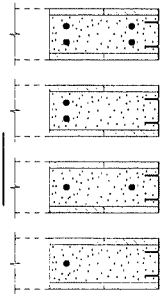


By: sws

Date: 1/2024

chk: gcs



PS8 Lintels

8" inch block width

WITHOUT STIRRUPS (L2)

LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

Gravity Load Table 3000 psi grout

--- ALL LOADS ARE SUPERIMPOSED ---

SPAN (ft)	PS8-8" #5 top	PS8-8" #5 top&bot	PS8-12" #5 top	PS8-12" #5 top&bot	PS8-16" #5 top	PS8-16" #5 top&bot	PS8-20" #5 top	PS8-20" #5 top&bot	PS8-24" #5 top	PS8-24" #5 top&bot	PS8-32" #5 top	PS8-32" #5 top&bot	PS8-40" #5 top	PS8-40" #5 top&bot	PS8-48" #5 top	PS8-48" #5 top&bot	SPAN (ft)
1'-6"	8945	8945	10746	10746	8650	8650	8007	8007									1'-6"
2'-2"	6174	6174	7412	7412	7006	7006											2'-2"
2'-8"	5005	5005	6005	6005													2'-8"
3'-2"	4205	4205	5043	5043	5881	5881	6720	6720	7558	7558	9235	9235					3'-2"
4'-0"	3316	3316	3974	3974	4632	4632	5290	5290	5947	5947	7263	7263					4'-0"
4'-6"	2941	2941	3522	3522	4104	4104	4686	4686	5267	5267	6431	6431					4'-6"
5'-2"	2553	2553	3056	3056	3559	3559	4062	4062	4565	4565	5571	5571					5'-2"
6'-2"	1957	1957	2546	2546	2963	2963	3380	3380	3797	3797	4631	4631	5464	5464			6'-2"
7'-0"	1505	1505	2232	2232	2596	2596	2960	2960	3324	3324	4052	4052	4780	4780			7'-0"
8'-0"	1138	1138	1942	1942	2257	2257	2572	2572	2887	2887	3517	3517	4147	4147	4777	4777	8'-0"
9'-2"	777	777	1670	1683	1955	1955	2226	2226	2497	2497	3040	3040	3583	3583	4125	4125	9'-2"
10'-0"	599	599	1389	1424	1782	1782	2028	2028	2275	2275	2767	2767	3260	3260	3753	3753	10'-0"
11'-2"	430	430	1016	1016	1550	1584	1801	1801	2019	2019	2454	2454	2890	2890	3325	3325	11'-2"
12'-0"	346	346	819	819	1326	1465	1666	1666	1867	1867	2268	2268	2669	2669	3070	3070	12'-0"
12'-8"	295	295	696	696	1178	1382	1525	1571	1759	1759	2136	2136	2514	2514	2891	2891	12'-8"
13'-4"	253	253	597	597	1052	1307	1362	1485	1663	1663	2018	2018	2374	2374	2729	2729	13'-4"
14'-0"	218	218	516	516	943	1179	1222	1407	1500	1575	1911	1911	2247	2247	2583	2583	14'-0"
16'-0"			345	345	695	875	901	1157	1108	1357	1521	1644	1930	1930	2217	2217	16'-0"
18'-0"			243	243	524	667	681	884	839	1100	1154	1435	1469	1684	1783	1933	18'-0"
18'-8"					479	612	623	811	768	1011	1057	1376	1346	1614	1634	1852	18'-8"
20'-8"					369	478	482	635	594	793	820	1108	1045	1423	1270	1640	20'-8"
22'-8"					287	377	376	503	465	630	643	882	821	1135	998	1388	22'-8"
24'-0"					248	338	324	563	401	705	553	991	706	1277	859	1364	24'-0"
26'-0"							255	458	316	575	438	811	559	1046	681	1233	26'-0"

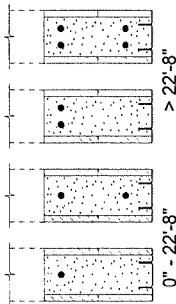
Note: All lintels greater than 22'-8" in length will require (2)-#5 bars top or (2)-#5 bars top&bot.



By: sws

Date: 1/2024

chk: gcs



PS8 Lintels

8" inch block width

WITHOUT STIRRUPS (L2)

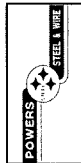
LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

Gravity Load Table 3000 psi grout

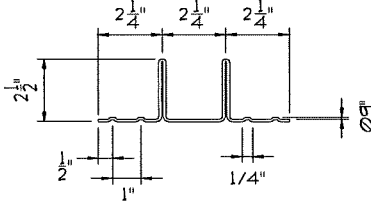
--- ALL LOADS ARE SUPERIMPOSED ---

SPAN (ft)	PS8-8" #5 top	PS8-8" #5 top&bot	PS8-12" #5 top	PS8-12" #5 top&bot	PS8-16" #5 top	PS8-16" #5 top&bot	PS8-20" #5 top	PS8-20" #5 top&bot	PS8-24" #5 top	PS8-24" #5 top&bot	PS8-32" #5 top	PS8-32" #5 top&bot	PS8-40" #5 top	PS8-40" #5 top&bot	PS8-48" #5 top	PS8-48" #5 top&bot	SPAN (ft)
28'-0"							200	375	248	472	346	667	443	863	540	1058	28'-0"
30'-0"							155	308	194	389	271	552	349	715	426	877	30'-0"
32'-0"											211	457	272	594	333	730	32'-0"
34'-0"													208	493	256	608	34'-0"
36'-0"															192	505	36'-0"
38'-0"																	38'-0"
40'-0"																	40'-0"

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



GRAVITY NOTES:

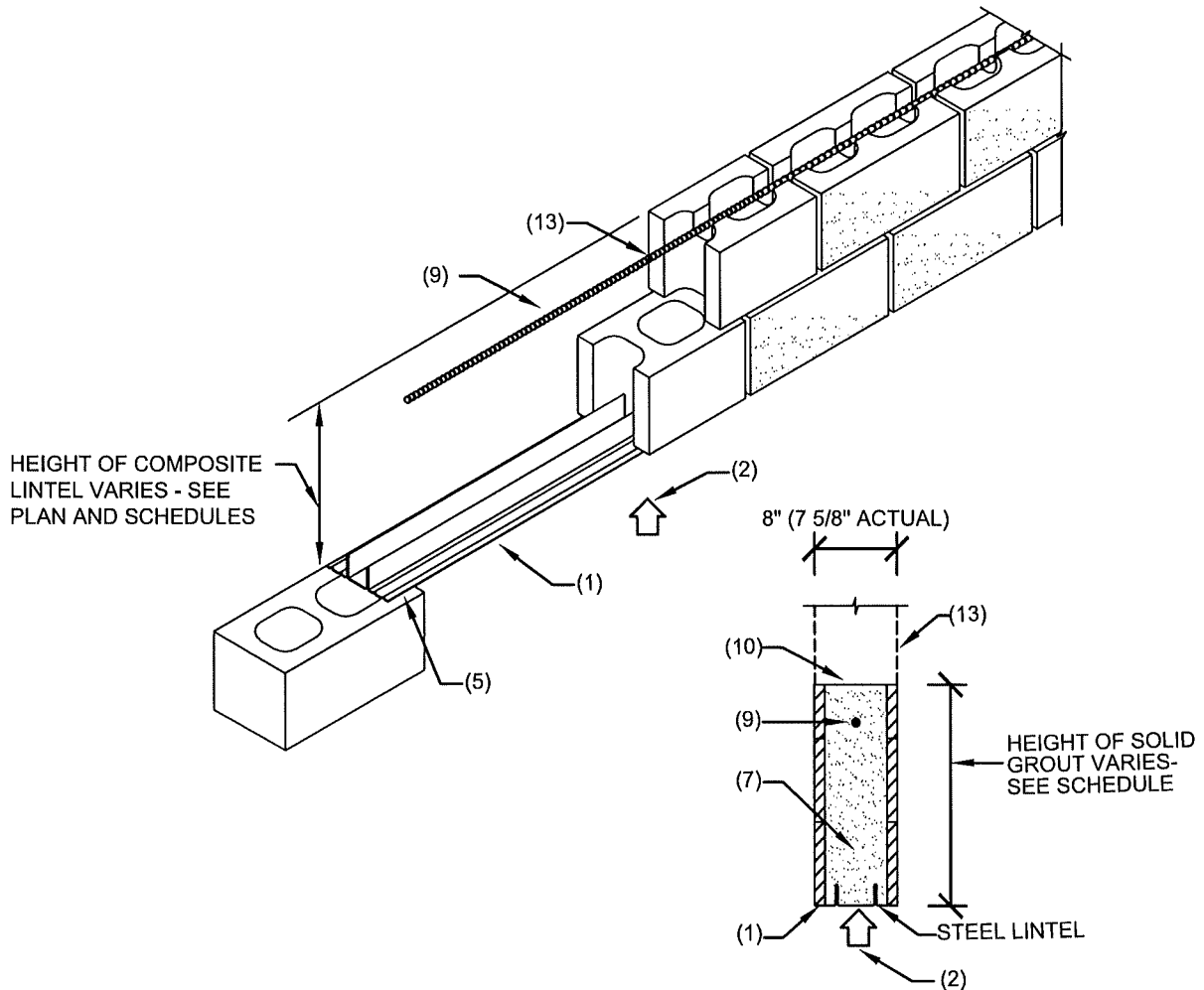
1.	PRODUCT NAME (PATENT NO. 5465538); PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40 ksi).	14.	A #5 REINFORCING BAR(S) GRADE 40 IS TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES ON 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.	BEARING EACH END SHALL BE 3" +/- 1/2". BEARING SHALL BE ON A MINIMUM 8" DEEP GROUTED CELL PER THE STANDARD BUILDING CODE.		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 CONSTRUCTION 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.		PS8(L-2) STEEL LINTELS NOTE: NO SCALE 16 GAGE IS .060 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, EXCEPT 8" COMPOSITE LINTELS WHICH ARE SET TO L/240 [LIVE LOAD] AND L/180 [DEAD + LIVE LOAD].		
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 W/O STIRRUPS

INDICATES HEIGHT OF GROUT

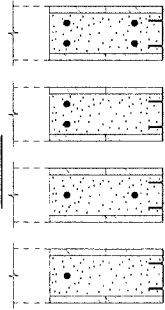
PS8 - 16" (L-2)



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

PS8 Lintels

8" inch block width

WITHOUT STIRRUPS (L2)

LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

Lateral Load Table 3000 psi grout

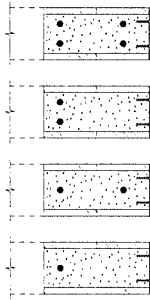
--- ALL LOADS ARE SUPERIMPOSED ---

SPAN (ft)	PS8-8" #5 top	PS8-8" #5 top&bot	PS8-12" #5 top	PS8-12" #5 top&bot	PS8-16" #5 top	PS8-16" #5 top&bot	PS8-20" #5 top	PS8-20" #5 top&bot	PS8-24" #5 top	PS8-24" #5 top&bot	PS8-32" #5 top	PS8-32" #5 top&bot	PS8-40" #5 top	PS8-40" #5 top&bot	PS8-48" #5 top	PS8-48" #5 top&bot	SPAN (ft)
1'-6"	9008	9008	9850	9850	10716	10716	8029	8029	8649	8649	9908	9908	8996	9089	9997	10140	1'-6"
2'-2"	5763	5763	6819	6819	7418	7418	6072	6072	7027	7027	7913	8254	8996	9089	9997	10140	2'-2"
2'-8"	3804	3804	4628	4730	5378	5527	6072	6270	7027	7027	7913	8254	8996	9089	9997	10140	2'-8"
3'-2"	2698	2698	3282	3354	3814	3920	4306	4446	4766	4940	5611	5853	6380	6688	7090	7461	3'-2"
4'-0"	1691	1716	2057	2102	2390	2457	2699	2786	2987	3096	3517	3669	3998	4191	4443	4676	4'-0"
4'-6"	1336	1356	1625	1661	1889	1941	2132	2202	2360	2446	2779	2899	3159	3312	3511	3695	4'-6"
5'-2"	1013	1029	1233	1260	1433	1472	1618	1670	1790	1856	2108	2199	2397	2512	2663	2803	5'-2"
6'-2"	711	722	865	884	1006	1034	1135	1172	1257	1303	1480	1544	1682	1763	1869	1967	6'-2"
7'-0"	552	560	672	686	781	802	881	910	975	1011	1148	1198	1306	1369	1451	1527	7'-0"
8'-0"	423	429	514	526	598	614	675	697	747	774	879	917	1000	1048	1111	1169	8'-0"
9'-2"	322	327	392	400	455	468	514	531	569	590	670	699	761	798	846	890	9'-2"
10'-0"	271	275	329	336	382	393	432	446	478	495	563	587	640	671	711	748	10'-0"
11'-2"	217	220	264	270	307	315	346	358	383	397	451	471	513	538	570	600	11'-2"
12'-0"	188	191	229	234	266	273	300	310	332	344	391	408	444	466	494	520	12'-0"
12'-8"	169	171	205	210	238	245	269	278	298	309	351	366	399	418	443	466	12'-8"
13'-4"	152	154	185	189	215	221	243	251	269	279	317	330	360	377	400	421	13'-4"
14'-0"	138	140	168	172	195	201	220	227	244	253	287	299	326	342	363	382	14'-0"
16'-0"			129	131	149	154	169	174	187	194	220	229	250	262	278	292	16'-0"
18'-0"			102	104	118	121	133	138	148	153	174	181	197	207	219	231	18'-0"
18'-8"					110	113	124	128	137	142	161	168	184	192	204	215	18'-8"
20'-8"					90	92	101	104	112	116	132	137	150	157	166	175	20'-8"
22'-8"					74	77	84	87	93	96	110	114	125	131	138	146	22'-8"
24'-0"					68	71	77	81	86	90	102	108	116	124	130	140	24'-0"
26'-0"							66	69	73	77	87	92	99	106	111	119	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.





By: sws

Date: 1/2024

chk: gcs

PS8 Lintels

8" inch block width

WITHOUT STIRRUPS (L2)

LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

Lateral Load Table 3000 psi grout

--- ALL LOADS ARE SUPERIMPOSED ---

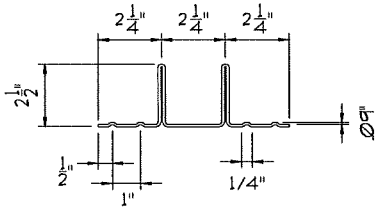
SPAN (ft)	PS8-8" #5 top	PS8-8" #5 top&bot	PS8-12" #5 top	PS8-12" #5 top&bot	PS8-16" #5 top	PS8-16" #5 top&bot	PS8-20" #5 top	PS8-20" #5 top&bot	PS8-24" #5 top	PS8-24" #5 top&bot	PS8-32" #5 top	PS8-32" #5 top&bot	PS8-40" #5 top	PS8-40" #5 top&bot	PS8-48" #5 top	PS8-48" #5 top&bot	SPAN (ft)
28'-0"							57	59	63	66	75	79	86	91	95	103	28'-0"
30'-0"							50	52	55	58	65	69	75	80	83	89	30'-0"
32'-0"											57	61	65	70	73	79	32'-0"
34'-0"													58	62	65	70	34'-0"
36'-0"															58	62	36'-0"
38'-0"																	38'-0"
40'-0"																	40'-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:

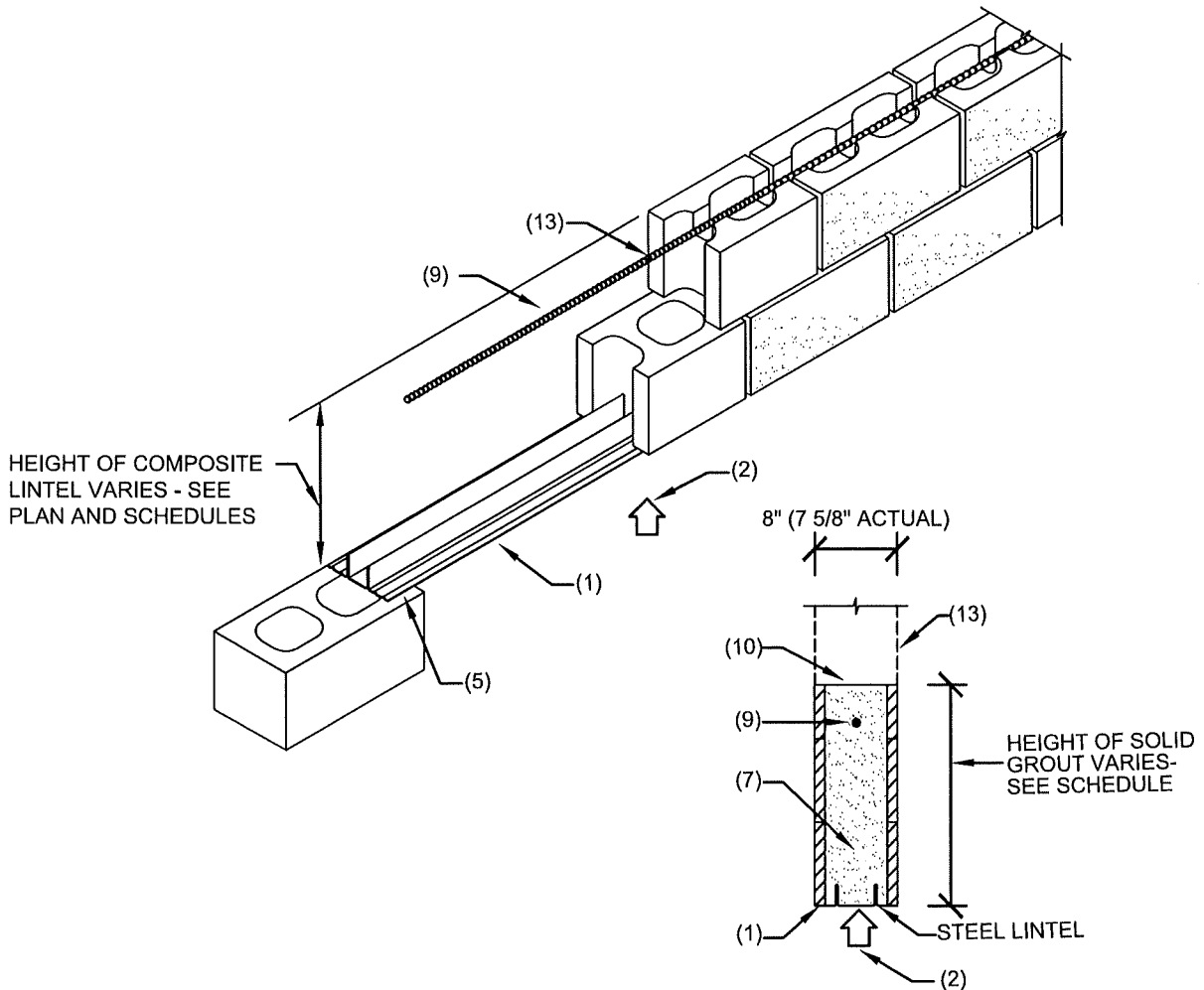
1.	PRODUCT NAME (PATENT NO. 5465538); PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40 ksi).	14.	A #5 REINFORCING BAR (GRADE 40) IS TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES ON 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.	BEARING EACH END SHALL BE 3" +/- 1/2". BEARING SHALL BE ON A MINIMUM 8" DEEP GROUTED CELL PER THE STANDARD BUILDING CODE.		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 CONSTRUCTION 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.		PS8(L-2) STEEL LINTELS NOTE: NO SCALE 16 GAGE IS .060 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 INCREASE 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.		

Powers Steel Product Lintel (Lateral)

LINTEL DESCRIPTION W/O STIRRUPS

INDICATES HEIGHT OF GROUT

PS8 - 16" (L-2)



S.E. CONSULTANTS, INC.

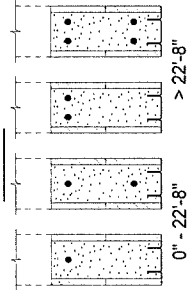


5800 E. THOMAS ROAD, SUITE 104
SCOTTSDALE, ARIZONA 85251
(480) 946-2010 FAX: (480) 946-1909

By: sws

Date: 1/2024

chk: gcs



PS8 Lintels

8" inch block width

WITHOUT STIRRUPS (L2)

LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

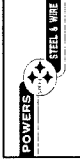
Uplift Load Table 3000 psi grout

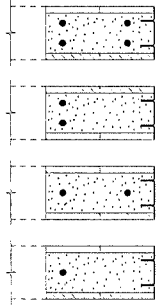
--- ALL LOADS ARE SUPERIMPOSED ---

SPAN (ft)	PS8-8" #5 top	PS8-8" #5 top&bot	PS8-12" #5 top	PS8-12" #5 top&bot	PS8-16" #5 top	PS8-16" #5 top&bot	PS8-20" #5 top	PS8-20" #5 top&bot	PS8-24" #5 top	PS8-24" #5 top&bot	PS8-32" #5 top	PS8-32" #5 top&bot	PS8-40" #5 top	PS8-40" #5 top&bot	PS8-48" #5 top	PS8-48" #5 top&bot	SPAN (ft)
1'-6"	10411	10411	12358	12358	14334	14334	11330	11330	12724	12724	12644	12644					1'-6"
2'-2"	7218	7218	8571	8571	9945	9945	11330	11330	12724	12724	12644	12644					2'-2"
2'-8"	4835	4835	6974	6974	8093	8093	9222	9222	10358	10358	12644	12644					2'-8"
3'-2"	3439	3439	5881	5881	6826	6826	7779	7779	8738	8738	10669	10669	12611	12611	14561	14561	3'-2"
4'-0"	2169	2169	3742	3742	5044	5044	6177	6177	6939	6939	8475	8475	10019	10019	11570	11570	4'-0"
4'-6"	1721	1721	2967	2967	4000	4000	5041	5041	6089	6089	7548	7548	8925	8925	10307	10307	4'-6"
5'-2"	1314	1314	2264	2264	3051	3051	3845	3845	4644	4644	6253	6253	7795	7795	9003	9003	5'-2"
6'-2"	933	933	1605	1605	2162	2162	2725	2725	3291	3291	4430	4430	5575	5575	6726	6726	6'-2"
7'-0"	732	732	1257	1257	1694	1694	2134	2134	2577	2577	3468	3468	4365	4365	5265	5265	7'-0"
8'-0"	569	569	975	975	1313	1313	1654	1654	1997	1997	2687	2687	3382	3382	4079	4079	8'-0"
9'-2"	442	442	755	755	1016	1016	1280	1280	1546	1546	2079	2079	2616	2616	3155	3155	9'-2"
10'-0"	377	377	643	643	865	865	1089	1089	1315	1315	1769	1769	2226	2226	2684	2684	10'-0"
11'-2"	309	309	526	526	707	707	891	891	1075	1075	1446	1446	1818	1818	2193	2193	11'-2"
12'-0"	273	273	462	462	622	622	783	783	945	945	1270	1270	1597	1597	1926	1926	12'-0"
12'-8"	248	248	420	420	565	565	711	711	858	858	1154	1154	1451	1451	1749	1749	12'-8"
13'-4"	228	228	384	384	517	517	650	650	785	785	1055	1055	1326	1326	1599	1599	13'-4"
14'-0"	210	210	354	354	475	475	598	598	721	721	969	969	1219	1219	1469	1469	14'-0"
16'-0"			283	283	380	380	478	478	576	576	774	774	973	973	1172	1172	16'-0"
18'-0"			235	235	315	315	396	396	477	477	640	640	804	804	969	969	18'-0"
18'-8"					298	298	374	374	451	451	605	605	760	760	915	915	18'-8"
20'-8"					256	256	321	321	387	387	519	519	651	651	784	784	20'-8"
22'-8"					224	224	281	281	339	339	454	454	570	570	686	686	22'-8"
24'-0"					301	301	410	410	497	497	674	674	852	852	1031	1031	24'-0"
26'-0"							362	362	439	439	595	595	751	751	908	908	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.





By: sws

Date: 1/2024

chk: gcs

PS8 Lintels

8" inch block width

WITHOUT STIRRUPS (L2)

LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT)

Uplift Load Table 3000 psi grout

--- ALL LOADS ARE SUPERIMPOSED ---

SPAN (ft)	PS8-8" #5 top	PS8-8" #5 top&bot	PS8-12" #5 top	PS8-12" #5 top&bot	PS8-16" #5 top	PS8-16" #5 top&bot	PS8-20" #5 top	PS8-20" #5 top&bot	PS8-24" #5 top	PS8-24" #5 top&bot	PS8-32" #5 top	PS8-32" #5 top&bot	PS8-40" #5 top	PS8-40" #5 top&bot	PS8-48" #5 top	PS8-48" #5 top&bot	SPAN (ft)
28'-0"							324	324	393	393	531	531	671	671	811	811	28'-0"
30'-0"							293	293	355	355	480	480	606	606	733	733	30'-0"
32'-0"											439	439	554	554	669	669	32'-0"
34'-0"													510	510	616	616	34'-0"
36'-0"															571	571	36'-0"
38'-0"																	38'-0"
40'-0"																	40'-0"

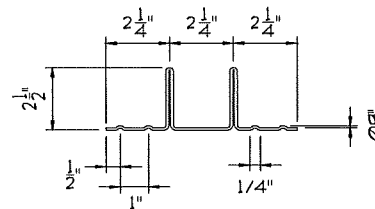
Note: Above loads include 1/3 increase for wind.

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. 5465538); 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).	14.	A #5 REINFORCING BAR (GRADE 40) IS TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES ON 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: <u>POWERS STEEL</u> 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.	BEARING EACH END SHALL BE 3" +/- 1/2". BEARING SHALL BE ON A MINIMUM 8" DEEP GROUTED CELL PER THE STANDARD BUILDING CODE.		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 CONSTRUCTION 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.		
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 INCREASE 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.		



PS8(L-2) STEEL LINTELS

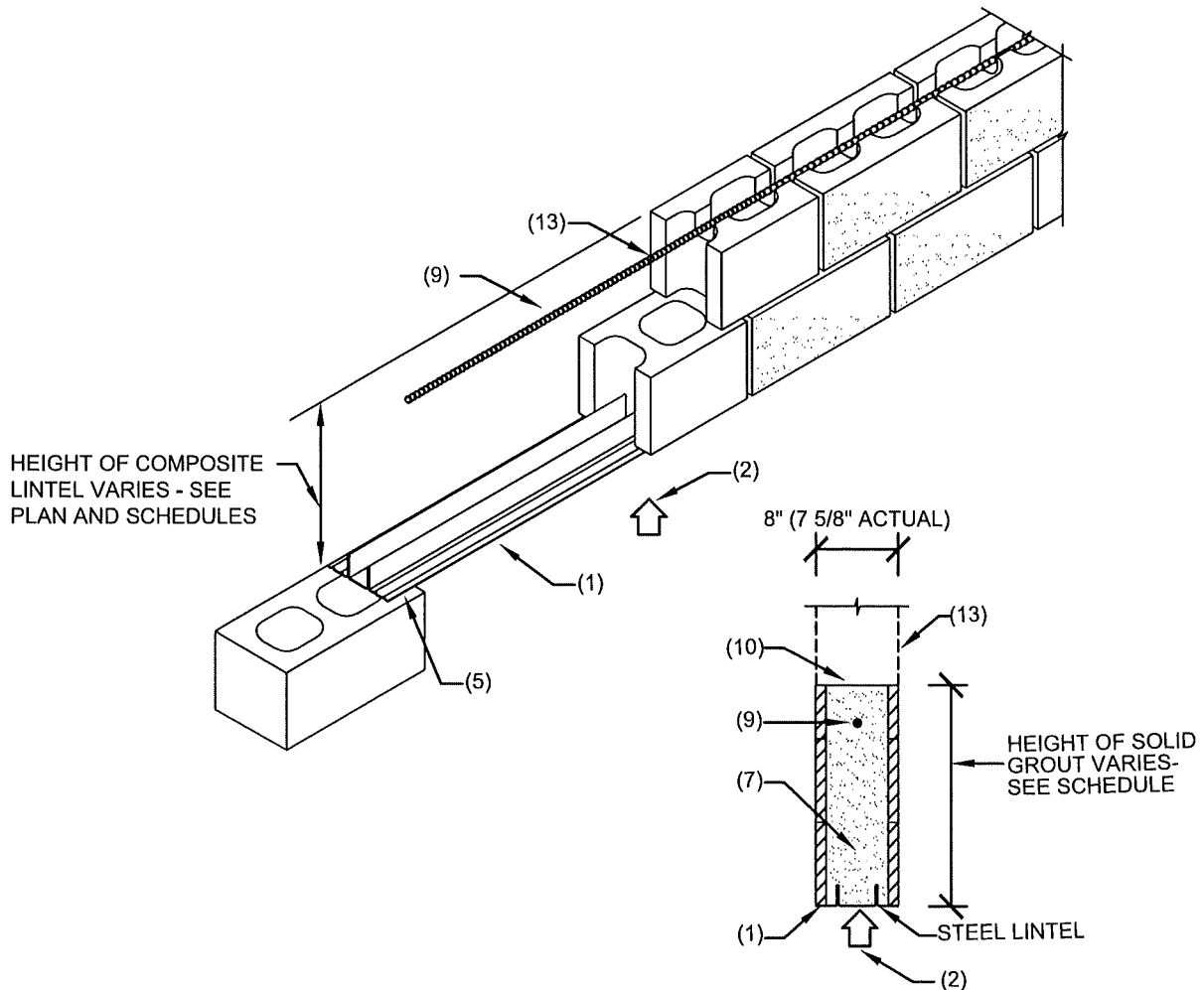
NOTE: NO SCALE
16 GAGE IS .060 INCHES THICK.

Powers Steel Product Lintel (Uplift)

LINTEL DESCRIPTION W/O STIRRUPS

INDICATES HEIGHT OF GROUT

PS8 - 16" (L-2)



S.E. CONSULTANTS, INC.



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