

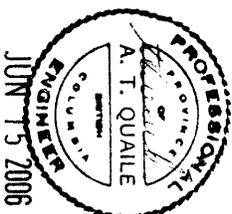
Louisiana-Pacific Corp
LP LVL Column Design Table

2950Fb-2.0E
 Limit States Design
 Imperial Units

Column Length (ft)	Maximum Factored Axial Load (lb)									
	Column Dimensions									
	3-1/2 x 3-1/2"	3-1/2 x 5-1/4"	3-1/2 x 7"	3-1/2 x 9-1/2"	5-1/4 x 5-1/4"	5-1/4 x 7"	5-1/4 x 9-1/2"	7 x 7"	7 x 9-1/2"	
6	16630	24940	33260	45140	49710	66280	89950	97820	132760	
7	14090	21130	28170	38230	45670	60900	82650	93360	126710	
8	11850	17770	23700	32160	41510	55350	75120	88380	119940	
9	9940	14910	19880	26980	37420	49890	67710	83030	112680	
10	8340	12510	16680	22640	33530	44710	60680	77500	105180	
12	5900	8840	11790	16000	26660	35550	48240	66520	90280	
14	4210	6320	8430	11430	21090	28130	38170	56340	76470	
16					16700	22270	30220	47400	64330	
18					13260	17690	24000	39770	53970	
20					10590	14110	19160	33360	45270	
22								28020	38020	
24								23580	32000	

Notes:

- Values have been calculated in accordance with CSA O86-01 and the 2005 National Building Code of Canada (Limit States Design).
- Values are for standard term loads and dry service conditions.
- The table has been prepared using the following assumptions:
 - The column is braced at the ends only, therefore the column length = the effective length.
 - The column is subjected to a simple axial load. The calculated values allow for the worst case of the following eccentric load cases: 1/6 of the column width, or 1/6 of the column depth. The eccentricity is measured from centreline of column to centreline of axial load.
 - The column is not exposed to any lateral loads. For other conditions refer to CSA O86.
- The table applies to solid one-piece columns that have been manufactured by LP by glue-laminating 1-3/4" thick LVL in accordance with CSA O86.



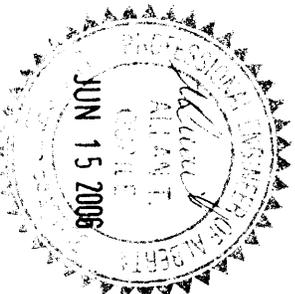
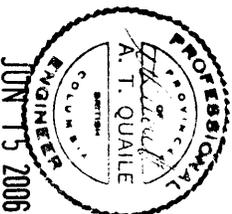
Louisiana-Pacific Corp
LP LVL Built-up Column Design Table
Fastened with Nails

2950Fb-2.0E
Limit States Design
Imperial Units

Column Length (ft)	Maximum Factored Axial Load (lb)						
	Column Dimensions						
	(2) 1.75 x 3.5"	(2) 1.75 x 5.25"	(2) 1.75 x 7"	(2) 1.75 x 9.5"	(3) 1.75 x 5.25"	(3) 1.75 x 7"	(3) 1.75 x 9.5"
6	11660	17500	23330	31660	35920	47890	65000
7	9720	14580	19440	26380	32710	43620	59200
8	8050	12070	16100	21840	29430	39250	53260
9	6650	9980	13310	18060	26250	34990	47490
10	5510	8300	11010	14940	23260	31020	42090
12	3800	5700	7600	10310	18110	24140	32770
14	2660	3990	5320	7220	14050	18740	25430
16					10930	14570	19780
18					8540	11390	15460
20					6730	8970	12170
22							
24							

Notes:

- Values have been calculated in accordance with CSA O86-01 and the 2005 National Building Code of Canada (Limit States Design).
- Values are for standard term loads and dry service conditions.
- The table has been prepared using the following assumptions:
 - The column is braced at the ends only, therefore the column length = the effective length.
 - The column is subjected to a simple axial load. The calculated values allow for the worst case of the following eccentric load cases:
 - Parallel to the wide face of the laminations = 1/6 of the wide face of the individual lamination.
 - Perpendicular to the wide face of the laminations = 1/6 of the thickness of the individual laminations.
 The eccentricity is measured from centreline of column to centreline of axial load.
 - The column is not exposed to any lateral loads. For other conditions refer to CSA O86.
- The table applies to built-up columns that have been fastened together with nails as shown in Figure 1.
- No splicing is permitted. All plies must extend the full length of the column.



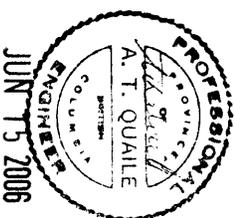
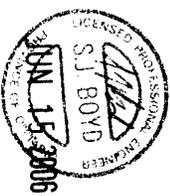
Louisiana-Pacific Corp
LP LVL Built-up Column Design Table
Fastened with 1/4" diameter Simpson SDS Screws

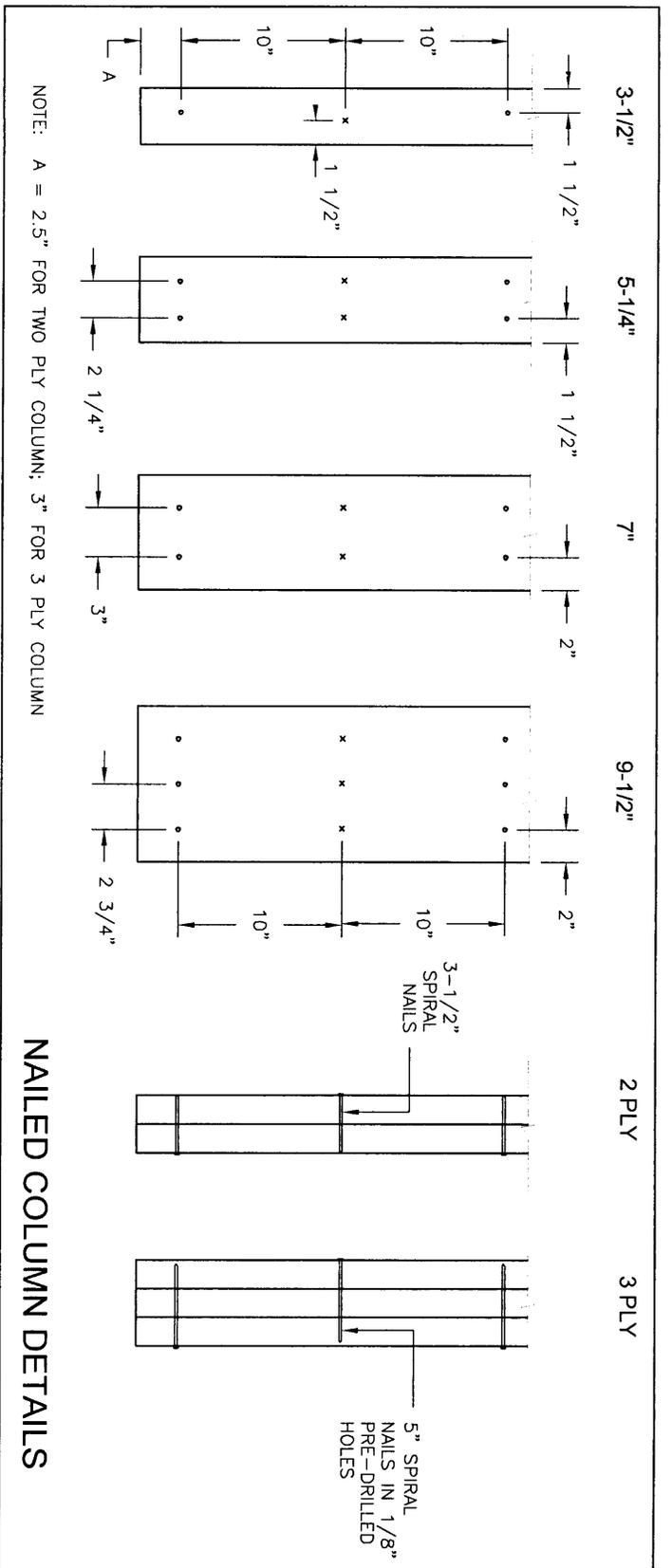
2950Fb-2.0E
Limit States Design
Imperial Units

Column Length (ft)	Maximum Factored Axial Load (lb)						
	Column Dimensions						
	(2) 1.75 x 3.5"	(2) 1.75 x 5.25"	(2) 1.75 x 7"	(2) 1.75 x 9.5"	(3) 1.75 x 5.25"	(3) 1.75 x 7"	(3) 1.75 x 9.5"
6	13160	19460	26320	35570	39410	53330	72040
7	11030	16310	22060	29810	36060	48780	65900
8	9180	13560	18350	24790	32600	44080	59560
9	7610	11240	15230	20560	29190	39480	53350
10	6310	9300	12630	17050	25980	35140	47470
12	4370	6430	8740	11790	20340	27530	37190
14	3070	4500	6130	8270	15830	21460	28970
16					12330	16740	22590
18					9640	13110	17680
20					7590	10330	13930
22							
24							

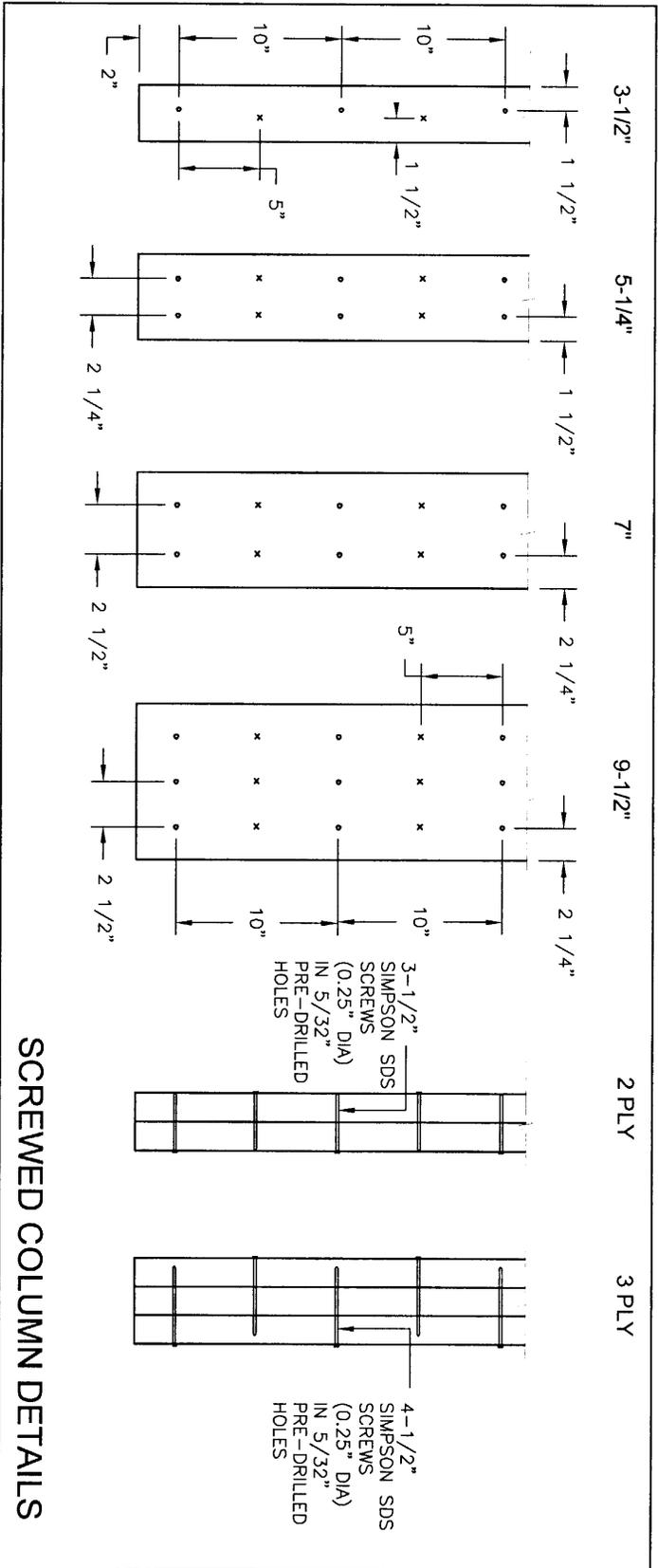
Notes:

- Values have been calculated in accordance with CSA O86-01 and the 2005 National Building Code of Canada (Limit States Design).
- Values are for standard term loads and dry service conditions.
- The table has been prepared using the following assumptions:
 - The column is braced at the ends only, therefore the column length = the effective length.
 - The column is subjected to a simple axial load. The calculated values allow for the worst case of the following eccentric load cases:
 - Parallel to the wide face of the laminations = 1/6 of the wide face of the individual lamination.
 - Perpendicular to the wide face of the laminations = 1/6 of the thickness of the individual laminations.
 The eccentricity is measured from centreline of column to centreline of axial load.
 - The column is not exposed to any lateral loads. For other conditions refer to CSA O86.
- The table applies to built-up columns that have been fastened together with Simpson SDS Screws as shown in Figure 1.
- No splicing is permitted. All piles must extend the full length of the column.





NAILED COLUMN DETAILS



SCREWED COLUMN DETAILS

FIGURE 1. FASTENING DETAILS FOR LP LVL BUILT-UP COLUMNS

