

# COLUMNS: 3100F<sub>b</sub> - 2.0E (Supplement to Canadian Users Guide)

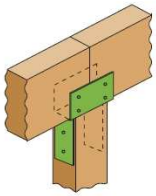
## ALLOWABLE FACTORED AXIAL LOADS (LBS)

Column Length (ft)	3½" x 3½"	3½" x 4¾"	3½" x 5½"	3½" x 7¼"	3½" x 8¾"
3	30229	34967	40012	46082	49731
4	26930	31239	35905	41677	45258
5	23188	27036	31296	36727	40209
6	19510	22905	26741	31773	35097
7	16219	19180	22590	27174	30281
8	13422	15984	18981	23097	25947
9	11104	13309	15923	19577	22154
10	9201	11093	13362	16581	18885
12	6365	7754	9450	11913	13719
14	4464	5482	6744	8610	10005

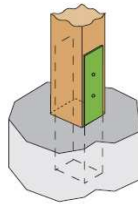
1. Loads are based on the allowable crushing of the LVL material, i.e., steel bearing connections.

## COLUMN DETAILS

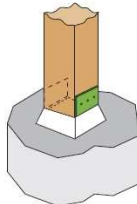
BEAM ON COLUMN CAP



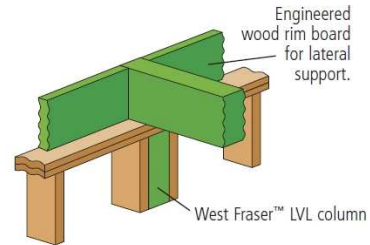
COLUMN BASE



ELEVATED COLUMN BASE



BEAM ON COLUMN



## ALLOWABLE FACTORED AXIAL LOADS (LBS) – WOOD PLATE BEARING CONNECTIONS

Column Length (ft)	3½" x 3½"	3½" x 4¾"	3½" x 5½"	3½" x 7¼"	3½" x 8¾"
3 – 9	7526	9408	11827	15590	18549
10	7526	9408	11827	15590	18549
12	6365	7754	9450	11913	13719
14	4464	5482	6744	8610	10005

1. Loads are based on the allowable crushing of a wood plate (SPF, any grade),  $F_{CP} = 768$  psi.

## GENERAL NOTES

- Tables apply to solid, one-piece members only.
- Tables assumes that columns are unbraced, except at column ends.
- Column members to be used in dry service conditions only.
- Column length is the distance between the centers of restraining members.
- Tables include an eccentricity equal to ¼ of the larger column dimension (thickness or width).
- Loads are based on simple axial loaded columns. For side loads or other combined bending and axial loads, see the provisions of CSA Standard 086-09.
- Factored resistances are based on standard term loading.

# COLUMNS: 3000F<sub>b</sub> – 1.8E (Supplement to Canadian Users Guide)

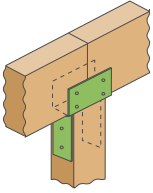
## ALLOWABLE FACTORED AXIAL LOADS (LBS)

Column Length (ft)	3½" x 3½"	3½" x 4¾"	3½" x 5½"	3½" x 7¼"	3½" x 8½"
3	29528	35645	42891	52930	59895
4	26678	32173	38688	47748	54072
5	23161	27939	33629	41606	47232
6	19503	23568	28442	35350	40283
7	16124	19541	23671	29592	33872
8	13219	16076	19558	24602	28289
9	10814	13200	16129	20413	23576
10	8856	10849	13312	16947	19653
12	5993	7390	9137	11753	13729
14	4132	5120	6367	8256	9701

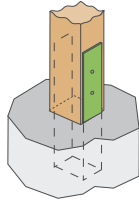
1. Loads are based on the allowable crushing of the LVL material, i.e., steel bearing connections.

## COLUMN DETAILS

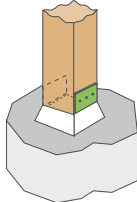
BEAM ON COLUMN CAP



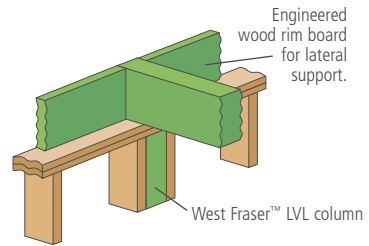
COLUMN BASE



ELEVATED COLUMN BASE



BEAM ON COLUMN



## ALLOWABLE FACTORED AXIAL LOADS (LBS) – WOOD PLATE BEARING CONNECTIONS

Column Length (ft)	3½" x 3½"	3½" x 4¾"	3½" x 5½"	3½" x 7¼"	3½" x 8½"
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10	7526	9408	11827	15590	18547
12	5993	7390	9137	11753	13729
14	4132	5120	6367	8256	9701

1. Loads are based on the allowable crushing of a wood plate (SPF, any grade),  $F_{CP} = 768$  psi.

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- Tables apply to solid, one-piece members only.
- Tables assumes that columns are unbraced, except at column ends.
- Column members to be used in dry service conditions only.
- Column length is the distance between the centers of restraining members.
- Tables include an eccentricity equal to 1/6 of the larger column dimension (thickness or width).
- Loads are based on simple axial loaded columns. For side loads or other combined bending and axial loads, see the provisions of CSA Standard 086-09.
- Factored resistances are based on standard term loading.