

# Post-Simple Column

Digital Canal  
Project: unnamed  
Job:  
Client:

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15:36:40 09/21/09  
Designed by: auderer  
Checked by: \_\_\_\_\_

## Timber Design 1 - Option 1 - Check of Member 1 - 6x6 ✓

### Critical Design Checks

	<i>Critical Reaction</i> <i>lb</i>	<i>Axial</i> <i>psi</i>	<i>Bending - X</i> <i>psi</i>	<i>Bending - Y</i> <i>psi</i>	<i>Shear</i> <i>psi</i>	<i>LL Defl.</i> <i>in</i>	<i>TL Defl.</i> <i>in</i>
Gov. Value	650	-158.678	-562.585	0	29.868	-0.0982	-0.0982
Allowable	5156.59	644.936	1194.51	0	272	0.3333	0.5
% of Allow.	13 ✓	25 ✓	47 ✓	0 ✓	11 ✓	29 ✓	19 ✓
Location	0	0	0	0	0.458333	5.78465	5.78465

#### Notes:

- Member has an actual/allowable ratio in span 1 of 64 ✓%.
- Design is governed by combined stress NDS 3.9-3.
- Governing load combination is Dead+Wind in Pos X.
- Axial capacity of member is 9468.25 lb.
- Maximum hanger forces: 650 lb (Left) and 390 lb (Right).

### Minimum Bearing

<i>Span</i>	<i>Actual Length</i> <i>ft</i>	<i>Left Support Min. Bearing</i> <i>in</i>	<i>Right Support Min. Bearing</i> <i>in</i>
Span 1	10	1.5	1.5

#### Notes:

- Locations of maximum stress, moment, etc. are measured from the left end of the member.
- Bearing across full width of beam is required.
- Structural adequacy of supporting members must be confirmed.
- Bearing lengths required may be limited by bearing stress on supporting members.
- A negative reaction indicates that the beam must be fastened to the support to resist uplift.
- See manufacturer's literature for side loaded connection requirements.
- Cantilever deflection allowables are based on twice the span length.
- Timber design is governed by NDS 2005.