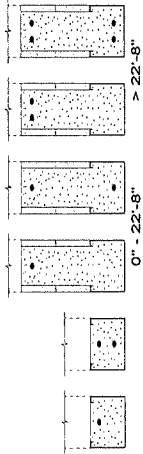


By: SWS

Date: 1/2024

chk: gcs



PSbox8LT (5-5/8") Lintels

8" inch block width

(22ga. < 18'-0" span)

LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

Gravity Load Table

3000 psi grout

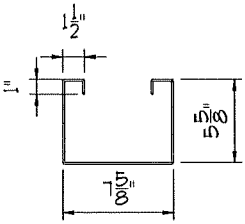
--- ALL LOADS ARE SUPERIMPOSED ---

SPAN (ft)	PSbox8-6" #5 top	PSbox8-6" #5 top&bot	PSbox8-10" #5 top	PSbox8-10" #5 top&bot	PSbox8-14" #5 top	PSbox8-14" #5 top&bot	PSbox8-18" #5 top	PSbox8-18" #5 top&bot	PSbox8-22" #5 top	PSbox8-22" #5 top&bot	PSbox8-26" #5 top	PSbox8-26" #5 top&bot	SPAN (ft)
1'-6"	3949	3949	5750	5750	7551	7551	9352	9352	11153	11153	12954	12954	1'-6"
2'-2"	2720	2720	3959	3959	5197	5197	6435	6435	7673	7673	8912	8912	2'-2"
2'-4"	2523	2523	3671	3671	4819	4819	5966	5966	7114	7114	8262	8262	2'-4"
2'-8"	2202	2202	3203	3203	4204	4204	5205	5205	6205	6205	7206	7206	2'-8"
2'-10"	2070	2070	3010	3010	3951	3951	4891	4891	5831	5831	6772	6772	2'-10"
3'-0"	1952	1952	2839	2839	3725	3725	4612	4612	5499	5499	6385	6385	3'-0"
3'-2"	1847	1847	2686	2686	3524	3524	4363	4363	5201	5201	6039	6039	3'-2"
3'-4"	1753	1753	2548	2548	3343	3343	4138	4138	4933	4933	5728	5728	3'-4"
4'-0"	1420	1453	2111	2111	2769	2769	3427	3427	4085	4085	4743	4743	4'-0"
4'-2"	1305	1393	2024	2024	2654	2654	3285	3285	3915	3915	4546	4546	4'-2"
4'-6"	1113	1287	1869	1869	2450	2450	3032	3032	3614	3614	4195	4195	4'-6"
5'-2"	833	1115	1618	1618	2121	2121	2624	2624	3127	3127	3630	3630	5'-2"
5'-4"	779	1026	1565	1565	2052	2052	2538	2538	3025	3025	3511	3511	5'-4"
6'-2"	572	664	1344	1344	1761	1761	2178	2178	2595	2595	3012	3012	6'-2"
6'-4"	540	613	1307	1307	1712	1712	2117	2117	2522	2522	2928	2928	6'-4"
7'-0"	434	805	1175	1175	1539	1539	1903	1903	2267	2267	2631	2631	7'-0"
8'-0"	322	606	999	1019	1334	1334	1649	1649	1964	1964	2279	2279	8'-0"
8'-4"	293	555	915	976	1277	1277	1578	1578	1879	1879	2181	2181	8'-4"
9'-2"	235	451	744	880	1152	1152	1423	1423	1694	1694	1966	1966	9'-2"
10'-0"	190	372	614	801	1002	1047	1294	1294	1540	1540	1787	1787	10'-0"
11'-2"	144	279	478	709	784	928	1090	1145	1363	1363	1581	1581	11'-2"
12'-0"	118	225	404	585	665	856	926	1057	1188	1257	1449	1458	12'-0"
12'-8"	102	191	355	498	587	806	818	994	1050	1183	1282	1372	12'-8"
13'-4"							726	938	932	1116	1139	1294	13'-4"

Note: All lintels greater than 22'-8" in length will require (2)-#5 bars top or (2)-#5 bars top&bot.



GRAVITY NOTES:

1.	PRODUCT NAME (PATENT NO. 6367209); PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40 ksi). NOTE: DEFORMATIONS DO NOT EFFECT STRUCTURAL CAPACITY. FOR SPANS LESS THAN 18'-0" BOX LINTELS TO BE 22 GA. FOR SPANS GREATER THAN AND EQUAL TO 18'-0" BOX LINTELS TO BE 16 GA.	14.	#5 REINFORCING BAR(S) GRADE 40 ARE 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.
2.	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.	15.	MANUFACTURER: POWERS STEEL PRODUCTS LINTELS 4118 E. ELWOOD PHOENIX, AZ 85040 PH# 602-437-1160 FAX# 602-437-5409
3.	LINTEL TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING MINIMUM f_m AS SHOWN.	16.	TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING: + FLORIDA BUILDING CODE - 2023 (EIGHTH EDITION) + AISI NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL - 2016 (2020) + TMS 402-16
4.	STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND.	17.	TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS 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) 946-1909
5.	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.		IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.
6.	f_m = 1500 psi. MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N.		
7.	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 C476-19 AND BE EITHER COARSE OR FINE GROUT.		
8.	MORTAR: TYPE "S" OR TYPE "M" 1800 psi.		
9.	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.	18.	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.
10.	ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS.		
11.	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. 1/4" 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.		PSBox8LT (5-5/8) STEEL LINTELS NOTE: NO SCALE 22 GAGE IS .030 INCHES THICK.
12.	DEFLECTION LIMITS ARE SET TO L/600 FOR ALL LOADS SHOWN ABOVE THE DARKENED SOLID LINE. DEFLECTION LIMITS ARE SET TO L/360 [LIVE LOAD] AND L/240 [DEAD + LIVE LOAD] FOR ALL LOADS SHOWN BELOW DARKENED SOLID LINE.		
13.	ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 01/2024 AND CLEARLY INDICATE SUPERIMPOSED LOADS.		

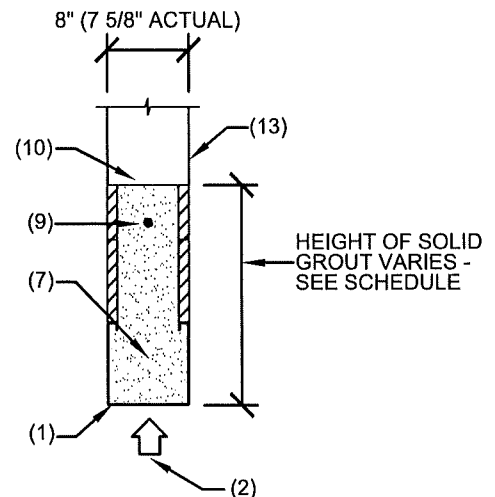
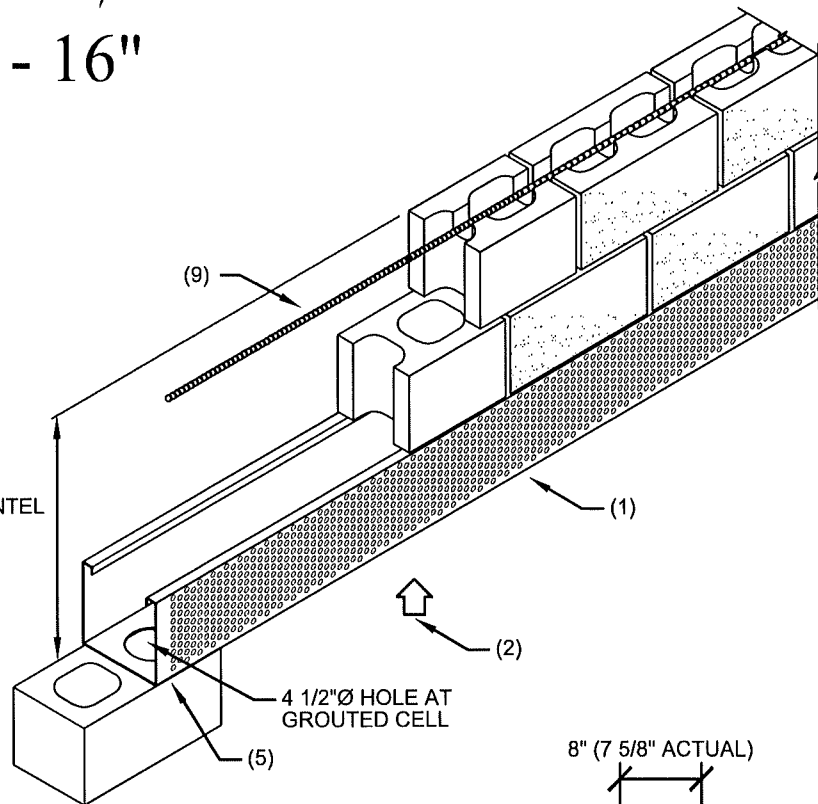
Powers Steel Product Lintel (Gravity)

LINTEL DESCRIPTION

INDICATES HEIGHT OF GROUT

PSbox8LT - 16"

HEIGHT OF COMPOSITE LINTEL
VARIES - SEE PLAN AND
SCHEDULES.



S.E. CONSULTANTS, INC.



5800 E. THOMAS ROAD, SUITE 104
SCOTTSDALE, ARIZONA 85251
(480) 946-2010 FAX: (480) 946-1909

By: SWS

Date: 1/2024

chk: gcs

PSbox8LT (5-5/8") Lintels

8" inch block width

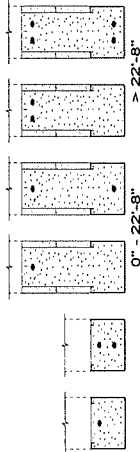
(22ga. < 18'-0" span)

LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

Lateral Load Table

3000 psi grout

--- ALL LOADS ARE SUPERIMPOSED ---



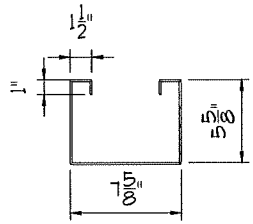
SPAN (ft)	PSbox8-6" #5 top	PSbox8-6" #5 top&bot	PSbox8-10" #5 top	PSbox8-10" #5 top&bot	PSbox8-14" #5 top	PSbox8-14" #5 top&bot	PSbox8-18" #5 top	PSbox8-18" #5 top&bot	PSbox8-22" #5 top	PSbox8-22" #5 top&bot	PSbox8-26" #5 top	PSbox8-26" #5 top&bot	SPAN (ft)
1'-6"	2340	2340	3182	3182	4051	4051	4938	4938	5840	5840	6752	6752	1'-6"
2'-2"	1620	1620	2203	2203	2804	2804	3419	3419	4043	4043	4675	4675	2'-2"
2'-4"	1505	1505	2045	2045	2604	2604	3175	3175	3754	3754	4341	4341	2'-4"
2'-8"	1316	1316	1790	1790	2278	2278	2778	2778	3285	3285	3798	3798	2'-8"
2'-10"	1239	1239	1684	1684	2144	2144	2614	2614	3092	3092	3575	3575	2'-10"
3'-0"	1170	1170	1591	1591	2025	2025	2469	2469	2920	2920	3376	3376	3'-0"
3'-2"	1109	1109	1507	1507	1919	1919	2339	2339	2766	2766	3199	3199	3'-2"
3'-4"	1053	1053	1432	1432	1823	1823	2222	2222	2628	2628	3039	3039	3'-4"
4'-0"	878	878	1193	1193	1519	1519	1852	1852	2190	2190	2532	2532	4'-0"
4'-2"	843	843	1145	1145	1458	1458	1778	1778	2102	2102	2431	2431	4'-2"
4'-6"	780	780	1061	1061	1350	1350	1646	1646	1947	1947	2251	2251	4'-6"
5'-2"	679	679	924	924	1176	1176	1434	1434	1695	1695	1960	1960	5'-2"
5'-4"	658	658	895	895	1139	1139	1389	1389	1642	1642	1899	1899	5'-4"
6'-2"	569	569	774	774	985	985	1201	1201	1421	1421	1626	1642	6'-2"
6'-4"	554	554	754	754	959	959	1170	1170	1383	1383	1542	1599	6'-4"
7'-0"	502	502	682	682	868	868	1058	1058	1179	1222	1262	1313	7'-0"
8'-0"	439	439	597	597	759	759	835	861	903	935	966	1005	8'-0"
8'-4"	421	421	573	573	702	719	769	793	832	862	891	927	8'-4"
9'-2"	383	383	519	521	580	594	636	655	688	712	736	766	9'-2"
10'-0"	351	351	436	443	487	499	534	551	578	599	618	643	10'-0"
11'-2"	303	306	349	356	391	400	429	442	463	480	496	516	11'-2"
12'-0"	262	265	303	308	338	347	371	382	401	416	429	447	12'-0"
12'-8"	235	238	272	276	304	311	333	343	360	373	385	401	12'-8"
13'-4"							301	310	325	337	348	362	13'-4"

Note: Above loads include 1/3 increase for wind.

All lintels greater than 22'-8" in length will require (2)-#5 bars top or (2)-#5 bars top&bot.



UPLIFT/LATERAL NOTES:

1.	PRODUCT NAME (PATENT NO. 6367209); PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40 ksi). NOTE: DEFORMATIONS DO NOT EFFECT STRUCTURAL CAPACITY. FOR SPANS LESS THAN 18'-0" BOX LINTELS TO BE 22 GA. FOR SPANS GREATER THAN AND EQUAL TO 18'-0" BOX LINTELS TO BE 16 GA.	14.	#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.
2.	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.	15.	MANUFACTURER: POWERS STEEL PRODUCTS LINTELS 4118 E. ELWOOD PHOENIX, AZ 85040 PH# 602-437-1160 FAX# 602-437-5409
3.	LINTEL TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING MINIMUM F_m AS SHOWN.	16.	TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING: + FLORIDA BUILDING CODE - 2023 (EIGHTH EDITION) + AISI NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL - 2016 (2020) + TMS 402-16
4.	STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND.	17.	TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS 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) 946-1909
5.	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.		IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.
6.	F_m = 1500 psi. MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N.	18.	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.
7.	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 C476-19 AND BE EITHER COARSE OR FINE GROUT.		
8.	MORTAR: TYPE "S" OR TYPE "M" 1800 psi.		PSbox8LT(5-5/8) STEEL LINTELS NOTE: NO SCALE 22 GAGE IS .030 INCHES THICK.
9.	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.		
10.	ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS.		
11.	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. 1/4" 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.		
12.	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. TABLE VALUES SHOULD BE USED WITH ALTERNATE ALLOWABLE STRESS COMBINATIONS WITH A W OF 1.3. OTHERWISE REDUCE TABLE VALUES FOR ALLOWABLE STRESS COMBINATIONS BY 1/3. 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.		
13.	ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 01/2024 AND CLEARLY INDICATE SUPERIMPOSED LOADS.		

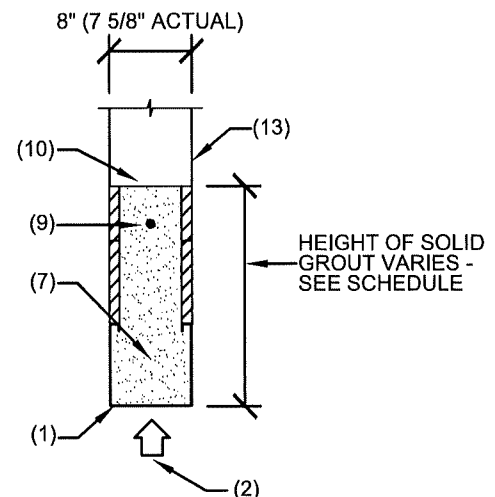
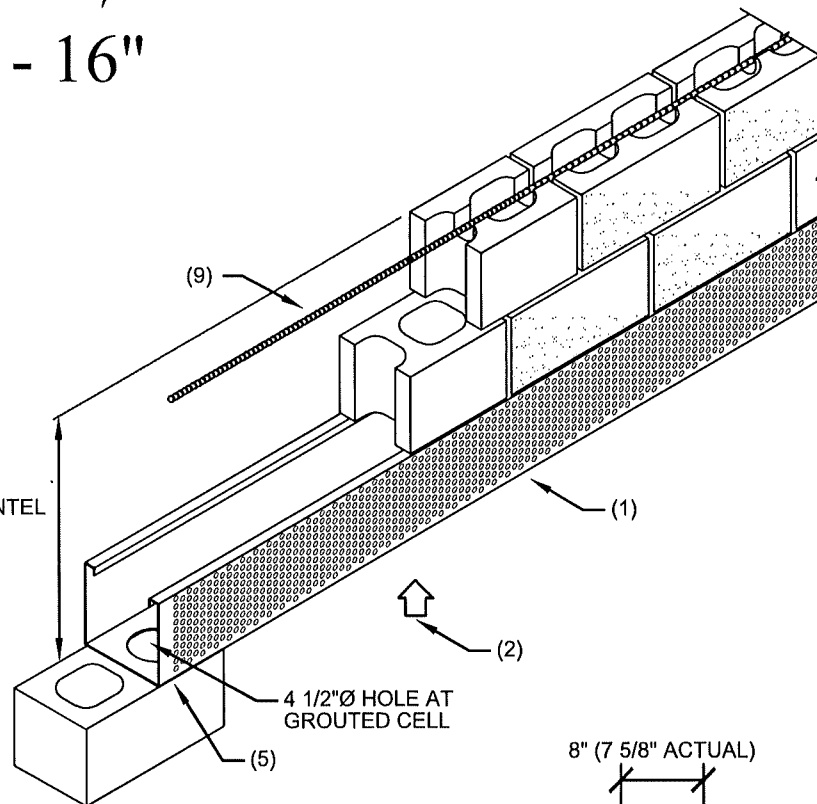
Powers Steel Product Lintel (Lateral)

LINTEL DESCRIPTION

INDICATES HEIGHT OF GROUT

PSbox8LT - 16"

HEIGHT OF COMPOSITE LINTEL
VARIES - SEE PLAN AND
SCHEDULES.



S.E. CONSULTANTS, INC.



5800 E. THOMAS ROAD, SUITE 104
SCOTTSDALE, ARIZONA 85251
(480) 946-2010 FAX: (480) 946-1909

By: sws

Date: 1/2024

chk: gcs

PSbox8LT (5-5/8") Lintels

8" inch block width

(22ga. < 18'-0" span)

LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

Uplift Load Table

3000 psi grout

--- ALL LOADS ARE SUPERIMPOSED ---

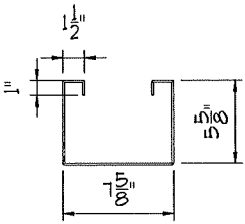
SPAN (ft)	PSbox8-6" #5 top	PSbox8-6" #5 top&bot	PSbox8-10" #5 top	PSbox8-10" #5 top&bot	PSbox8-14" #5 top	PSbox8-14" #5 top&bot	PSbox8-18" #5 top	PSbox8-18" #5 top&bot	PSbox8-22" #5 top	PSbox8-22" #5 top&bot	PSbox8-26" #5 top	PSbox8-26" #5 top&bot	SPAN (ft)
1'-6"	4892	4892	6713	6713	8776	8776	10862	10862	9003	9003	10470	10470	1'-6"
2'-2"	3256	3256	4661	4661	6094	6094	7544	7544	8367	8367	9731	9731	2'-2"
2'-4"	3026	2026	4331	4331	5663	5663	7010	7010					2'-4"
2'-8"	2651	2651	3795	3795	4963	4963	6144	6144	7333	7333	8528	8528	2'-8"
2'-10"	2496	2496	3575	3575	4675	4675	5787	5787	6907	6907	8033	8033	2'-10"
3'-0"	2359	2359	3378	3378	4418	4418	5470	5470	6528	6528	7593	7593	3'-0"
3'-2"	2236	2236	3203	3203	4189	4189	5186	5186	6190	6190	7199	7199	3'-2"
3'-4"	2126	2126	3045	3045	3982	3982	4930	4930	5885	5885	6845	6845	3'-4"
4'-0"	1776	1776	2545	2545	3329	3329	4121	4121	4920	4920	5722	5722	4'-0"
4'-2"	1706	1706	2445	2445	3198	3198	3960	3960	4727	4727	5498	5498	4'-2"
4'-6"	1582	1582	2267	2267	2966	2966	3672	3672	4383	4383	5099	5099	4'-6"
5'-2"	1221	1221	1980	1980	2591	2591	3208	3208	3830	3830	4455	4455	5'-2"
5'-4"	1147	1147	1919	1919	2512	2512	3110	3110	3713	3713	4319	4319	5'-4"
6'-2"	865	865	1579	1579	2134	2134	2695	2695	3224	3224	3751	3751	6'-2"
6'-4"	821	821	1499	1499	2026	2026	2559	2559	3096	3096	3635	3635	6'-4"
7'-0"	677	677	1235	1235	1670	1670	2109	2109	2551	2551	2996	2996	7'-0"
8'-0"	525	525	956	956	1292	1292	1633	1633	1975	1975	2320	2320	8'-0"
8'-4"	486	486	884	884	1196	1196	1511	1511	1828	1828	2146	2146	8'-4"
9'-2"	406	406	738	738	999	999	1262	1262	1527	1527	1793	1793	9'-2"
10'-0"	345	345	627	627	849	849	1073	1073	1298	1298	1524	1524	10'-0"
11'-2"	282	282	512	512	693	693	875	875	1059	1059	1244	1244	11'-2"
12'-0"	248	248	449	449	608	608	768	768	930	930	1092	1092	12'-0"
12'-8"	225	225	407	407	552	552	698	698	844	844	992	992	12'-8"
13'-4"													13'-4"

Note: Above loads include 1/3 increase for wind.

All lintels greater than 22'-8" in length will require (2)-#5 bars top or (2)-#5 bars top&bot.



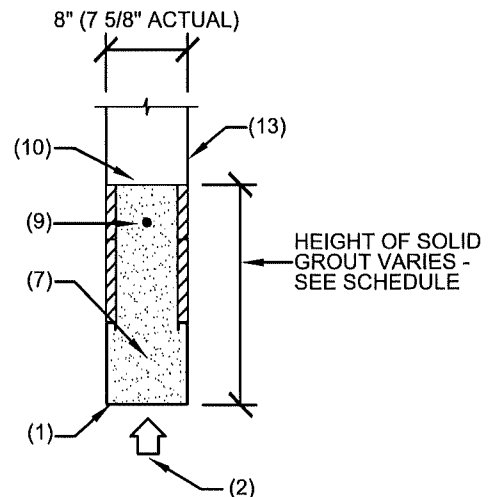
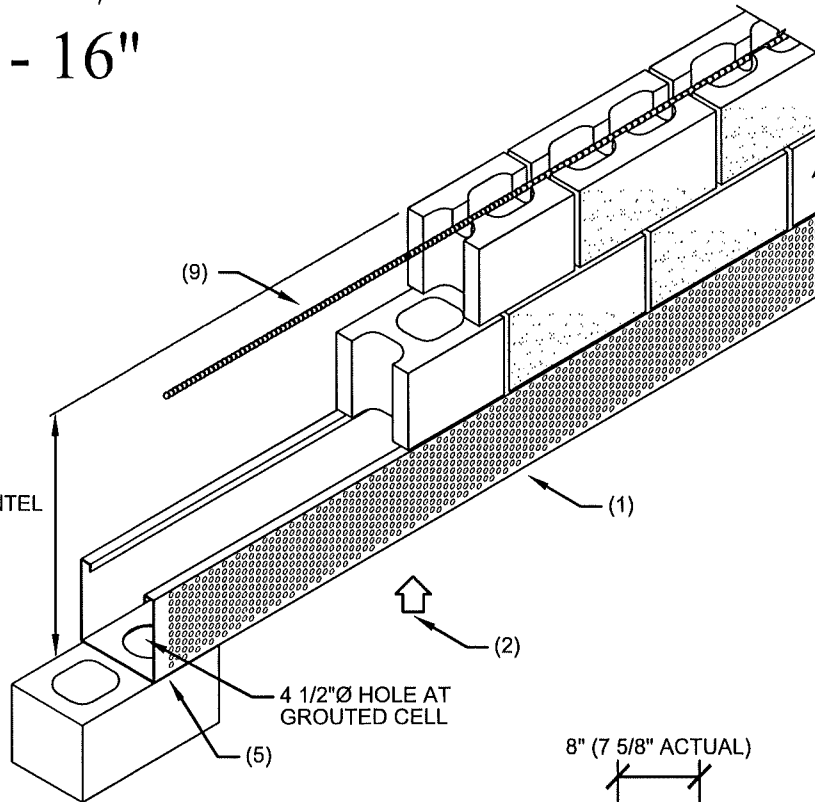
UPLIFT/LATERAL NOTES:

1.	PRODUCT NAME (PATENT NO. 6367209); PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40 ksi). NOTE: DEFORMATIONS DO NOT EFFECT STRUCTURAL CAPACITY. FOR SPANS LESS THAN 18'-0" BOX LINTELS TO BE 22 GA. FOR SPANS GREATER THAN AND EQUAL TO 18'-0" BOX LINTELS TO BE 16 GA.	14.	#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.
2.	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.	15.	MANUFACTURER: POWERS STEEL PRODUCTS LINTELS 4118 E. ELWOOD PHOENIX, AZ 85040 PH# 602-437-1160 FAX# 602-437-5409
3.	LINTEL TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING MINIMUM f_m AS SHOWN.	16.	TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING: + FLORIDA BUILDING CODE - 2023 (EIGHTH EDITION) + AISI NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL - 2016 (2020) + TMS 402-16
4.	STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND.	17.	TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS 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) 946-1909 IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.
5.	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.	18.	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.
6.	$f_m = 1500$ psi. MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N.		
7.	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 C476-19 AND BE EITHER COARSE OR FINE GROUT.		PSBox8LT(5-5/8) STEEL LINTELS NOTE: NO SCALE 22 GAGE IS .030 INCHES THICK.
8.	MORTAR: TYPE "S" OR TYPE "M" 1800 psi.		
9.	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.		
10.	ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS.		
11.	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. 1/4" 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.		
12.	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. TABLE VALUES SHOULD BE USED WITH ALTERNATE ALLOWABLE STRESS COMBINATIONS WITH A W OF 1.3. OTHERWISE REDUCE TABLE VALUES FOR ALLOWABLE STRESS COMBINATIONS BY 1/3. 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.		
13.	ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 01/2024 AND CLEARLY INDICATE SUPERIMPOSED LOADS.		

Powers Steel Product Lintel (Uplift)

LINTEL DESCRIPTION
 PSbox8LT - 16"
 INDICATES HEIGHT OF GROUT

HEIGHT OF COMPOSITE LINTEL VARIES - SEE PLAN AND SCHEDULES.



S.E. CONSULTANTS, INC.



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