

Linteaux supportant un toit – Tableau de dimensionnement

Critères de conception

Portée :	Simple
Charge :	Charge permanente = 15 lbf/pi ²
Limites de flèche :	L/480 sous la charge de neige et L/360 sous la charge totale
Supports latéraux :	Aux points d'appui et aux 2 pieds le long de la rive supérieure
Soffite :	Inférieur ou égal à 24 pouces
Bâtiment :	Partie 9 du CNB 2015

États limites de service et états limites ultimes

Linteaux 24F-1.9E

Portée du toit (pi)	Charge de neige = 30 lbf/pi ²				Charge de neige = 40 lbf/pi ²			
	Portée libre du linteau (pi)				Portée libre du linteau (pi)			
	0 à 5	6	8	10	0 à 5	6	8	10
32	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"
34	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"
36	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"
38	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"
40	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"

Portée du toit (pi)	Charge de neige = 50 psf lbf/pi ²				Charge de neige = 75 psf lbf/pi ²			
	Portée libre du linteau (pi)				Portée libre du linteau (pi)			
	0 à 5	6	8	10	0 à 5	6	8	10
32	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 11-7/8"
34	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 14"
36	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	-
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 14"
38	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	-
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/4" x 9-1/2"	5-1/4" x 9-1/2"	5-1/4" x 11-7/8"	5-1/4" x 14"
40	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	-
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 14"

Notes :

- Ce tableau s'applique à des linteaux respectant les critères de conception ci-dessus et est basé sur une condition d'utilisation en milieu sec, une durée d'application normale de la charge et des charges uniformément distribuées.
- La longueur d'appui minimale est de 3 pouces, sauf pour les dimensions ombragées pour lesquelles cette longueur est de 4-1/2 pouces.
- Les linteaux peuvent être constitués de plusieurs plis, à condition que les plis individuels soient solidement attachés les uns aux autres. Pour les linteaux de 2 plis et 3 plis 1-3/4 pouce, utiliser respectivement les dimensions de linteau pour une largeur de 3-1/2 et 5-1/2 pouces.