREATER THAN 18'-0" IN SPAN OR GREATER THAN 32" IN DEPTH. ALL OTHER LINTELS REQUIRE A MINIMUM OF 4" BEARING PER THE STANDARD AND FLORIDA BUILDING CODES.
9. f'm = 1500 psi. MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N.
10. GROUT = 3,000 psi. SLUMP RANGE: 8" TO 11". ROD OR VIBRATE GROUT ADEQUATELY TO ENSURE CONSOLIDATION OF GROUT (NO AIR POCKETS). GROUT SHALL COMPLY WITH ASTM C476-83 AND BE EITHER COARSE OR FINE GROUT.
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13. ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS.
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16. ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 4/2008 AND CLEARLY INDICATE SUPERIMPOSED LOADS.
17. #5 REINFORCING BAR (GRADE 40) IS TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES THE BOTTOM OF LINTEL AS SHOWN ON LOAD TABLES. TOP HORIZONTAL REINFORCEMENT IS TO BE A CONTINUOUS TIE AS NOTED IN NOTE #9. IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL REINFORCEMENT IS TO EXTEND 2'-0" PAST INSIDE OF JAMBS.

MANUFACTURER:

POWERS STEEL
4118 E. ELWOOD PHOENIX, AZ 85040
PH# 602-437-1160 FAX# 602-437-5409

TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING:

- FLORIDA BUILDING CODE - 2007
- NASPEC / AISI LIGHT GAGE COLD FORMED STEEL DESIGN - 2001 (W/ 2004 SUPPLEMENT)
- ACI 530-05/ASCE 5-05/TMS 402-05

TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONSIDERS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES.

STRUCTURAL ENGINEER FOR THESE LINTELS IS:

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5800 E. THOMAS RD. SUITE 104
SCOTTSDALE, AZ 85251
PHONE No. (480) 946-2010
FAX (480) 946-1969

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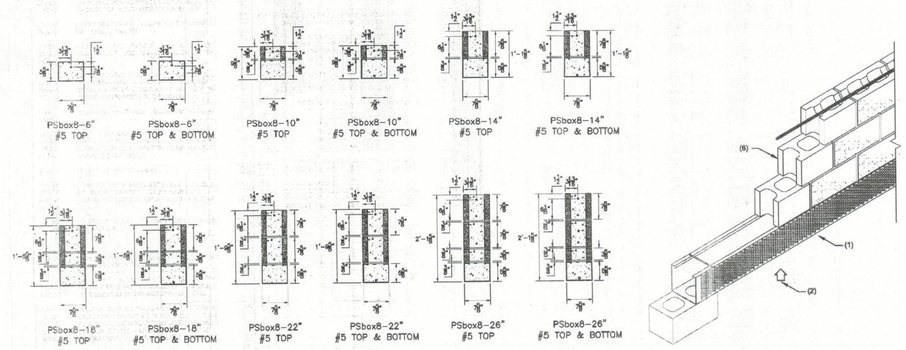
INSTALLATION:
POWERS LINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTIONS PRACTICES, SET TO PROPER LINE AND LEVEL, PLUMB AND TRUE, AND IN CORRECT RELATION TO OTHER WORK.

PSbox8(5-5/8) STEEL LINTELS
NOTE: NO SCALE
16 GAGE IS .060 INCHES THICK.
18 GAGE IS .048 INCHES THICK.



TYPICAL POWER BOX LINTEL SECTION

Florida Product Appoval # FL6264-R1

S.E. CONSULTANTS, Inc.
Structural Engineering Consultants
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JOB NAME	
JOB NO.	0308-08
ADDRESS	
CONTRACTOR	MARONDA
DRWG NO.	

DESCRIPTION	
ARCHITECT	
ENGINEER	

NO.	REVISION	BY	DATE

DETAILER
DATE: AUG. 2008
GRADE

POWERS STEEL & WIRE
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