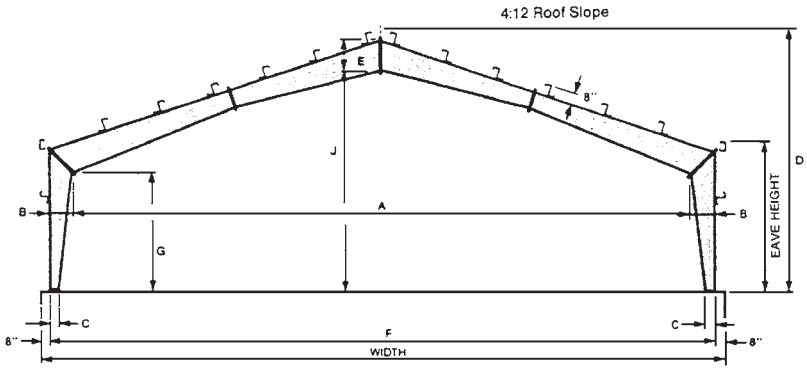


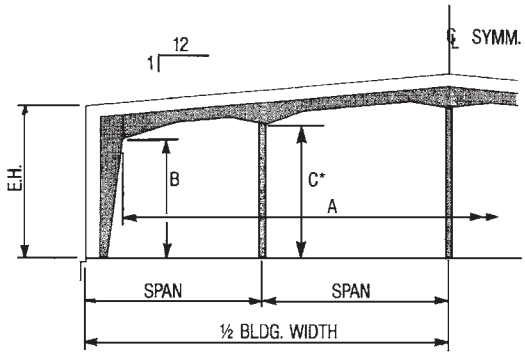
NOTE: PURLIN AND GIRT DEPTHS DEPENDENT ON DESIGN REQUIREMENTS.

WIDTH	EAVE HEIGHT (ACTUAL)	*20 PSF LL					30 PSF LL					40 PSF LL				
		A	D	E	G	J	A	D	E	G	J	A	D	E	G	J
30	9'-10"	26'-11"	14'-10"	7"	8'-8"	13'-6"	25'-11"	14'-10"	10"	8'-4"	13'-3"	25'-7"	14'-10"	1'-1"	8'-3"	13'-0"
	11'-10"	26'-11"	16'-10"	7"	10'-8"	15'-6"	25'-11"	16'-10"	10"	10'-4"	15'-3"	25'-7"	16'-10"	1'-1"	10'-3"	15'-0"
	13'-10"	26'-11"	18'-10"	7"	12'-8"	17'-6"	25'-11"	18'-10"	10"	12'-4"	17'-3"	25'-7"	18'-10"	1'-1"	12'-3"	17'-0"
40	9'-10"	36'-3"	16'-6"	9"	8'-5"	15'-0"	34'-7"	16'-6"	1'-3"	7'-10"	14'-6"	34'-1"	16'-6"	1'-6"	7'-8"	14'-3"
	11'-10"	36'-3"	18'-6"	9"	10'-5"	17'-0"	34'-7"	18'-6"	1'-3"	9'-10"	16'-6"	34'-1"	18'-6"	1'-6"	9'-8"	16'-3"
	13'-10"	36'-3"	20'-6"	9"	12'-5"	19'-0"	34'-7"	20'-6"	1'-3"	11'-10"	18'-6"	34'-1"	20'-6"	1'-6"	11'-8"	18'-3"
	15'-10"	36'-3"	22'-6"	9"	14'-5"	21'-0"	34'-7"	22'-6"	1'-3"	13'-10"	20'-6"	34'-1"	22'-6"	1'-6"	13'-8"	20'-3"
	19'-10"	36'-3"	26'-6"	9"	18'-5"	25'-0"	34'-7"	26'-6"	1'-3"	17'-10"	24'-6"	34'-1"	26'-6"	1'-6"	17'-8"	24'-3"
	23'-10"	36'-3"	30'-6"	9"	22'-5"	29'-0"	34'-7"	30'-6"	1'-3"	21'-10"	28'-6"	34'-1"	30'-6"	1'-6"	21'-8"	28'-3"
50	11'-10"	45'-5"	20'-2"	1'-1"	10'-2"	18'-4"	44'-0"	20'-2"	1'-5"	9'-8"	18'-0"	43'-6"	20'-2"	1'-6"	9'-6"	17'-11"
	13'-10"	45'-5"	22'-2"	1'-1"	12'-2"	20'-4"	44'-0"	22'-2"	1'-5"	11'-8"	20'-0"	43'-6"	22'-2"	1'-6"	11'-6"	19'-11"
	15'-10"	45'-5"	24'-2"	1'-1"	14'-2"	22'-4"	44'-0"	24'-2"	1'-5"	13'-8"	22'-0"	43'-6"	24'-2"	1'-6"	13'-6"	21'-11"
	19'-10"	45'-5"	28'-2"	1'-1"	18'-2"	26'-4"	44'-0"	28'-2"	1'-5"	17'-8"	26'-0"	43'-6"	28'-2"	1'-6"	17'-6"	25'-11"
	23'-10"	45'-5"	32'-2"	1'-1"	22'-2"	30'-4"	44'-0"	32'-2"	1'-5"	21'-8"	30'-0"	43'-6"	32'-2"	1'-6"	21'-6"	29'-10"
60	11'-10"	54'-7"	21'-10"	1'-1"	9'-10"	20'-0"	53'-6"	21'-10"	1'-7"	9'-6"	19'-6"	53'-4"	21'-10"	1'-7"	9'-5"	19'-6"
	13'-10"	54'-7"	23'-10"	1'-1"	11'-10"	22'-0"	53'-6"	23'-10"	1'-7"	11'-6"	21'-6"	53'-4"	23'-10"	1'-7"	11'-5"	21'-6"
	15'-10"	54'-7"	25'-10"	1'-1"	13'-10"	24'-0"	53'-6"	25'-10"	1'-7"	13'-6"	23'-6"	53'-4"	25'-10"	1'-7"	13'-5"	23'-6"
	19'-10"	54'-7"	29'-10"	1'-1"	17'-10"	28'-0"	53'-6"	29'-10"	1'-7"	17'-6"	27'-6"	53'-4"	29'-10"	1'-7"	17'-5"	27'-5"
	23'-10"	54'-7"	33'-10"	1'-1"	21'-10"	32'-0"	53'-6"	33'-10"	1'-7"	21'-6"	31'-6"	53'-4"	33'-10"	1'-7"	21'-5"	31'-5"
70	11'-10"	64'-3"	23'-6"	1'-7"	9'-9"	21'-2"	62'-10"	23'-6"	1'-10"	9'-3"	20'-10"	62'-6"	23'-6"	1'-9"	9'-1"	20'-11"
	13'-10"	64'-3"	25'-6"	1'-7"	11'-9"	23'-2"	62'-10"	25'-6"	1'-10"	11'-3"	22'-10"	62'-6"	25'-6"	1'-9"	11'-1"	22'-11"
	15'-10"	64'-3"	27'-6"	1'-7"	13'-9"	25'-2"	62'-10"	27'-6"	1'-10"	13'-3"	24'-10"	62'-6"	27'-6"	1'-9"	13'-1"	24'-11"
	19'-10"	64'-2"	31'-6"	1'-7"	17'-9"	29'-2"	62'-10"	31'-6"	1'-10"	17'-2"	28'-10"	62'-6"	31'-6"	1'-9"	17'-1"	28'-11"
	23'-10"	64'-2"	35'-6"	1'-7"	21'-9"	33'-2"	62'-10"	35'-6"	1'-11"	21'-2"	32'-9"	62'-6"	35'-6"	1'-9"	21'-1"	32'-11"
80	13'-10"	73'-7"	27'-2"	1'-4"	11'-6"	25'-1"	71'-6"	27'-2"	1'-11"	10'-9"	24'-5"	71'-0"	27'-2"	1'-11"	10'-7"	24'-5"
	15'-10"	73'-7"	29'-2"	1'-4"	13'-6"	27'-1"	71'-6"	29'-2"	1'-11"	12'-9"	26'-5"	71'-0"	29'-2"	1'-11"	12'-7"	26'-5"
	19'-10"	73'-6"	33'-2"	1'-4"	17'-6"	31'-1"	71'-6"	33'-2"	1'-11"	16'-9"	30'-5"	71'-0"	33'-2"	1'-11"	16'-7"	30'-5"
	23'-10"	73'-6"	37'-2"	1'-4"	21'-6"	35'-1"	71'-6"	37'-2"	1'-11"	20'-9"	34'-5"	71'-0"	37'-2"	1'-11"	20'-7"	34'-5"
100	13'-10"	92'-8"	30'-6"	1'-5"	11'-2"	28'-4"	91'-2"	30'-6"	1'-9"	10'-7"	27'-11"	90'-1"	30'-6"	2'-1"	10'-3"	27'-7"
	15'-10"	92'-8"	32'-6"	1'-5"	13'-2"	30'-4"	91'-2"	32'-6"	1'-9"	12'-7"	29'-11"	90'-1"	32'-6"	2'-1"	12'-3"	29'-7"
	19'-10"	92'-8"	36'-6"	1'-5"	17'-2"	34'-4"	91'-2"	36'-6"	1'-9"	16'-7"	33'-11"	90'-1"	36'-6"	2'-1"	16'-3"	33'-7"
	23'-10"	92'-8"	40'-6"	1'-5"	22'-2"	38'-4"	91'-2"	40'-6"	1'-9"	20'-8"	37'-11"	90'-1"	40'-6"	2'-1"	20'-3"	37'-7"
120	13'-10"	112'-6"	33'-10"	1'-6"	11'-1"	31'-6"	110'-4"	33'-10"	2'-1"	10'-4"	30'-11"	109'-6"	33'-10"	2'-2"	10'-0"	30'-10"
	15'-10"	112'-6"	35'-10"	1'-6"	13'-1"	33'-7"	110'-4"	35'-10"	2'-1"	12'-4"	32'-11"	109'-6"	35'-10"	2'-2"	12'-0"	32'-10"
	19'-10"	112'-6"	39'-10"	1'-6"	17'-1"	37'-6"	110'-4"	39'-10"	2'-1"	16'-4"	36'-11"	109'-6"	39'-10"	2'-2"	16'-0"	36'-10"
	23'-10"	112'-6"	43'-10"	1'-6"	21'-1"	41'-6"	110'-4"	43'-10"	2'-1"	20'-4"	40'-11"	109'-6"	43'-10"	2'-2"	20'-0"	40'-10"

*12 PSF LL FRAME

Dimensions shown are for 25' bays. 20' and 30' bays also available.
Building components and dimensions shown are subject to change due to final design.

FIGURE 4.11 Typical dimensions of high-profile single-span rigid frame. (American Buildings Co.)



REPRESENTATIVE CLEARANCE DIMENSIONS
1:12 ROOF SLOPE

BAY SPACING	–	25 ft.
ROOF SLOPE	–	1:12
LIVE LOAD	–	LL (psf)
WIND LOAD	–	WL (mph)

WIND LOAD APPLIED IN ACCORDANCE WITH MBMA (1986)

*C = Minimum clearance other than at knee (dimension B). All points where rafter changes shape are checked and vertical dimension to lowest of these points is given.

CLEARANCE DIMENSIONS (FEET-INCHES) * *														
LL/WL→		20/80			20/100			25/90			30/90			
SPAN	E.H.	A	B	C	A	B	C	A	B	C	A	B	C	
2 at 40	10	76-10	7- 5	10- 7	76- 8	7- 5	10- 7	75- 4	7- 6	10- 7	75- 0	7- 3	10- 5	
	14	76- 8	11- 5	14- 7	76- 8	11- 5	14- 7	76- 2	11- 5	14- 7	76- 0	11- 3	14- 5	
	16	76-10	13- 5	16- 7	76-10	13- 5	16- 7	76- 8	13- 3	16- 5	76- 0	13- 3	16- 5	
	20	76-10	17- 5	20- 7	76- 2	17- 5	20- 7	76- 8	17- 3	20- 5	76- 8	17- 3	20- 5	
2 at 60	10	114- 0	6- 8	8- 6	114- 0	6- 8	8- 6	113- 6	6- 8	8- 9	113- 2	6- 1	8- 9	
	14	113- 8	11- 1	12- 9	113-10	10- 8	12- 9	113- 6	10-10	12- 9	113- 0	10- 8	12- 7	
	16	113- 6	12- 8	14- 9	113- 6	12- 8	14- 9	112-10	12-10	14-10	112- 8	12- 6	14-10	
	20	113- 8	16- 9	18- 9	113-10	16- 8	18- 9	113- 2	16- 9	18-10	112-10	16-10	18- 7	
3 at 40	12	116- 8	9- 7	14- 6	116- 8	9- 7	14- 6	115-10	9- 5	14- 4	115- 2	9- 6	14- 4	
	16	116-10	13- 7	18- 6	116-10	13- 7	18- 6	115- 8	13- 6	18- 4	115- 6	13- 3	18- 1	
	20	116-10	17- 7	22- 6	116- 0	17- 7	22- 6	116- 8	17- 5	22- 4	116- 6	17- 2	22- 1	
	24	116- 4	21- 7	26- 6	115- 4	21- 8	26- 6	116- 0	21- 5	26- 4	116- 0	21- 5	26- 3	
3 at 60	12	174- 0	8- 8	10- 6	174- 0	8- 8	10- 6	173- 8	8- 8	10- 6	172-10	7-11	10-10	
	16	173- 6	12- 8	14- 9	173- 6	12- 8	14- 9	172- 8	12-10	14- 7	172- 2	12- 9	14- 7	
	20	173- 6	16- 8	18- 9	173- 6	16- 8	18- 9	172- 8	16- 9	18-10	172- 6	16- 9	18- 7	
	24	173- 6	20- 8	22- 9	173- 6	20- 8	22- 9	172- 8	20- 9	22-10	172- 4	20- 9	22-10	
4 at 40	12	156-10	9- 7	16- 1	156-10	9- 7	16- 1	156- 2	9- 5	15-11	155- 8	9- 3	15- 9	
	16	156-10	13- 7	20- 1	156-10	13- 7	20- 1	156- 0	13- 5	19-11	155- 8	13- 3	19- 9	
	20	156-10	17- 5	24- 0	156- 2	17- 7	24- 1	156- 8	17- 5	23-11	156- 8	17- 3	23- 9	
	24	156- 8	21- 5	28- 0	155- 6	21- 6	28- 0	156- 2	21- 5	27-11	156- 2	21- 3	27- 9	
4 at 60	16	233- 6	12- 8	14- 9	233- 6	12- 8	14- 9	232-10	12- 9	14- 7	232- 6	12- 9	14- 7	
	20	233- 8	16- 8	18- 9	233- 8	16- 8	18- 9	233- 6	16- 8	18- 6	232- 8	16- 9	18- 7	
	24	233- 6	20- 8	22- 9	233- 6	20- 8	22- 9	232-10	20- 9	22-10	232- 8	20- 8	22- 7	
	30	233- 4	26- 9	28- 9	233- 8	26- 8	28- 9	232- 6	26- 9	28-10	232- 2	26- 9	28- 7	
5 at 60	16	293- 6	13- 1	14- 9	293- 6	13- 1	14- 9	292-10	12- 9	14- 7	292- 6	12- 9	14- 7	
	20	293-10	16- 8	18- 9	293- 8	16- 8	18- 9	292-10	16- 9	18-10	292- 6	16- 9	18- 7	
	24	293- 6	20- 8	22- 9	293- 6	20- 9	22- 9	292-10	20- 9	22-10	292- 8	20- 8	22-10	
	30	293- 6	26- 8	28- 9	293- 8	26- 8	28- 9	292- 6	26- 9	28-10	292- 2	26- 9	28- 7	

**Clearances shown are approximate. Actual clearances may be somewhat different.

FIGURE 4.12 Typical dimensions of multispan rigid frames. (*Ceco Building Systems*.)