



ERRATA
to the 2018 Edition of
the Wood Frame Construction Manual (WFCM) for One- and Two-Family Dwellings
 (web version dated 11-17)

Page Revision

63 Replace tabular values in Table 2.2A with revised Table 2.2A as shown below.
 NOTE: Footnotes to Table 2.2A remain unchanged.

Table 2.2A Uplift Connection Loads from Wind

(For Roof-to-Wall, Wall-to-Wall, and Wall-to-Foundation)

Wind Speed 3-second gust (mph) (See Figure 1.1)		90	95	100	105	110	115	120	130	140	150	160	170	180	195
Roof/Ceiling Assembly Design Dead Load	Roof Span (ft)	Unit Connection Loads (plf) ^{1,2,3,4,5,6,7}													
0 psf ⁸	12	80	90	99	109	120	131	143	168	195	223	254	287	322	378
	24	132	147	163	180	197	215	235	275	319	367	417	471	528	620
	36	184	205	227	250	275	300	327	384	445	511	581	656	736	864
	48	236	263	291	321	353	385	420	492	571	656	746	842	944	1108
	60	288	321	356	392	430	471	512	601	697	800	911	1028	1153	1353
10 psf	12	32	42	51	61	72	83	95	120	147	175	206	239	274	330
	24	48	63	79	96	113	131	151	191	235	283	333	387	444	536
	36	64	85	107	130	155	180	207	264	325	391	461	536	616	744
	48	80	107	135	165	197	229	264	336	415	500	590	686	788	952
	60	96	129	164	200	238	279	320	409	505	608	719	836	961	1161
15 psf	12	8	18	27	37	48	59	71	96	123	151	182	215	250	306
	24	6	21	37	54	71	89	109	149	193	241	291	345	402	494
	36	4	25	47	70	95	120	147	204	265	331	401	476	556	684
	48	2	29	57	87	119	151	186	258	337	422	512	608	710	874
	60	-	33	68	104	142	183	224	313	409	512	623	740	865	1065
20 psf	12	-	-	3	13	24	35	47	72	99	127	158	191	226	282
	24	-	-	-	12	29	47	67	107	151	199	249	303	360	452
	36	-	-	-	10	35	60	87	144	205	271	341	416	496	624
	48	-	-	-	9	41	73	108	180	259	344	434	530	632	796
	60	-	-	-	8	46	87	128	217	313	416	527	644	769	969
25 psf	12	-	-	-	-	-	11	23	48	75	103	134	167	202	258
	24	-	-	-	-	-	5	25	65	109	157	207	261	318	410
	36	-	-	-	-	-	-	27	84	145	211	281	356	436	564
	48	-	-	-	-	-	-	30	102	181	266	356	452	554	718
	60	-	-	-	-	-	-	32	121	217	320	431	548	673	873

Page Revision

65 In Table 2.2C revise Footnotes 3 and 4 as shown below.

³ For overhangs located in Zone 2 per the figures of Table 2.4, tabulated uplift connector loads are permitted to be multiplied by 0.77 ~~0.74~~.

⁴ Tabulated outlooker uplift connection loads are calculated using C&C pressure coefficients assuming a roof pitch range greater than 1.5:12 and less than or equal 6:12. For roof pitches greater than 6:12, tabulated values are permitted to be multiplied by 0.86 ~~0.85~~.

172-177 Replace uplift tabular values in Tables 3.4 Exposures B and C as shown in highlighted columns below.

NOTE: Footnotes remain unchanged.

Table 3.4 Rafter/Truss Framing to Wall Connection Requirements for Wind Loads Exposure B

(Dead Load Assumptions: Roof/Ceiling Assembly DL = 15 psf)

Wind Speed 3-second gust (mph) (See Figure 1.1)		90			95			100			105		
Rafter/ Truss Spacing (in.)	Roof Span (ft)	Required Capacity of Connection (lbs.) ¹											
		U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴
12	12	8	53	48R	18	59	48R	27	66	48R	37	72	48R
	16	8			19			30			43		
	20	7			20			34			48		
	24	6			21			37			54		
	28	5			22			40			59		
	32	5			24			44			65		
	36	4			25			47			70		
16	12	11	71	64R	24	79	64R	36	87	64R	50	96	64R
	16	10			25			41			57		
	20	9			26			45			64		
	24	8			28			49			72		
	28	7			30			54			79		
	32	6			32			58			86		
	36	5			33			63			94		
19.2	12	14	85	77R	28	95	77R	44	105	77R	60	116	77R
	16	12			30			49			68		
	20	11			32			54			77		
	24	10			34			59			86		
	28	8			36			64			95		
	32	7			38			70			104		
	36	6			40			75			113		
24	12	17	106	96R	35	118	96R	55	131	96R	75	145	96R
	16	15			37			61			85		
	20	13			40			67			96		
	24	12			42			74			107		
	28	11			45			81			118		
	32	9			47			87			130		
	36	8			50			94			141		

Table 3.4 Rafter/Truss Framing to Wall Connection Requirements for Wind Loads

Exposure B

(Dead Load Assumptions: Roof/Ceiling Assembly DL = 15 psf)

Wind Speed 3-second gust (mph) (See Figure 1.1)		110			115			120			130			140		
Rafter/ Truss Spacing (in.)	Roof Span (ft)	Required Capacity of Connection (lbs.) ¹														
		U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴
12	12	48	79	48R	59	87	48R	71	94	50R	96	111	58R	123	129	68R
	16	56			69			83			113			146		
	20	63			79			96			131			170		
	24	71			89			109			149			193		
	28	79			100			121			167			217		
	32	87			110			134			186			241		
	36	95			120			147			204			265		
16	12	64	106	64R	79	116	64R	95	126	66R	128	148	78R	164	171	90R
	16	74			92			111			151			195		
	20	84			106			128			175			226		
	24	95			119			145			199			258		
	28	105			133			162			223			290		
	32	116			147			179			248			322		
	36	126			160			196			272			354		
19.2	12	77	127	77R	95	139	77R	114	151	79R	153	177	93R	196	206	108R
	16	89			111			133			182			234		
	20	101			127			154			210			271		
	24	114			143			174			239			309		
	28	126			160			194			268			348		
	32	139			176			215			297			386		
	36	152			193			235			326			424		
24	12	96	159	96R	119	173	96R	142	189	99R	192	222	117R	245	257	135R
	16	111			138			167			227			292		
	20	127			159			192			263			339		
	24	142			179			217			299			387		
	28	158			199			243			335			434		
	32	174			220			268			371			482		
	36	190			241			294			408			530		

Table 3.4 Rafter/Truss Framing to Wall Connection Requirements for Wind Loads

Exposure B

(Dead Load Assumptions: Roof/Ceiling Assembly DL = 15 psf)

Wind Speed 3-second gust (mph) (See Figure 1.1)		150			160			170			180			195		
Rafter/ Truss Spacing (in.)	Roof Span (ft)	Required Capacity of Connection (lbs.) ¹														
		U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴
12	12	151	148	78R	182	168	88R	215	190	100R	250	212	112R	306	249	131R
	16	181			218			258			300			368		
	20	211			255			301			351			431		
	24	241			291			345			402			494		
	28	271			328			389			453			557		
	32	301			365			432			504			620		
16	12	202	197	103R	243	224	118R	287	253	133R	333	283	149R	407	333	175R
	16	241			291			344			400			490		
	20	281			339			402			468			574		
	24	321			388			460			536			658		
	28	361			437			518			604			742		
	32	401			486			577			673			827		
19.2	12	242	236	124R	292	269	141R	344	303	159R	400	340	179R	489	399	210R
	16	289			349			413			480			588		
	20	337			407			482			561			689		
	24	385			466			552			643			790		
	28	433			525			622			725			891		
	32	481			583			692			807			992		
24	12	303	295	155R	364	336	177R	430	379	199R	500	425	223R	611	499	262R
	16	362			436			516			600			736		
	20	421			509			603			702			861		
	24	481			582			690			804			987		
	28	541			656			777			906			1114		
	32	602			729			865			1009			1240		
36	36	662			803			953			1112			1367		

Table 3.4 Rafter/Truss Framing to Wall Connection Requirements for Wind Loads

Exposure C

(Dead Load Assumptions: Roof/Ceiling Assembly DL = 15 psf)

Wind Speed 3-second gust (mph) (See Figure 1.1)		90			95			100			105		
Rafter/ Truss Spacing (in.)	Roof Span (ft)	Required Capacity of Connection (lbs.) ¹											
		U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴
12	12	40	74	48R	52	82	48R	66	91	48R	80	100	53R
	16	45			61			77			94		
	20	51			70			89			109		
	24	57			78			100			124		
	28	63			87			112			138		
	32	69			96			124			153		
	36	76			105			135			168		
16	12	53	98	64R	70	110	64R	88	121	64R	107	134	70R
	16	61			81			103			126		
	20	68			93			118			145		
	24	76			104			134			165		
	28	84			116			149			184		
	32	93			128			165			204		
	36	101			140			181			224		
19.2	12	64	118	77R	84	132	77R	105	146	77R	128	161	84R
	16	73			97			124			151		
	20	82			111			142			174		
	24	92			125			160			198		
	28	101			139			179			221		
	32	111			153			198			245		
	36	121			167			217			268		
24	12	79	148	96R	105	164	96R	132	182	96R	160	201	106R
	16	91			122			154			189		
	20	103			139			177			218		
	24	115			156			201			247		
	28	127			174			224			276		
	32	139			192			247			306		
	36	151			209			271			336		

Table 3.4 Rafter/Truss Framing to Wall Connection Requirements for Wind Loads

Exposure C

(Dead Load Assumptions: Roof/Ceiling Assembly DL = 15 psf)

Wind Speed 3-second gust (mph) (See Figure 1.1)		110			115			120			130			140		
Rafter/ Truss Spacing (in.)	Roof Span (ft)	Required Capacity of Connection (lbs.) ¹														
		U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴
12	12	95	110	58R	110	120	63R	127	131	69R	161	154	81R	198	179	94R
	16	112			131			151			193			238		
	20	130			152			175			224			278		
	24	148			173			200			256			318		
	28	166			195			225			289			358		
	32	184			216			249			321			398		
	36	202			237			274			353			438		
16	12	127	147	77R	147	161	84R	169	175	92R	215	205	108R	264	238	125R
	16	150			175			201			257			317		
	20	173			203			234			299			370		
	24	197			231			267			342			423		
	28	221			259			299			385			477		
	32	245			288			333			428			531		
	36	269			316			366			471			584		
19.2	12	152	176	93R	177	193	101R	203	210	110R	258	246	130R	317	286	150R
	16	180			210			241			308			380		
	20	208			243			280			359			444		
	24	237			277			320			410			508		
	28	265			311			359			462			572		
	32	294			345			399			513			637		
	36	323			379			439			565			701		
24	12	190	220	116R	221	241	127R	253	262	138R	322	308	162R	397	357	188R
	16	225			262			302			385			475		
	20	260			304			351			449			555		
	24	296			347			400			513			635		
	28	331			389			449			577			715		
	32	367			432			499			642			796		
	36	403			474			548			706			877		

Table 3.4 Rafter/Truss Framing to Wall Connection Requirements for Wind Loads

Exposure C

(Dead Load Assumptions: Roof/Ceiling Assembly DL = 15 psf)

Wind Speed 3-second gust (mph) (See Figure 1.1)		150			160			170			180			195		
Rafter/ Truss Spacing (in.)	Roof Span (ft)	Required Capacity of Connection (lbs.) ¹														
		U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴	U ^{2,3,5}	L	S ⁴
12	12	238	205	108R	281	233	123R	327	263	138R	375	295	155R	452	346	182R
	16	286			338			393			452			546		
	20	335			396			460			529			640		
	24	383			453			528			607			735		
	28	432			511			596			685			829		
	32	481			569			664			764			924		
	36	530			628			732			842			1019		
16	12	318	273	144R	375	311	163R	435	351	185R	500	394	207R	603	462	243R
	16	382			451			524			602			728		
	20	446			527			614			706			853		
	24	511			604			704			810			979		
	28	576			682			794			914			1106		
	32	641			759			885			1018			1232		
	36	706			837			975			1123			1359		
19.2	12	381	328	172R	450	373	196R	523	421	221R	600	472	248R	724	554	291R
	16	458			541			629			723			873		
	20	535			633			737			847			1024		
	24	613			725			845			972			1175		
	28	691			818			953			1097			1327		
	32	769			911			1062			1222			1479		
	36	848			1004			1171			1347			1631		
24	12	477	410	216R	562	466	245R	653	526	277R	750	590	310R	905	693	364R
	16	572			676			786			903			1092		
	20	669			791			921			1059			1280		
	24	766			907			1056			1214			1469		
	28	864			1023			1192			1371			1659		
	32	962			1139			1327			1527			1849		
	36	1059			1255			1463			1684			2039		

Page Revision

179-180 Replace tabular values in Table 3.4B Exposures B and C as shown below.
 NOTE: Footnotes to Table 3.4B remain unchanged.

Table 3.4B Shear Walls Resisting Uplift and Shear¹ Exposure B
 (Prescriptive Alternative to Table 3.4)

Wind Speed 3-second gust (mph) (See Figure 1.1)				90	95	100	105	110	115	120	130	140	150	160	170	180	195	
Wood Structural Panel Shear Wall Requirements		Top & Bottom of Panel Nailing Requirements		Maximum Roof Span (ft) ^{2,3}														
Sheathing Thickness	Shear Wall Nailing	Rows of Nails	Nail Spacing (in)															
7/16" OSB or 15/32" plywood with species of plies having G≥0.49	8d Common Nails @ 4" panel edge spacing and 12" field edge spacing	1 ⁴	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			3	36	36	36	36	36	28	20	12	-	-	-	-	-	-	
		2 ⁵	6	36	36	36	36	36	28	20	12	-	-	-	-	-	-	-
			4	36	36	36	36	36	36	36	36	36	36	32	24	20	16	12
			3	36	36	36	36	36	36	36	36	36	36	36	36	36	32	24
			3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
7/16" OSB or 15/32" plywood with species of plies having G≥0.49	8d Common Nails @ 6" panel edge spacing and 12" field edge spacing	1 ⁴	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			4	36	36	36	36	36	28	20	12	-	-	-	-	-	-	
		2 ⁵	3	36	36	36	36	36	36	36	36	36	24	20	12	12	-	-
			6	36	36	36	36	36	36	36	36	36	24	20	12	12	-	-
			4	36	36	36	36	36	36	36	36	36	36	36	36	28	24	20
			3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
15/32" OSB or plywood with species of plies having G≥0.49	10d Common Nails @ 6" panel edge spacing and 12" field edge spacing	1 ⁴	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			4	36	36	36	36	36	36	28	16	12	-	-	-	-	-	
		2 ⁵	3	36	36	36	36	36	36	36	36	36	32	24	20	16	12	-
			6	36	36	36	36	36	36	36	36	36	32	24	20	16	12	-
			4	36	36	36	36	36	36	36	36	36	36	36	36	36	32	24
			3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36

Table 3.4B Shear Walls Resisting Uplift and Shear¹ Exposure C
 (Prescriptive Alternative to Table 3.4)

Wind Speed 3-second gust (mph) (See Figure 1.1)				90	95	100	105	110	115	120	130	140	150	160	170	180	195	
Wood Structural Panel Shear Wall Requirements		Top & Bottom of Panel Nailing Requirements		Maximum Roof Span (ft) ^{2,3}														
Sheathing Thickness	Shear Wall Nailing	Rows of Nails	Nail Spacing (in)															
7/16" OSB or 15/32" plywood with species of plies having G≥0.49	8d Common Nails @ 4" panel edge spacing and 12" field edge spacing	1 ⁴	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			3	36	36	24	16	12	-	-	-	-	-	-	-	-	-	
		2 ⁵	6	36	36	24	16	12	-	-	-	-	-	-	-	-	-	-
			4	36	36	36	36	36	36	36	36	32	24	16	12	-	-	-
			3	36	36	36	36	36	36	36	36	36	36	36	36	28	24	20
			3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
7/16" OSB or 15/32" plywood with species of plies having G≥0.49	8d Common Nails @ 6" panel edge spacing and 12" field edge spacing	1 ⁴	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			4	36	36	24	16	12	-	-	-	-	-	-	-	-	-	
		2 ⁵	3	36	36	36	36	36	32	24	16	12	-	-	-	-	-	-
			6	36	36	36	36	36	36	32	24	16	12	-	-	-	-	-
			4	36	36	36	36	36	36	36	36	32	28	20	16	12	-	-
			3	36	36	36	36	36	36	36	36	36	36	36	36	28	24	20
15/32" OSB or plywood with species of plies having G≥0.49	10d Common Nails @ 6" panel edge spacing and 12" field edge spacing	1 ⁴	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			4	36	36	32	24	20	12	-	-	-	-	-	-	-	-	
		2 ⁵	3	36	36	36	36	36	36	36	32	24	16	12	-	-	-	-
			6	36	36	36	36	36	36	36	32	24	16	12	-	-	-	-
			4	36	36	36	36	36	36	36	36	36	36	32	28	20	16	12
			3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	32

Page **Revision**

189-190 Replace uplift tabular values in Table 3.7 Exposures B and C as shown below.
 NOTE: Footnotes to Table 3.7 remain unchanged.

Table 3.7 Header Connection Requirements for Wind Exposure B
 (Dead Load Assumptions: Roof Assembly DL = 15 psf)

Wind Speed 3- second gust (mph) (See Figure 1.1)		90	95	100	105	110	115	120	130	140	150	160	170	180	195														
Roof Span (ft)	Header Span (ft)	Required Capacity of Connection at Each End of Header (lbs) ¹																											
		U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L		
12	2	8	53	18	59	27	66	37	72	48	79	59	87	71	94	96	111	123	129	151	148	182	168	215	190	250	212	306	249
	4	17	106	35	118	55	131	75	145	96	159	119	173	142	189	192	222	245	257	303	295	364	336	430	379	500	425	611	499
	6	25	159	53	178	82	197	112	217	144	238	178	260	213	283	287	333	368	386	454	443	547	504	645	569	749	637	917	748
	8	34	212	71	237	109	262	150	289	193	317	237	347	284	378	383	443	491	514	606	590	729	672	860	758	999	850	1222	998
	10	42	266	88	296	137	328	187	362	241	397	297	434	355	472	479	554	613	643	757	738	911	839	1075	948	1249	1062	1528	1247
	12	51	319	106	355	164	394	225	434	289	476	356	520	426	567	575	665	736	771	909	885	1093	1007	1290	1137	1499	1275	1834	1496
	14	59	372	123	414	191	459	262	506	337	555	415	607	497	661	671	776	859	900	1060	1033	1276	1175	1505	1327	1748	1487	2139	1746
	16	68	425	141	474	218	525	300	578	385	635	475	694	568	756	767	887	981	1028	1212	1181	1458	1343	1720	1516	1998	1700	2445	1995
	18	76	478	159	533	246	590	337	651	433	714	534	781	639	850	862	998	1104	1157	1363	1328	1640	1511	1935	1706	2248	1912	2751	2244
20	84	531	176	592	273	656	375	723	482	794	593	867	710	944	958	1108	1226	1285	1514	1476	1822	1679	2150	1895	2498	2125	3056	2494	
24	2	6	53	21	59	37	66	54	72	71	79	89	87	109	94	149	111	193	129	241	148	291	168	345	190	402	212	494	249
	4	12	106	42	118	74	131	107	145	142	159	179	173	217	189	299	222	387	257	481	295	582	336	690	379	804	425	987	499
	6	18	159	63	178	111	197	161	217	213	238	268	260	326	283	448	333	580	386	722	443	873	504	1035	569	1206	637	1481	748
	8	24	212	84	237	148	262	215	289	285	317	358	347	435	378	598	443	773	514	962	590	1165	672	1380	758	1608	850	1974	998
	10	30	266	105	296	185	328	268	362	356	397	447	434	543	472	747	554	967	643	1203	738	1456	839	1725	948	2010	1062	2468	1247
	12	36	319	126	355	222	394	322	434	427	476	537	520	652	567	896	665	1160	771	1444	885	1747	1007	2069	1137	2412	1275	2962	1496
	14	42	372	147	414	259	459	376	506	498	555	626	607	760	661	1046	776	1354	900	1684	1033	2038	1175	2414	1327	2814	1487	3455	1746
	16	48	425	168	474	296	525	429	578	569	635	716	694	869	756	1195	887	1547	1028	1925	1181	2329	1343	2759	1516	3216	1700	3949	1995
	18	54	478	190	533	332	590	483	651	640	714	805	781	978	850	1344	998	1740	1157	2166	1328	2620	1511	3104	1706	3617	1912	4442	2244
20	60	531	211	592	369	656	536	723	712	794	895	867	1086	944	1494	1108	1934	1285	2406	1476	2911	1679	3449	1895	4019	2125	4936	2494	
36	2	4	53	25	59	47	66	70	72	95	79	120	87	147	94	204	111	265	129	331	148	401	168	476	190	556	212	684	249
	4	8	106	50	118	94	131	141	145	190	159	241	173	294	189	408	222	530	257	662	295	803	336	953	379	1112	425	1367	499
	6	12	159	75	178	141	197	211	217	284	238	361	260	441	283	611	333	795	386	993	443	1204	504	1429	569	1668	637	2051	748
	8	16	212	100	237	188	262	282	289	379	317	481	347	588	378	815	443	1061	514	1324	590	1606	672	1905	758	2223	850	2734	998
	10	20	266	125	296	236	328	352	362	474	397	602	434	735	472	1019	554	1326	643	1655	738	2007	839	2382	948	2779	1062	3418	1247
	12	24	319	150	355	283	394	422	434	569	476	722	520	882	567	1223	665	1591	771	1986	885	2408	1007	2858	1137	3335	1275	4102	1496
	14	28	372	175	414	330	459	493	506	664	555	842	607	1029	661	1427	776	1856	900	2317	1033	2810	1175	3334	1327	3891	1487	4785	1746
	16	32	425	200	474	377	525	563	578	758	635	963	694	1176	756	1631	887	2121	1028	2648	1181	3211	1343	3811	1516	4447	1700	5469	1995
	18	36	478	225	533	424	590	634	651	853	714	1083	781	1323	850	1834	998	2386	1157	2979	1328	3613	1511	4287	1706	5003	1912	6152	2244
20	40	531	250	592	471	656	704	723	948	794	1204	867	1470	944	2038	1108	2651	1285	3310	1476	4014	1679	4764	1895	5558	2125	6836	2494	

Table 3.7 Header Connection Requirements for Wind
(Dead Load Assumptions: Roof Assembly DL = 15 psf)

Exposure C

Wind Speed 3- second gust (mph) (See Figure 1.1)		90	95	100	105	110	115	120	130	140	150	160	170	180	195														
Roof Span (ft)	Header Span (ft)	Required Capacity of Connection at Each End of Header (lbs) ¹																											
		U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L	U ^{2,3,4}	L		
12	2	40	74	52	82	66	91	80	100	95	110	110	120	127	131	161	154	198	179	238	205	281	233	327	263	375	295	452	346
	4	79	148	105	164	132	182	160	201	190	220	221	241	253	262	322	308	397	357	477	410	562	466	653	526	750	590	905	693
	6	119	221	157	247	198	273	240	301	285	331	331	361	380	394	483	462	595	536	715	615	843	700	980	790	1125	885	1357	1039
	8	159	295	210	329	264	364	320	402	380	441	442	482	506	525	644	616	793	714	953	820	1124	933	1306	1053	1500	1181	1810	1385
	10	199	369	262	411	330	455	400	502	474	551	552	602	633	656	805	770	992	893	1192	1025	1405	1166	1633	1316	1874	1476	2262	1732
	12	238	443	315	493	396	547	480	603	569	661	662	723	760	787	967	924	1190	1071	1430	1230	1687	1399	1960	1579	2249	1771	2715	2078
	14	278	516	367	575	461	638	560	703	664	772	773	843	886	918	1128	1078	1388	1250	1668	1435	1968	1632	2286	1843	2624	2066	3167	2425
	16	318	590	420	658	527	729	641	803	759	882	883	964	1013	1049	1289	1232	1587	1428	1907	1640	2249	1865	2613	2106	2999	2361	3620	2771
	18	357	664	472	740	593	820	721	904	854	992	994	1084	1140	1181	1450	1385	1785	1607	2145	1845	2530	2099	2940	2369	3374	2656	4072	3117
	20	397	738	525	822	659	911	801	1004	949	1102	1104	1205	1266	1312	1611	1539	1983	1785	2383	2049	2811	2332	3266	2632	3749	2951	4525	3464
24	2	57	74	78	82	100	91	124	100	148	110	173	120	200	131	256	154	318	179	383	205	453	233	528	263	607	295	735	346
	4	115	148	156	164	201	182	247	201	296	220	347	241	400	262	513	308	635	357	766	410	907	466	1056	526	1214	590	1469	693
	6	172	221	235	247	301	273	371	301	444	331	520	361	600	394	769	462	953	536	1150	615	1360	700	1584	790	1822	885	2204	1039
	8	229	295	313	329	401	364	494	402	591	441	693	482	800	525	1026	616	1270	714	1533	820	1813	933	2112	1053	2429	1181	2938	1385
	10	287	369	391	411	502	455	618	502	739	551	866	602	999	656	1282	770	1588	893	1916	1025	2267	1166	2640	1316	3036	1476	3673	1732
	12	344	443	469	493	602	547	741	603	887	661	1040	723	1199	787	1539	924	1905	1071	2299	1230	2720	1399	3168	1579	3643	1771	4407	2078
	14	401	516	548	575	702	638	865	703	1035	772	1213	843	1399	918	1795	1078	2223	1250	2682	1435	3174	1632	3696	1843	4251	2066	5142	2425
	16	458	590	626	658	802	729	988	803	1183	882	1386	964	1599	1049	2052	1232	2541	1428	3066	1640	3627	1865	4224	2106	4858	2361	5876	2771
	18	516	664	704	740	903	820	1112	904	1331	992	1560	1084	1799	1181	2308	1385	2858	1607	3449	1845	4080	2099	4752	2369	5465	2656	6611	3117
	20	573	738	782	822	1003	911	1235	1004	1478	1102	1733	1205	1999	1312	2565	1539	3176	1785	3832	2049	4534	2332	5280	2632	6072	2951	7345	3464
36	2	76	74	105	82	135	91	168	100	202	110	237	120	274	131	353	154	438	179	530	205	628	233	732	263	842	295	1019	346
	4	151	148	209	164	271	182	336	201	403	220	474	241	548	262	706	308	877	357	1059	410	1255	466	1463	526	1684	590	2039	693
	6	227	221	314	247	406	273	503	301	605	331	711	361	823	394	1059	462	1315	536	1589	615	1883	700	2195	790	2526	885	3058	1039
	8	302	295	419	329	542	364	671	402	807	441	949	482	1097	525	1412	616	1753	714	2119	820	2510	933	2926	1053	3368	1181	4078	1385
	10	378	369	523	411	677	455	839	502	1008	551	1186	602	1371	656	1765	770	2191	893	2649	1025	3138	1166	3658	1316	4210	1476	5097	1732
	12	453	443	628	493	813	547	1007	603	1210	661	1423	723	1645	787	2119	924	2630	1071	3178	1230	3765	1399	4390	1579	5052	1771	6117	2078
	14	529	516	733	575	948	638	1174	703	1412	772	1660	843	1920	918	2472	1078	3068	1250	3708	1435	4393	1632	5121	1843	5894	2066	7136	2425
	16	604	590	837	658	1083	729	1342	803	1613	882	1897	964	2194	1049	2825	1232	3506	1428	4238	1640	5020	1865	5853	2106	6736	2361	8156	2771
	18	680	664	942	740	1219	820	1510	904	1815	992	2134	1084	2468	1181	3178	1385	3944	1607	4768	1845	5648	2099	6584	2369	7578	2656	9175	3117
	20	755	738	1047	822	1354	911	1678	1004	2017	1102	2372	1205	2742	1312	3531	1539	4383	1785	5297	2049	6275	2332	7316	2632	8420	2951	10194	3464

Page Revision

332-333 Replace tabular values in Table A-3.4 Exposures B and C as shown below.
 NOTE: Footnotes to Table A-3.4 remain unchanged.

Table A-3.4 Uplift Strap Connection Requirements (Roof-to-Wall, Wall-to-Wall, and Wall-to-Foundation) Exposure B
 (Prescriptive Alternative to Table 3.4)
 Dead Load Assumptions: Roof/Ceiling Assembly DL = 15 psf

Wind Speed 3-second gust (mph) (See Figure 1.1)		90	95	100	105	110	115	120	130	140	150	160	170	180	195
Framing Spacing (in.)	Roof Span (ft.)	Number of 8d Common Nails or 10d Box Nails in Each End of 1-1/4" x 20 gage Strap ^{1,2,3}													
12	12	1	1	1	1	1	1	1	1	1	2	2	2	3	3
	16	1	1	1	1	1	1	1	1	2	2	2	3	3	3
	20	1	1	1	1	1	1	1	2	2	2	3	3	3	4
	24	1	1	1	1	1	1	1	2	2	2	3	3	4	5
	28	1	1	1	1	1	1	1	2	2	3	3	4	4	5
	32	1	1	1	1	1	1	1	2	2	3	3	4	4	5
16	12	1	1	1	1	1	1	1	2	2	2	2	3	3	4
	16	1	1	1	1	1	1	1	2	2	2	3	3	4	4
	20	1	1	1	1	1	1	2	2	2	3	3	4	4	5
	24	1	1	1	1	1	1	2	2	3	3	4	4	5	6
	28	1	1	1	1	1	2	2	2	3	3	4	5	5	7
	32	1	1	1	1	1	2	2	2	3	3	4	4	5	6
19.2	12	1	1	1	1	1	1	1	2	2	2	3	3	4	4
	16	1	1	1	1	1	1	2	2	2	3	3	4	4	5
	20	1	1	1	1	1	2	2	2	3	3	4	4	5	6
	24	1	1	1	1	1	2	2	2	3	4	4	5	6	7
	28	1	1	1	1	2	2	2	3	3	4	5	6	6	-
	32	1	1	1	1	2	2	2	3	4	4	5	6	7	-
24	12	1	1	1	1	1	1	2	2	2	3	3	4	5	5
	16	1	1	1	1	1	2	2	2	3	3	4	5	5	6
	20	1	1	1	1	2	2	2	3	3	4	5	5	6	-
	24	1	1	1	1	2	2	2	3	4	4	5	6	7	-
	28	1	1	1	1	2	2	2	3	4	5	6	7	-	-
	32	1	1	1	2	2	2	3	4	4	5	6	-	-	-
36	1	1	1	2	2	2	3	4	5	6	7	-	-	-	

Table A-3.4 Uplift Strap Connection Requirements (Roof-to-Wall, Wall-to-Wall, and Wall-to-Foundation) Exposure C

(Prescriptive Alternative to Table 3.4)

Dead Load Assumptions: Roof/Ceiling Assembly DL = 15 psf

Wind Speed 3-second gust (mph) (See Figure 1.1)		90	95	100	105	110	115	120	130	140	150	160	170	180	195
Framing Spacing (in.)	Roof Span (ft.)	Number of 8d Common Nails or 10d Box Nails in Each End of 1-1/4" x 20 gage Strap ^{1,2,3}													
12	12	1	1	1	1	1	1	2	2	2	2	3	3	4	4
	16	1	1	1	1	1	2	2	2	2	3	3	4	4	5
	20	1	1	1	1	2	2	2	2	3	3	4	4	5	6
	24	1	1	1	2	2	2	2	3	3	4	4	5	5	6
	28	1	1	1	2	2	2	2	3	3	4	4	5	5	6
	32	1	1	2	2	2	2	2	3	3	4	4	5	6	7
36	1	1	2	2	2	2	2	3	3	4	5	6	6	7	-
16	12	1	1	1	1	2	2	2	2	3	3	4	4	5	5
	16	1	1	1	2	2	2	2	3	3	4	4	5	5	6
	20	1	1	1	2	2	2	2	3	4	4	5	5	6	-
	24	1	1	2	2	2	2	3	3	4	5	5	6	7	-
	28	1	1	2	2	2	3	3	4	4	5	6	7	-	-
	32	1	2	2	2	2	3	3	4	5	6	7	-	-	-
36	1	2	2	2	3	3	3	4	5	6	7	-	-	-	
19.2	12	1	1	1	2	2	2	2	3	3	4	4	5	5	6
	16	1	1	2	2	2	2	2	3	4	4	5	6	6	-
	20	1	1	2	2	2	2	3	3	4	5	6	6	7	-
	24	1	2	2	2	2	3	3	4	5	5	6	7	-	-
	28	1	2	2	2	2	3	3	4	5	6	7	-	-	-
	32	1	2	2	2	3	3	4	5	6	7	-	-	-	-
36	1	2	2	3	3	4	4	5	6	7	-	-	-	-	
24	12	1	1	2	2	2	2	3	3	4	4	5	6	7	-
	16	1	1	2	2	2	3	3	4	4	5	6	7	-	-
	20	1	2	2	2	3	3	3	4	5	6	7	-	-	-
	24	1	2	2	3	3	3	4	5	6	7	-	-	-	-
	28	2	2	2	3	3	4	4	5	6	-	-	-	-	-
	32	2	2	3	3	3	4	5	6	7	-	-	-	-	-
36	2	2	3	3	4	4	5	6	-	-	-	-	-	-	



ERRATA
to the 2018 Edition of
the Wood Frame Construction Manual (WFCM) for One- and Two-Family Dwellings
(web versions dated 11-17 and 03-19)

Page Revision

197 Revise maximum field nail spacing for 110mph column as shown below (shown in red underline).

Table 3.10A Roof Sheathing Attachment Requirements for Wind Exposure B Loads (7/16", PANEL G=0.50)
(Prescriptive Alternative to Table 3.10)

Wind Speed 3-second gust (mph) (See Figure 1.1)			90	95	100	105	110	115	120	130	140	150	160	170	180	195							
			STRUCTURAL SHEATHING																				
			E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F	
Sheathing Location ¹	Rafter/Truss Framing Specific Gravity, G	Rafter/Truss Spacing (in.)	Maximum Nail Spacing for 8d Common Nails, or 10d Box Nails (inches, o.c.) ^{2,4}																				
Interior Zone	0.49	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	
		16	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	
		19.2	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6
		24	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6	6	6
	0.42	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6
		16	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6	6	6	6	6
Perimeter Edge Zone	0.49	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6	6	6	6	6	6	6
		16	6	12	6	12	6	12	6	12	6	12	6	6	6	6	6	6	6	6	6	6	
		19.2	6	12	6	12	6	12	6	12	6	12	6	6	6	6	6	6	6	6	6	6	6
		24	6	12	6	12	6	12	6	12	6	6	6	6	6	6	Exceeds capacity of 7/16" sheathing ³						
	0.42	12	6	12	6	12	6	12	6	12	6	12	6	6	6	6	6	6	6	6	6	4	4
		16	6	12	6	12	6	12	6	12	6	6	6	6	6	6	6	6	6	6	6	4	4
Gable Endwall Rake or Rake Truss with up to 9" Rake Overhang	0.49	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	4	4	
	0.42	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	4	4	
			BOARD SHEATHING																				
Sheathing Size	Rafter/Truss Spacing (in.)	Minimum Number of 8d Common Nails Per Support ⁴																					
1x6 or 1x8 Sheathing	12-19.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
1x10 or Larger Sheathing	12-19.2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

E - Nail spacing at panel edges (in.)
 F - Nail spacing at intermediate supports in the panel field (in.)
 1 For roof sheathing within 4 feet of the perimeter edge of the roof, including 4 feet on each side of the roof peak, the 4 foot perimeter edge zone attachment requirements shall be used.
 2 For wind speeds greater than 130 mph, blocking is required which transfers lateral load to two additional joists (3 joists total).
 3 See Table 3.10 for other fastener and sheathing combinations.
 4 Tabulated values for 8d common and 10d box nails are applicable to carbon steel nails (bright or galvanized).

198 Revise maximum field nail spacing for 110mph column as shown below (shown in red underline).

Table 3.10A Roof Sheathing Attachment Requirements for Wind Exposure C Loads (7/16", PANEL G=0.50)
(Prescriptive Alternative to Table 3.10)

Wind Speed 3-second gust (mph) (See Figure 1.1)		90	95	100	105	110	115	120	130	140	150	160	170	180	195						
		STRUCTURAL SHEATHING																			
Sheathing Location ¹	Rafter/Truss Framing Specific Gravity, G	Rafter/Truss Spacing (in.)	Maximum Nail Spacing for 8d Common Nails, or 10d Box Nails (inches, o.c.) ^{2,4}																		
			E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F	
Interior Zone	0.49	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	
		16	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6
		19.2	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6
	24	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6	
	0.42	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6
		16	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6
19.2		6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6	
24	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	6		
Perimeter Edge Zone	0.49	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	
		16	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	
		19.2	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	6	
	24	6	12	6	12	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	0.42	12	6	12	6	12	6	12	6	6	6	6	6	6	6	6	6	6	6	6	6
		16	6	12	6	12	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
19.2		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
24	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
Gable Endwall Rake or Rake Truss with up to 9" Rake Overhang	0.49	-	6	6	6	6	6	6	6	6	6	6	4	4	4	3	3	-	-		
	0.42	-	6	6	6	6	6	6	6	6	4	4	4	4	3	3	3	-	-		
		BOARD SHEATHING																			
Sheathing Size	Rafter/Truss Spacing (in.)	Minimum Number of 8d Common Nails Per Support ⁴																			
1x6 or 1x8 Sheathing	12-19.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
1x10 or Larger Sheathing	12-19.2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		

- E - Nail spacing at panel edges (in.)
- F - Nail spacing at intermediate supports in the panel field (in.)
- 1 For roof sheathing within 4 feet of the perimeter edge of the roof, including 4 feet on each side of the roof peak, the 4 foot perimeter edge zone attachment requirements shall be used.
- 2 For wind speeds greater than 130 mph, blocking is required which transfers lateral load to two additional joists (3 joists total).
- 3 See Table 3.10 for other fastener and sheathing combinations.
- 4 Tabulated values for 8d common and 10d box nails are applicable to carbon steel nails (bright or galvanized).



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Page **Revision**

123 Revise 3.4.4.2.1 and 3.4.4.2.3 as shown in strike-out and underline below:

3.4.4.2.1 Sheathing Type Adjustments When other sheathing material or nailing patterns are used, the length requirements in Tables 3.17A and 3.17C shall be multiplied by the appropriate ~~length~~ sheathing type adjustment factor in Table 3.17D.

3.4.4.2.3 Hold-downs Hold-downs with a capacity in accordance with Table 3.17F, divided by the appropriate ~~length~~ sheathing type adjustment factor in Table 3.17D, are required at the end of each shear wall segment or at each end of a perforated shear wall. Where full height shear wall segments meet at a corner, a single hold-down shall be permitted to be used to resist the overturning forces in both directions when the corner framing in the adjoining walls is fastened together to transfer the uplift load (see Figures 3.8a-b).



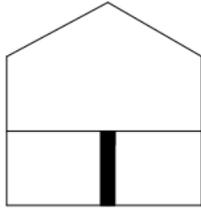
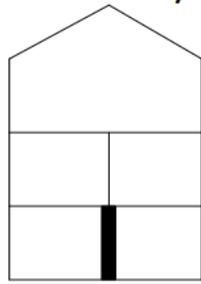
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the Wood Frame Construction Manual (WFCM) for One- and Two-Family Dwellings
 (all versions)

Page Revision

86 Replace tabular values in Table 2.9C with revised Table 2.9C as shown below.

Table 2.9C Interior Loadbearing Wall Stud Compression Stresses from Live Loads

(Dead Load Assumptions: Wall Assembly DL = 121plf, Floor Assembly DL = 10 psf, Floor LL = 40 psf)

Loadbearing Wall Supporting	Stud Spacing	Stud Size	Building Width (ft)			
			12	24	36	60
			Induced f_c (psi) ¹			
1 Floor Only 	12 in.	2x4	80	137	194	309
		2x6	51	87	124	196
		2x8	39	66	94	149
	16 in.	2x4	107	183	259	412
		2x6	68	117	165	262
		2x8	52	88	125	199
	24 in.	2x4	160	275	389	618
		2x6	102	175	248	393
		2x8	77	133	188	298
2 Floors Only 	12 in.	2x4	160	275	389	618
		2x6	102	175	248	393
		2x8	77	133	188	298
	16 in.	2x4	214	366	519	823
		2x6	136	233	330	524
		2x8	103	177	250	397
	24 in.	2x4	321	549	778	1235
		2x6	204	350	495	786
		2x8	155	265	376	596

¹ Tabulated compression stresses (f_c) shall be less than or equal to the allowable compression perpendicular to grain design value ($F_{c\perp}'$) for top and bottom plates, and less than or equal to the allowable compression parallel to grain design value ($F_{c\parallel}'$) for studs.

160 Replace tabular values in Table 3.2C Exposure B with revised Table 3.2C Exposure B as shown on the following page.

NOTE: Footnotes to Table 3.2C Exposure B remain unchanged.

Table 3.2C Sill or Bottom Plate to Foundation Connections (Anchor Bolts) Resisting Uplift Loads from Wind
(Prescriptive Alternative to Table 3.2)

Exposure B

Wind Speed 3-second gust (mph) (See Figure 1.1)			90	95	100	105	110	115	120	130	140	150	160	170	180	195
Sill or Bottom Plate to Foundation Anchor Bolt Connection Resisting	Plate Size	Foundation Supporting	Maximum Anchor Bolt Spacing (in.) ^{1,2}													
Uplift Loads	2x4		8' End Zones													
		1-3 stories	72	72	72	72	72	71	57	43	35	30	27	24	22	20
			Interior Zones													
	1-3 stories	72	72	72	72	72	72	66	50	41	35	31	28	26	23	
	2x6		8' End Zones													
		1-3 stories	72	72	72	72	72	72	68	51	42	36	32	29	26	23
		Interior Zones														
1-3 stories	72	72	72	72	72	72	72	60	49	42	37	34	31	27		

289, 290, 291 Revise Footnote 3 in Tables 3.23A and 3.23B as follows:

“3. Tabulated spans are based on the lowest F_b , F_v and E for #2 Grade Douglas Fir-Larch, Hem-Fir, Southern Pine, and Spruce-Pine-Fir.”

296 Replace tabular values in Table 3.24B1 with revised Table 3.24B1 as shown on the following page. NOTE: Footnotes to Table 3.24B1 remain unchanged.

Table 3.24B1 Laterally Unsupported (Dropped) Header Spans for Interior Loadbearing Walls

(Supporting Two Center Bearing Floors)

Floor Live Load = 40 psf, L/Δ_{LL} =360, Floor Assembly Dead Load = 10 psf

Dropped Interior

Headers Supporting	Size	Building Width (ft)			
		12	24	36	
		Maximum Header/Girder Spans (ft-in.) for Common Lumber Species ^{1,3,4,5}			
Two Floors Only (Center Bearing)	1-2x6	2 - 7	1 - 11	1 - 7	
	1-2x8	3 - 4	2 - 5	2 - 0	
	1-2x10	3 - 10	2 - 11	2 - 5	
	1-2x12	4 - 6	3 - 4	2 - 10	
	2-2x4	2 - 7	1 - 11	1 - 7	
	2-2x6	3 - 10	2 - 10	2 - 5	
	2-2x8	4 - 9	3 - 7	3 - 0	
	2-2x10	5 - 6	4 - 2	3 - 6	
	2-2x12	6 - 1	4 - 9	4 - 1	
	3-2x8	5 - 10	4 - 5	3 - 9	
	3-2x10	6 - 7	5 - 1	4 - 4	
	3-2x12	7 - 2	5 - 8	4 - 11	
	4-2x8	6 - 7	5 - 1	4 - 3	
	4-2x10	7 - 5	5 - 9	4 - 11	
	4-2x12	8 - 0	6 - 4	5 - 6	
		Size	Maximum Header/Girder Spans (ft-in.) for Glued Laminated Timber Beams ^{2,3,4,5}		
		3.125x5.500	5 - 4	4 - 0	3 - 4
	3.125x6.875	6 - 8	5 - 0	4 - 1	
	3.125x8.250	8 - 0	5 - 11	4 - 11	
	3.125x9.625	9 - 3	6 - 11	5 - 9	
	3.125x11.000	10 - 6	7 - 10	6 - 6	
	3.125x12.375	11 - 7	8 - 9	7 - 3	
	3.125x13.750	12 - 7	9 - 7	8 - 0	
	3.125x15.125	13 - 4	10 - 4	8 - 8	
	3.125x16.500	14 - 0	10 - 11	9 - 4	
	3.125x17.875	14 - 6	11 - 5	9 - 10	
	3.125x19.250	14 - 11	11 - 10	10 - 3	
	3.125x20.625	15 - 4	12 - 3	10 - 8	
	3.125x22.000	15 - 8	12 - 7	11 - 0	
	3.125x23.375	16 - 0	12 - 10	11 - 3	
	3.125x24.750	16 - 4	13 - 2	11 - 7	
	5.125x5.500	6 - 11	5 - 1	4 - 3	
	5.125x6.875	8 - 7	6 - 4	5 - 3	
	5.125x8.250	10 - 4	7 - 8	6 - 4	
	5.125x9.625	12 - 0	8 - 11	7 - 5	
	5.125x11.000	13 - 8	10 - 2	8 - 5	
	5.125x12.375	15 - 4	11 - 5	9 - 6	
	5.125x13.750	17 - 0	12 - 7	10 - 6	
	5.125x15.125	18 - 7	13 - 10	11 - 6	
	5.125x16.5	20-0†	15 - 0	12 - 6	
	5.125x17.875	20-0†	16 - 2	13 - 6	
	5.125x19.250	20-0†	17 - 3	14 - 5	
	5.125x20.625	20-0†	18 - 4	15 - 5	
	5.125x22.000	20-0†	19 - 4	16 - 3	
	5.125x23.375	20-0†	20-0†	17 - 1	
	5.125x24.75	20-0†	20-0†	17 - 10	

