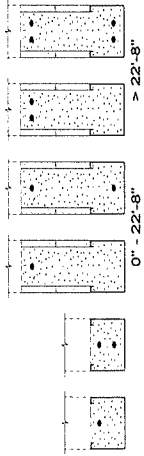


PSbox8LT Lintels

By: SWS

Date: 1/2024

chk: gcs



8" inch block width

LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

Gravity Load Table 3000 psi grout

--- ALL LOADS ARE SUPERIMPOSED ---

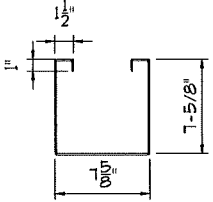
(22ga. < 18'-0" span)

SPAN (ft)	PSbox8-8" #5 top	PSbox8-8" #5 top&bot	PSbox8-12" #5 top	PSbox8-12" #5 top&bot	PSbox8-14" #5 top	PSbox8-14" #5 top&bot	PSbox8-16" #5 top	PSbox8-16" #5 top&bot	PSbox8-20" #5 top	PSbox8-20" #5 top&bot	PSbox8-24" #5 top	PSbox8-24" #5 top&bot	PSbox8-32" #5 top	PSbox8-32" #5 top&bot	PSbox8-40" #5 top	PSbox8-40" #5 top&bot	SPAN (ft)
1'-6"	4495	4495	6296	6296	7196	7196	8097	8097	9898	9898	11699	11699					1'-6"
2'-2"	3094	3094	4332	4332	4951	4951	5570	5570	6809	6809	8047	8047					2'-2"
2'-8"	2503	2503	3504	3504	4004	4004	4504	4504	5505	5505	6506	6506					2'-8"
3'-2"	2098	2098	2937	2937	3356	3356	3775	3775	4613	4613	5452	5452					3'-2"
4'-0"	1649	1649	2307	2307	2636	2636	2965	2965	3623	3623	4280	4280					4'-0"
4'-6"	1459	1459	2041	2041	2332	2332	2623	2623	3204	3204	3786	3786					4'-6"
5'-2"	1263	1263	1766	1766	2018	2018	2269	2269	2772	2772	3275	3275					5'-2"
6'-2"	1026	1049	1466	1466	1674	1674	1883	1883	2300	2300	2717	2717					6'-2"
7'-0"	783	917	1281	1281	1463	1463	1645	1645	2009	2009	2373	2373					7'-0"
8'-0"	586	795	1110	1110	1268	1268	1425	1425	1740	1740	2055	2055					8'-0"
9'-2"	432	686	958	958	1093	1093	1229	1229	1500	1500	1772	1772					9'-2"
10'-0"	354	610	841	841	994	994	1117	1117	1363	1363	1610	1610					10'-0"
11'-2"	272	477	657	771	840	880	988	988	1206	1206	1424	1424					11'-2"
12'-0"	228	406	557	711	714	811	870	912	1112	1112	1313	1313					12'-0"
12'-8"	198	358	491	669	630	763	769	858	1046	1046	1235	1235					12'-8"
13'-4"	173	317	435	614	559	720	683	809	931	987	1165	1165					13'-4"
14'-0"	152	282	386	549	498	681	609	765	831	933	1054	1101					14'-0"
16'-0"	102	202	276	400	357	583	439	655	603	799	767	942					16'-0"
18'-0"																	18'-0"
18'-8"																	18'-8"
20'-8"																	20'-8"
22'-8"																	22'-8"
24'-0"																	24'-0"
26'-0"																	26'-0"

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 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 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.	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 & WIRE

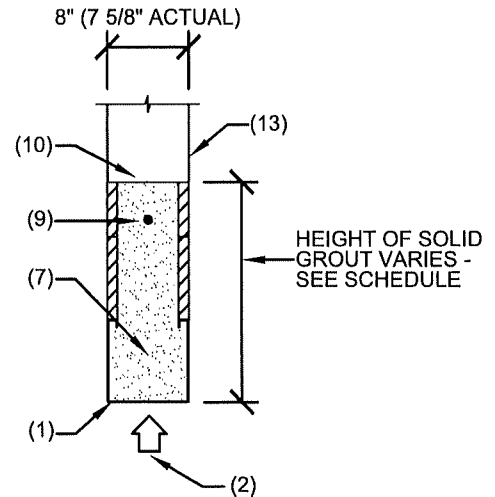
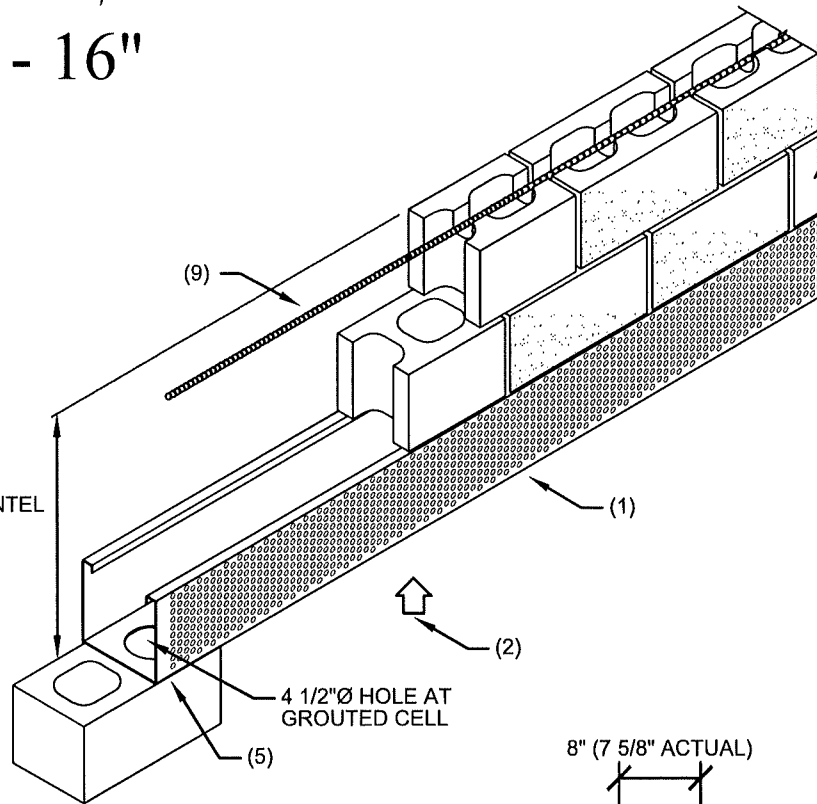
Powers Steel Product Lintel (Gravity)

LINTEL DESCRIPTION

INDICATES HEIGHT OF GROUT

PSbox8LT - 16"

HEIGHT OF COMPOSITE LINTEL
VARIES - SEE PLAN AND
SCHEDULES.



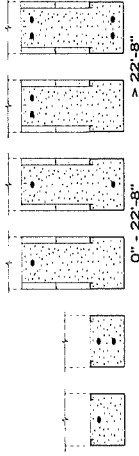
S.E. CONSULTANTS, INC.



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

PSbox8LT Lintels

By: SWS
Date: 1/2024
chk: gcs



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

8" inch block width
LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

Lateral Load Table
3000 psi grout

--- ALL LOADS ARE SUPERIMPOSED ---

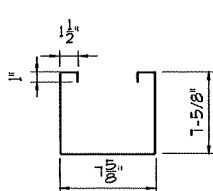
SPAN (ft)	PSbox8-8" #5 top	PSbox8-8" #5 top&bot	PSbox8-12" #5 top	PSbox8-12" #5 top&bot	PSbox8-14" #5 top	PSbox8-14" #5 top&bot	PSbox8-16" #5 top	PSbox8-16" #5 top&bot	PSbox8-20" #5 top	PSbox8-20" #5 top&bot	PSbox8-24" #5 top	PSbox8-24" #5 top&bot	PSbox8-32" #5 top	PSbox8-32" #5 top&bot	PSbox8-40" #5 top	PSbox8-40" #5 top&bot	SPAN (ft)
1'-6"	2747	2747	3598	3598	4032	4032	4471	4471	5361	5361	6263	6263	8095	8095	9956	9956	1'-6"
2'-2"	1902	1902	2491	2491	2792	2792	3096	3096	3711	3711	4336	4336	5604	5604	6892	6892	2'-2"
2'-8"	1545	1545	2024	2024	2268	2268	2515	2515	3016	3016	3523	3523	4554	4554	5600	5600	2'-8"
3'-2"	1301	1301	1704	1704	1910	1910	2118	2118	2539	2539	2967	2967	3835	3835	4716	4716	3'-2"
4'-0"	1030	1030	1349	1349	1512	1512	1677	1677	2010	2010	2349	2349	3036	3036	3733	3733	4'-0"
4'-6"	916	916	1199	1199	1344	1344	1490	1490	1787	1787	2088	2088	2698	2698	3319	3319	4'-6"
5'-2"	798	798	1045	1045	1171	1171	1298	1298	1556	1556	1818	1818	2350	2350	2868	2868	5'-2"
6'-2"	668	668	875	875	981	981	1088	1088	1304	1304	1523	1523	1896	1896	2013	2106	6'-2"
7'-0"	589	589	771	771	864	864	958	958	1149	1149	1250	1292	1414	1471	1562	1635	7'-0"
8'-0"	515	515	675	675	756	756	835	835	889	915	957	989	1083	1126	1196	1252	8'-0"
9'-2"	450	450	561	571	592	604	621	636	677	697	729	753	825	858	911	953	9'-2"
10'-0"	412	412	471	480	497	508	522	535	569	585	613	633	693	721	766	801	10'-0"
11'-2"	333	336	378	385	399	407	419	429	456	469	491	508	556	578	614	642	11'-2"
12'-0"	288	291	327	333	345	353	362	371	395	407	425	440	481	501	532	556	12'-0"
12'-8"	258	262	294	299	310	316	325	333	355	365	382	395	432	449	477	499	12'-8"
13'-4"	233	236	265	270	280	286	294	301	320	329	345	356	390	406	431	451	13'-4"
14'-0"	212	214	240	245	254	259	266	273	290	299	313	323	354	368	391	409	14'-0"
16'-0"	162	164	184	187	194	198	204	209	222	229	239	247	271	282	299	313	16'-0"
18'-0"																	18'-0"
18'-8"																	18'-8"
20'-8"																	20'-8"
22'-8"																	22'-8"
24'-0"																	24'-0"
26'-0"																	26'-0"

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. 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. 3. LINTEL TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING MINIMUM f_m AS SHOWN. 4. STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND. 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. 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. 10. ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS. 11. LIMITATIONS: 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 COMBINATION 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.	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. 15. MANUFACTURER: POWERS STEEL 4118 E. ELWOOD PHOENIX, AZ 85040 PH# 602-437-1160 FAX# 602-437-5409 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 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. 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.  PSbox8LT STEEL LINTELS NOTE: NO SCALE 22 GAGE IS .030 INCHES THICK.
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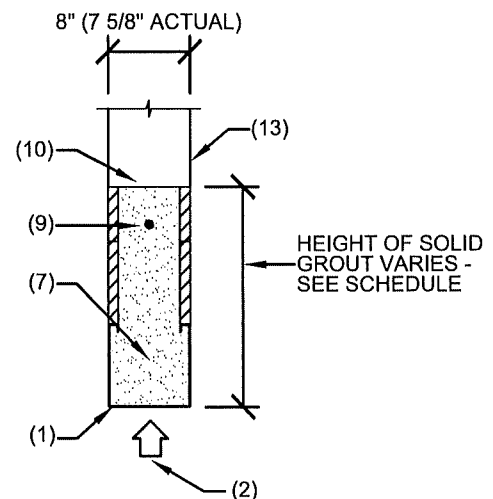
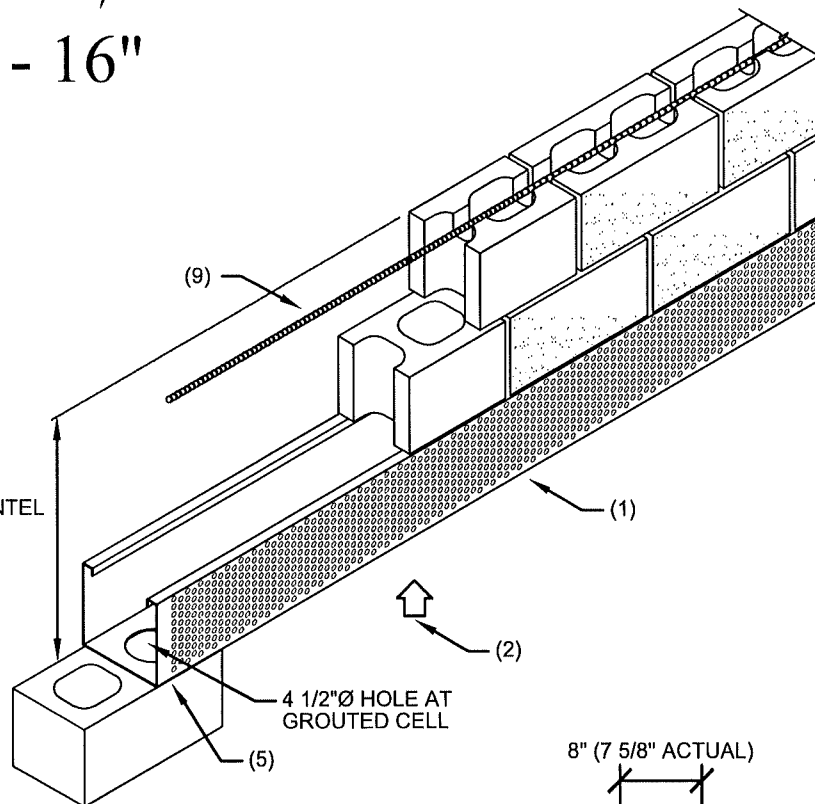
Powers Steel Product Lintel (Lateral)

LINTEL DESCRIPTION

INDICATES HEIGHT OF GROUT

PSbox8LT - 16"

HEIGHT OF COMPOSITE LINTEL
VARIES - SEE PLAN AND
SCHEDULES.

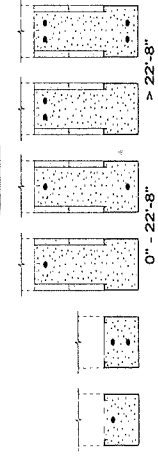


S.E. CONSULTANTS, INC.



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

By: SWS
Date: 1/2024
chk: gcs



PSbox8LT Lintels

8" inch block width
LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)
Up lift Load Table 3000 psi grout
(22ga. < 18'-0" span)

--- ALL LOADS ARE SUPERIMPOSED ---

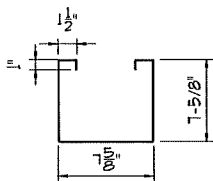
SPAN (ft)	PSbox8-8" #5 top	PSbox8-8" #5 top&bot	PSbox8-12" #5 top	PSbox8-12" #5 top&bot	PSbox8-14" #5 top	PSbox8-14" #5 top&bot	PSbox8-16" #5 top	PSbox8-16" #5 top&bot	PSbox8-20" #5 top	PSbox8-20" #5 top&bot	PSbox8-24" #5 top	PSbox8-24" #5 top&bot	PSbox8-32" #5 top	PSbox8-32" #5 top&bot	PSbox8-40" #5 top	PSbox8-40" #5 top&bot	SPAN (ft)
1'-6"	4810	4810	6757	6757	7743	7743	8733	8733	10727	10727	12733	12733					1'-6"
2'-2"	3341	3341	4694	4694	5379	5379	6067	6067	7453	7453	8847	8847	11653	11653			2'-2"
2'-8"	2721	2721	3824	3824	4382	4382	4943	4943	6071	6071	7207	7207	9493	9493	11793	11793	2'-8"
3'-2"	2297	2297	3228	3228	3699	3699	4173	4173	5126	5126	6085	6085	8016	8016	9958	9958	3'-2"
4'-0"	1826	1826	2567	2567	2941	2941	3318	3318	4076	4076	4839	4839	6374	6374	7919	7919	4'-0"
4'-6"	1627	1627	2287	2287	2621	2621	2957	2957	3633	3633	4313	4313	5681	5681	7058	7058	4'-6"
5'-2"	1422	1422	1999	1999	2291	2291	2584	2584	3175	3175	3769	3769	4966	4966	6169	6169	5'-2"
6'-2"	1197	1197	1683	1683	1929	1929	2176	2176	2674	2674	3175	3175	4182	4182	5196	5196	6'-2"
7'-0"	1051	1051	1489	1489	1707	1707	1926	1926	2366	2366	2809	2809	3701	3701	4598	4598	7'-0"
8'-0"	813	813	1219	1219	1388	1388	1557	1557	1898	1898	2241	2241	2932	2932	3626	3626	8'-0"
9'-2"	628	628	941	941	1071	1071	1203	1203	1466	1466	1732	1732	2265	2265	2802	2802	9'-2"
10'-0"	533	533	799	799	910	910	1021	1021	1246	1246	1471	1471	1925	1925	2382	2382	10'-0"
11'-2"	435	435	651	651	742	742	833	833	1016	1016	1200	1200	1571	1571	1944	1944	11'-2"
12'-0"	381	381	571	571	650	650	730	730	891	891	1053	1053	1379	1379	1706	1706	12'-0"
12'-8"	346	346	518	518	590	590	663	663	809	809	956	956	1251	1251	1548	1548	12'-8"
13'-4"	315	315	472	472	538	538	605	605	738	738	872	872	1143	1143	1414	1414	13'-4"
14'-0"	289	289	433	433	494	494	555	555	678	678	801	801	1049	1049	1298	1298	14'-0"
16'-0"	230	230	344	344	392	392	441	441	539	539	637	637	835	835	1034	1034	16'-0"
18'-0"																	18'-0"
18'-8"																	18'-8"
20'-8"																	20'-8"
22'-8"																	22'-8"
24'-0"																	24'-0"
26'-0"																	26'-0"

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 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.	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.
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 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 COMBINATION 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.		PSBox8LT STEEL LINTELS NOTE: NO SCALE 22 GAGE IS .030 INCHES THICK.
13.	ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 01/2024 AND CLEARLY INDICATE SUPERIMPOSED LOADS.		

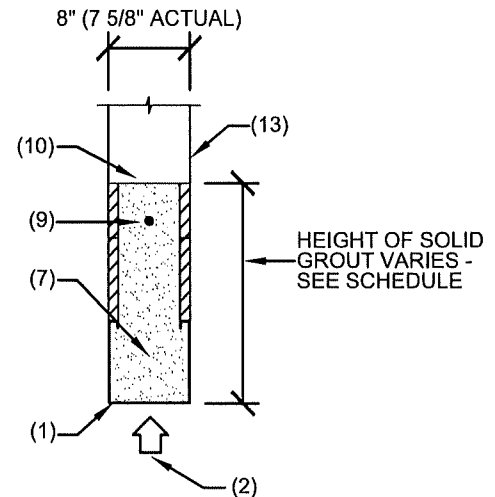
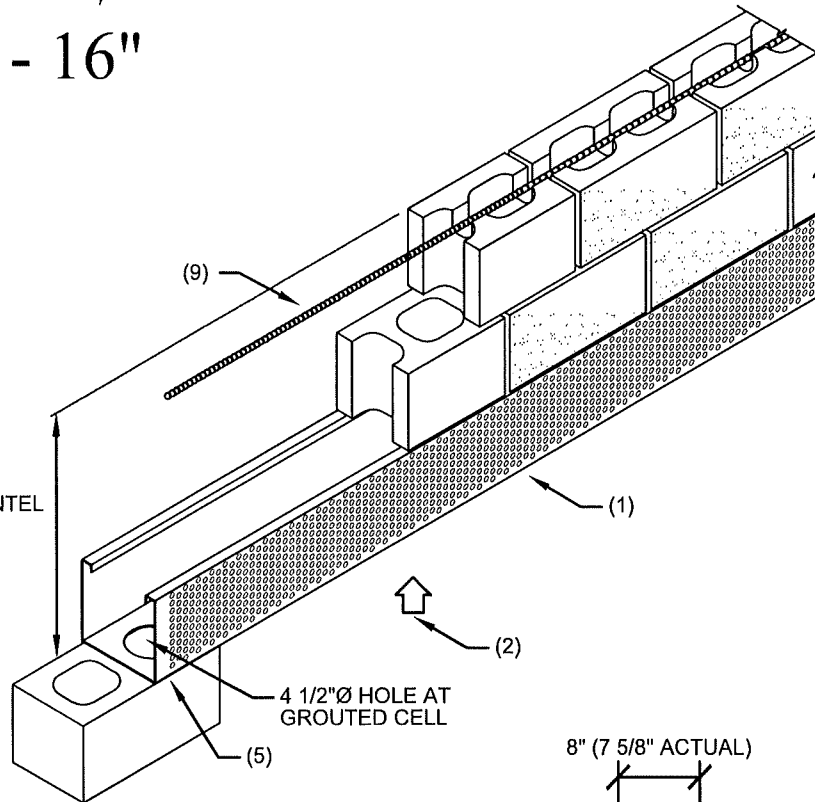
Powers Steel Product Lintel (Uplift)

LINTEL DESCRIPTION

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