

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

APPENDIX D GENERAL NOTES

This section contains substitute span tables for Chapter 1 structures for use with extrusion alloys 6061T6 or 6005T5. For tables not provided in this appendix use the appropriate table provided in the Chapter 1 main body of the document.

Both Exposure B & C tables are listed in this appendix for the alloys listed.

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Flat (Horizontal) Beams

Table 101(a&b)8

Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"
2 X 8 X 0.072 X 0.224 SMB	37'-11"	36'-9"	35'-9"	34'-9"	33'-11"	33'-2"	32'-5"
2 X 9 X 0.082 X 0.306 SMB	44'-8"	43'-3"	42'-0"	40'-11"	39'-11"	39'-0"	38'-2"
2 X 10 X 0.092 X 0.374 SMB	52'-2"	50'-6"	49'-1"	47'-9"	46'-7"	45'-6"	44'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(a&b)11

Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"
2 X 8 X 0.072 X 0.224 SMB	37'-11"	36'-9"	35'-9"	34'-9"	33'-11"	33'-2"	32'-5"
2 X 9 X 0.082 X 0.306 SMB	44'-8"	43'-3"	42'-0"	40'-11"	39'-11"	39'-0"	38'-2"
2 X 10 X 0.092 X 0.374 SMB	52'-2"	50'-6"	49'-1"	47'-9"	46'-7"	45'-6"	44'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(a&b)14

Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"
2 X 8 X 0.072 X 0.224 SMB	37'-11"	36'-9"	35'-9"	34'-9"	33'-11"	33'-2"	32'-5"
2 X 9 X 0.082 X 0.306 SMB	44'-8"	43'-3"	42'-0"	40'-11"	39'-11"	39'-0"	38'-2"
2 X 10 X 0.092 X 0.374 SMB	52'-2"	50'-6"	49'-1"	47'-9"	46'-7"	45'-6"	44'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Flat (Horizontal) Beams

Table 101(c)8

Self-Mating (or Lap) Beams	Beam Spacing in Feet						
	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"
2 X 8 X 0.072 X 0.224 SMB	37'-11"	36'-9"	35'-9"	34'-9"	33'-11"	33'-2"	32'-5"
2 X 9 X 0.082 X 0.306 SMB	44'-8"	43'-3"	42'-0"	40'-11"	39'-11"	39'-0"	38'-2"
2 X 10 X 0.092 X 0.374 SMB	52'-2"	50'-6"	49'-1"	47'-9"	46'-7"	45'-6"	44'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(c)11

Self-Mating (or Lap) Beams	Beam Spacing in Feet						
	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"
2 X 8 X 0.072 X 0.224 SMB	37'-11"	36'-9"	35'-9"	34'-9"	33'-11"	33'-2"	32'-5"
2 X 9 X 0.082 X 0.306 SMB	44'-8"	43'-3"	42'-0"	40'-11"	39'-11"	39'-0"	38'-2"
2 X 10 X 0.092 X 0.374 SMB	52'-2"	50'-6"	49'-1"	47'-9"	46'-7"	45'-6"	44'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(c)14

Self-Mating (or Lap) Beams	Beam Spacing in Feet						
	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	20'-3"
2 X 8 X 0.072 X 0.224 SMB	37'-11"	36'-9"	35'-9"	34'-9"	33'-11"	33'-2"	32'-5"
2 X 9 X 0.082 X 0.306 SMB	44'-8"	43'-3"	42'-0"	40'-11"	39'-11"	39'-0"	38'-2"
2 X 10 X 0.092 X 0.374 SMB	52'-2"	50'-6"	49'-1"	47'-9"	46'-7"	45'-6"	44'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Flat (Horizontal) Beams

Table 101(d)8

Wind Zone	Wall Height: 8 ft		Roof Design Pressure: 5 psf				
	130 mph Exposure B		Wall Design Pressure: 18 psf				
	Beam Spacing in Feet						
Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	20'-4"	20'-4"	20'-4"	19'-11"	19'-2"
2 X 8 X 0.072 X 0.224 SMB	35'-3"	34'-2"	33'-2"	32'-3"	31'-6"	30'-9"	30'-1"
2 X 9 X 0.082 X 0.306 SMB	41'-6"	40'-2"	39'-0"	37'-11"	37'-1"	36'-3"	35'-5"
2 X 10 X 0.092 X 0.374 SMB	48'-5"	46'-11"	45'-6"	44'-4"	43'-3"	42'-3"	41'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(d)11

Wind Zone	Wall Height: 11 ft		Roof Design Pressure: 5 psf				
	130 mph Exposure B		Wall Design Pressure: 18 psf				
	Beam Spacing in Feet						
Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	20'-4"	20'-4"	19'-11"	19'-1"	18'-4"
2 X 8 X 0.072 X 0.224 SMB	35'-3"	34'-2"	33'-2"	32'-3"	31'-6"	30'-9"	30'-1"
2 X 9 X 0.082 X 0.306 SMB	41'-6"	40'-2"	39'-0"	37'-11"	37'-1"	36'-3"	35'-5"
2 X 10 X 0.092 X 0.374 SMB	48'-5"	46'-11"	45'-6"	44'-4"	43'-3"	42'-3"	41'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(d)14

Wind Zone	Wall Height: 14 ft		Roof Design Pressure: 5 psf				
	130 mph Exposure B		Wall Design Pressure: 18 psf				
	Beam Spacing in Feet						
Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-2"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	20'-4"	20'-2"	19'-2"	18'-3"	17'-5"
2 X 8 X 0.072 X 0.224 SMB	35'-3"	34'-2"	33'-2"	32'-3"	31'-6"	30'-9"	30'-1"
2 X 9 X 0.082 X 0.306 SMB	41'-6"	40'-2"	39'-0"	37'-11"	37'-1"	36'-3"	35'-5"
2 X 10 X 0.092 X 0.374 SMB	48'-5"	46'-11"	45'-6"	44'-4"	43'-3"	42'-3"	41'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Flat (Horizontal) Beams **Table 101(e)8**

Wind Zone	Wall Height: 8 ft		Roof Design Pressure: 6 psf				
	140 mph Exposure B		Wall Design Pressure: 21 psf				
	Beam Spacing in Feet						
Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-8"	15'-0"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	20'-4"	19'-6"	18'-8"	17'-10"	17'-2"
2 X 8 X 0.072 X 0.224 SMB	33'-2"	32'-1"	31'-2"	30'-5"	29'-8"	28'-11"	28'-4"
2 X 9 X 0.082 X 0.306 SMB	39'-0"	37'-10"	36'-9"	35'-9"	34'-11"	34'-1"	33'-4"
2 X 10 X 0.092 X 0.374 SMB	45'-6"	44'-1"	42'-10"	41'-9"	40'-9"	39'-9"	38'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams **Table 101(e)11**

Wind Zone	Wall Height: 11 ft		Roof Design Pressure: 6 psf				
	140 mph Exposure B		Wall Design Pressure: 21 psf				
	Beam Spacing in Feet						
Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-10"	15'-7"	14'-10"	14'-2"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-4"	19'-9"	18'-9"	17'-10"	16'-11"	16'-3"
2 X 8 X 0.072 X 0.224 SMB	33'-2"	32'-1"	31'-2"	30'-5"	29'-8"	28'-11"	28'-4"
2 X 9 X 0.082 X 0.306 SMB	39'-0"	37'-10"	36'-9"	35'-9"	34'-11"	34'-1"	33'-4"
2 X 10 X 0.092 X 0.374 SMB	45'-6"	44'-1"	42'-10"	41'-9"	40'-9"	39'-9"	38'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams **Table 101(e)14**

Wind Zone	Wall Height: 14 ft		Roof Design Pressure: 6 psf				
	140 mph Exposure B		Wall Design Pressure: 21 psf				
	Beam Spacing in Feet						
Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-4"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-7"	14'-9"	13'-11"	13'-3"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	20'-1"	18'-11"	17'-11"	16'-11"	16'-1"	15'-3"
2 X 8 X 0.072 X 0.224 SMB	33'-2"	32'-1"	31'-2"	30'-5"	29'-8"	28'-11"	28'-4"
2 X 9 X 0.082 X 0.306 SMB	39'-0"	37'-10"	36'-9"	35'-9"	34'-11"	34'-1"	33'-4"
2 X 10 X 0.092 X 0.374 SMB	45'-6"	44'-1"	42'-10"	41'-9"	40'-9"	39'-9"	38'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(a&b)8

Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	7'-5"	3'-1"	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	13'-11"	11'-6"	9'-2"	6'-7"	3'-3"	NA	NA
2 X 8 X 0.072 X 0.224 SMB	38'-8"	36'-5"	34'-5"	32'-7"	30'-11"	29'-6"	28'-0"
2 X 9 X 0.082 X 0.306 SMB	49'-1"	47'-6"	46'-2"	44'-11"	43'-10"	42'-9"	41'-11"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-11"	52'-6"	51'-2"	50'-0"	48'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(a&b)11

Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	9'-5"	5'-9"	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	36'-11"	34'-8"	32'-8"	30'-9"	29'-1"	27'-5"	25'-9"
2 X 9 X 0.082 X 0.306 SMB	49'-1"	47'-6"	46'-2"	44'-9"	42'-10"	41'-0"	41'-1"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-11"	52'-6"	51'-2"	50'-0"	48'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(a&b)14

Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	35'-4"	32'-11"	30'-11"	28'-11"	27'-0"	25'-2"	23'-4"
2 X 9 X 0.082 X 0.306 SMB	49'-1"	47'-6"	45'-3"	43'-1"	41'-1"	39'-4"	39'-4"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-11"	52'-6"	50'-8"	48'-8"	46'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(a&b)8

Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	35'-8"	33'-3"	31'-1"	29'-1"	26'-11"	25'-1"	23'-3"
2 X 9 X 0.082 X 0.306 SMB	49'-1"	47'-6"	46'-2"	43'-11"	41'-11"	40'-1"	39'-7"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-11"	52'-6"	51'-2"	49'-7"	47'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(a&b)11

Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	33'-7"	31'-1"	28'-9"	26'-3"	23'-11"	21'-10"	19'-10"
2 X 9 X 0.082 X 0.306 SMB	49'-1"	46'-10"	44'-3"	42'-0"	39'-11"	38'-1"	37'-4"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-11"	52'-6"	49'-10"	47'-8"	45'-9"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(a&b)14

Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	31'-6"	28'-9"	25'-11"	23'-3"	20'-9"	18'-4"	15'-11"
2 X 9 X 0.082 X 0.306 SMB	47'-9"	44'-11"	42'-5"	40'-1"	38'-0"	36'-1"	35'-1"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	52'-11"	51'-2"	47'-11"	45'-10"	43'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(c)8

Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	10'-6"	7'-3"	2'-7"	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	37'-4"	35'-1"	33'-0"	31'-2"	29'-6"	27'-11"	26'-3"
2 X 9 X 0.082 X 0.306 SMB	49'-1"	47'-6"	46'-2"	44'-11"	43'-3"	41'-5"	41'-5"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-11"	52'-6"	51'-2"	50'-0"	48'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(c)11

Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	35'-5"	33'-1"	31'-0"	29'-1"	27'-2"	25'-3"	23'-6"
2 X 9 X 0.082 X 0.306 SMB	49'-1"	47'-6"	45'-5"	43'-3"	41'-3"	39'-6"	39'-6"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-11"	52'-6"	50'-10"	48'-10"	46'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(c)14

Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	33'-7"	31'-2"	29'-0"	26'-9"	24'-7"	22'-6"	20'-7"
2 X 9 X 0.082 X 0.306 SMB	48'-7"	45'-11"	43'-6"	41'-4"	39'-5"	37'-8"	37'-6"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-9"	51'-9"	49'-0"	46'-11"	45'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(c)8

Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	33'-10"	31'-3"	28'-11"	26'-6"	24'-3"	22'-2"	20'-2"
2 X 9 X 0.082 X 0.306 SMB	49'-1"	47'-1"	44'-6"	42'-3"	40'-2"	38'-3"	37'-7"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-11"	52'-6"	50'-0"	47'-11"	45'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(c)11

Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	31'-4"	28'-8"	25'-9"	23'-1"	20'-6"	18'-1"	15'-8"
2 X 9 X 0.082 X 0.306 SMB	47'-9"	44'-11"	42'-4"	40'-1"	37'-11"	36'-0"	34'-11"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	52'-10"	51'-4"	47'-11"	45'-10"	43'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(c)14

Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	28'-10"	25'-6"	22'-3"	19'-2"	16'-2"	13'-1"	9'-9"
2 X 9 X 0.082 X 0.306 SMB	45'-8"	42'-10"	40'-3"	37'-11"	35'-10"	33'-10"	32'-3"
2 X 10 X 0.092 X 0.374 SMB	56'-11"	53'-9"	50'-10"	49'-4"	45'-11"	43'-9"	41'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(d)8

Wall Height: 8 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	3'-11"	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	32'-7"	30'-5"	28'-6"	26'-6"	24'-8"	23'-0"	21'-6"
2 X 9 X 0.082 X 0.306 SMB	45'-7"	44'-2"	41'-11"	39'-11"	38'-1"	36'-5"	35'-7"
2 X 10 X 0.092 X 0.374 SMB	53'-2"	51'-6"	50'-0"	48'-9"	46'-9"	44'-10"	43'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(d)11

Wall Height: 11 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	30'-7"	28'-5"	26'-1"	23'-11"	21'-11"	20'-1"	18'-5"
2 X 9 X 0.082 X 0.306 SMB	44'-9"	42'-3"	40'-0"	37'-11"	36'-2"	34'-6"	33'-6"
2 X 10 X 0.092 X 0.374 SMB	53'-2"	51'-6"	49'-4"	47'-7"	44'-11"	43'-1"	41'-4"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(d)14

Wall Height: 14 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	28'-8"	25'-11"	23'-6"	21'-2"	18'-11"	16'-11"	14'-11"
2 X 9 X 0.082 X 0.306 SMB	42'-11"	40'-5"	38'-3"	36'-2"	34'-4"	32'-8"	31'-4"
2 X 10 X 0.092 X 0.374 SMB	52'-11"	50'-1"	47'-6"	45'-10"	43'-2"	41'-4"	39'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(d)8

Wall Height: 8 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	28'-8"	25'-11"	23'-4"	20'-11"	18'-8"	16'-6"	14'-5"
2 X 9 X 0.082 X 0.306 SMB	43'-11"	41'-4"	38'-11"	36'-9"	34'-10"	33'-1"	31'-5"
2 X 10 X 0.092 X 0.374 SMB	53'-2"	51'-2"	48'-6"	47'-5"	43'-11"	41'-11"	40'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(d)11

Wall Height: 11 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	25'-7"	22'-6"	19'-7"	16'-9"	14'-0"	11'-2"	8'-1"
2 X 9 X 0.082 X 0.306 SMB	41'-10"	39'-2"	36'-9"	34'-7"	32'-7"	30'-8"	28'-7"
2 X 10 X 0.092 X 0.374 SMB	52'-2"	49'-2"	46'-6"	45'-4"	41'-10"	39'-10"	38'-0"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(d)14

Wall Height: 14 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	22'-2"	18'-8"	15'-2"	11'-7"	7'-5"	NA	NA
2 X 9 X 0.082 X 0.306 SMB	39'-10"	37'-1"	34'-8"	32'-4"	30'-2"	27'-9"	25'-6"
2 X 10 X 0.092 X 0.374 SMB	50'-3"	47'-2"	44'-6"	43'-4"	39'-10"	37'-10"	35'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(e)8

Wall Height: 8 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	28'-11"	26'-7"	24'-6"	22'-7"	20'-10"	19'-3"	17'-8"
2 X 9 X 0.082 X 0.306 SMB	42'-2"	39'-10"	37'-8"	35'-10"	34'-1"	32'-7"	31'-2"
2 X 10 X 0.092 X 0.374 SMB	50'-0"	48'-6"	46'-3"	44'-10"	42'-2"	40'-5"	38'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(e)11

Wall Height: 11 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	26'-7"	24'-1"	21'-9"	19'-8"	17'-9"	15'-11"	14'-2"
2 X 9 X 0.082 X 0.306 SMB	40'-4"	37'-11"	35'-10"	33'-11"	32'-3"	30'-7"	28'-10"
2 X 10 X 0.092 X 0.374 SMB	49'-8"	46'-11"	44'-6"	43'-1"	40'-5"	38'-8"	37'-0"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(e)14

Wall Height: 14 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	24'-1"	21'-5"	18'-11"	16'-7"	14'-4"	12'-2"	9'-11"
2 X 9 X 0.082 X 0.306 SMB	38'-7"	36'-2"	34'-1"	32'-2"	30'-4"	28'-4"	26'-6"
2 X 10 X 0.092 X 0.374 SMB	47'-11"	45'-2"	42'-9"	41'-4"	38'-8"	36'-11"	35'-3"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(e)8

Wall Height: 8 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	24'-1"	21'-4"	18'-9"	16'-4"	13'-11"	11'-7"	9'-2"
2 X 9 X 0.082 X 0.306 SMB	39'-4"	36'-10"	34'-7"	32'-7"	30'-7"	28'-7"	26'-8"
2 X 10 X 0.092 X 0.374 SMB	48'-11"	46'-1"	43'-7"	42'-10"	39'-3"	37'-5"	35'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(e)11

Wall Height: 11 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	20'-6"	17'-4"	14'-3"	11'-1"	7'-6"	0'-11"	NA
2 X 9 X 0.082 X 0.306 SMB	37'-3"	34'-8"	32'-4"	30'-1"	27'-9"	25'-6"	23'-6"
2 X 10 X 0.092 X 0.374 SMB	46'-11"	44'-1"	41'-6"	40'-9"	37'-2"	35'-3"	33'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(e)14

Wall Height: 14 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	16'-6"	12'-6"	8'-1"	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	35'-2"	32'-6"	29'-11"	27'-2"	24'-8"	22'-3"	19'-11"
2 X 10 X 0.092 X 0.374 SMB	44'-11"	42'-1"	39'-6"	38'-9"	35'-1"	32'-9"	30'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(a&b)8

Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	31'-11"	29'-2"	26'-4"	23'-8"	21'-1"	18'-8"	16'-4"
2 X 9 X 0.082 X 0.306 SMB	49'-0"	46'-1"	43'-5"	41'-0"	38'-10"	36'-10"	35'-7"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-11"	52'-6"	49'-0"	46'-10"	44'-9"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(a&b)11

Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	29'-3"	25'-10"	22'-7"	19'-6"	16'-5"	13'-4"	9'-10"
2 X 9 X 0.082 X 0.306 SMB	46'-11"	43'-11"	41'-3"	38'-9"	36'-6"	34'-5"	32'-9"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-0"	52'-1"	50'-11"	46'-11"	44'-8"	42'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(a&b)14

Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	25'-11"	22'-0"	18'-3"	14'-5"	10'-1"	3'-8"	NA
2 X 9 X 0.082 X 0.306 SMB	44'-10"	41'-10"	39'-1"	36'-7"	34'-2"	31'-11"	29'-8"
2 X 10 X 0.092 X 0.374 SMB	56'-5"	53'-1"	50'-1"	48'-11"	44'-11"	42'-7"	40'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(a&b)8

Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	26'-9"	22'-11"	19'-3"	15'-7"	11'-7"	6'-6"	NA
2 X 9 X 0.082 X 0.306 SMB	46'-1"	42'-11"	40'-1"	37'-6"	35'-1"	32'-10"	30'-7"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	54'-4"	51'-3"	50'-11"	45'-11"	43'-7"	41'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(a&b)11

Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	22'-4"	17'-9"	12'-9"	6'-3"	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	43'-8"	40'-6"	37'-6"	34'-9"	32'-2"	29'-6"	26'-9"
2 X 10 X 0.092 X 0.374 SMB	55'-8"	52'-2"	49'-0"	48'-9"	43'-7"	41'-2"	38'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(a&b)14

Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	16'-11"	10'-5"	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	41'-5"	38'-0"	34'-11"	31'-11"	28'-9"	25'-7"	22'-5"
2 X 10 X 0.092 X 0.374 SMB	53'-6"	50'-0"	46'-10"	46'-6"	41'-2"	38'-8"	36'-3"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(c)8

Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	29'-1"	25'-8"	22'-5"	19'-3"	16'-2"	12'-11"	9'-5"
2 X 9 X 0.082 X 0.306 SMB	46'-11"	43'-11"	41'-2"	38'-9"	36'-6"	34'-4"	32'-7"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-1"	52'-1"	51'-3"	46'-11"	44'-8"	42'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(c)11

Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	25'-2"	21'-3"	17'-3"	13'-2"	8'-4"	NA	NA
2 X 9 X 0.082 X 0.306 SMB	44'-6"	41'-6"	38'-8"	36'-2"	33'-9"	31'-6"	29'-1"
2 X 10 X 0.092 X 0.374 SMB	56'-2"	52'-9"	49'-9"	48'-11"	44'-7"	42'-3"	40'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(c)14

Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	20'-9"	15'-10"	10'-3"	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	42'-3"	39'-1"	36'-3"	33'-7"	30'-11"	28'-1"	25'-3"
2 X 10 X 0.092 X 0.374 SMB	53'-11"	50'-7"	47'-7"	46'-9"	42'-3"	39'-11"	37'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(c)8

Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	21'-6"	16'-8"	11'-3"	1'-11"	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	43'-5"	40'-1"	37'-1"	34'-4"	31'-8"	28'-10"	26'-1"
2 X 10 X 0.092 X 0.374 SMB	55'-5"	51'-11"	48'-9"	48'-11"	43'-3"	40'-9"	38'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(c)11

Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	14'-10"	6'-6"	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	40'-8"	37'-3"	34'-0"	30'-11"	27'-6"	24'-2"	20'-11"
2 X 10 X 0.092 X 0.374 SMB	52'-11"	49'-5"	46'-2"	46'-4"	40'-6"	37'-11"	35'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(c)14

Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	37'-11"	34'-3"	30'-8"	26'-7"	22'-8"	18'-8"	14'-4"
2 X 10 X 0.092 X 0.374 SMB	50'-7"	46'-11"	43'-8"	43'-11"	37'-8"	34'-10"	31'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(d)8

Wall Height: 8 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	22'-7"	19'-0"	15'-6"	11'-11"	7'-7"	NA	NA
2 X 9 X 0.082 X 0.306 SMB	40'-9"	37'-11"	35'-4"	32'-11"	30'-8"	28'-3"	26'-0"
2 X 10 X 0.092 X 0.374 SMB	51'-5"	48'-3"	45'-6"	45'-3"	40'-8"	38'-6"	36'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(d)11

Wall Height: 11 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	17'-9"	13'-1"	7'-7"	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	38'-4"	35'-5"	32'-8"	29'-11"	27'-1"	24'-5"	21'-11"
2 X 10 X 0.092 X 0.374 SMB	49'-2"	46'-0"	43'-2"	42'-11"	38'-2"	35'-11"	33'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(d)14

Wall Height: 14 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	11'-3"	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	35'-11"	32'-10"	29'-8"	26'-4"	23'-2"	20'-2"	17'-1"
2 X 10 X 0.092 X 0.374 SMB	47'-1"	43'-10"	40'-11"	40'-8"	35'-9"	33'-1"	30'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(d)8

Wall Height: 8 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	12'-9"	4'-7"	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	36'-11"	33'-9"	30'-7"	27'-4"	24'-3"	21'-3"	18'-3"
2 X 10 X 0.092 X 0.374 SMB	48'-3"	44'-11"	41'-11"	42'-11"	36'-7"	34'-1"	31'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(d)11

Wall Height: 11 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	33'-11"	30'-3"	26'-5"	22'-8"	18'-11"	15'-1"	10'-9"
2 X 10 X 0.092 X 0.374 SMB	45'-9"	42'-4"	39'-2"	40'-3"	33'-3"	30'-2"	27'-4"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(d)14

Wall Height: 14 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	30'-8"	26'-1"	21'-7"	16'-11"	11'-10"	3'-11"	NA
2 X 10 X 0.092 X 0.374 SMB	43'-4"	39'-8"	36'-4"	37'-7"	29'-4"	25'-11"	22'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(e)8

Wall Height: 8 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	17'-0"	13'-1"	8'-8"	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	35'-11"	33'-2"	30'-7"	27'-10"	25'-4"	22'-11"	20'-8"
2 X 10 X 0.092 X 0.374 SMB	46'-0"	43'-0"	40'-4"	40'-7"	35'-9"	33'-5"	31'-3"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(e)11

Wall Height: 11 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	10'-5"	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	33'-5"	30'-4"	27'-1"	24'-1"	21'-2"	18'-5"	15'-8"
2 X 10 X 0.092 X 0.374 SMB	43'-9"	40'-9"	37'-11"	38'-3"	32'-9"	30'-2"	27'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(e)14

Wall Height: 14 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	30'-8"	26'-10"	23'-3"	19'-10"	16'-5"	12'-10"	8'-9"
2 X 10 X 0.092 X 0.374 SMB	41'-7"	38'-5"	35'-6"	35'-10"	29'-6"	26'-9"	24'-1"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(e)8

Wall Height: 8 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	31'-8"	27'-11"	24'-6"	21'-1"	17'-10"	14'-5"	10'-9"
2 X 10 X 0.092 X 0.374 SMB	42'-8"	39'-5"	36'-6"	38'-3"	30'-8"	27'-11"	25'-4"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(e)11

Wall Height: 11 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	27'-9"	23'-6"	19'-4"	15'-1"	10'-3"	1'-10"	NA
2 X 10 X 0.092 X 0.374 SMB	40'-0"	36'-7"	33'-2"	35'-5"	26'-6"	23'-5"	20'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(e)14

Wall Height: 14 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	23'-4"	18'-3"	12'-8"	4'-8"	NA	NA	NA
2 X 10 X 0.092 X 0.374 SMB	37'-4"	33'-5"	29'-5"	32'-0"	21'-11"	18'-2"	14'-4"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Shed (Pitched) Beams

Table 101(a&b)8

(10° slope or 5 ft rise, whichever is less) Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-4"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	15'-7"	14'-9"	13'-11"	13'-3"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	19'-11"	18'-10"	17'-10"	16'-11"	16'-1"	15'-4"
2 X 8 X 0.072 X 0.224 SMB	32'-10"	31'-9"	30'-10"	30'-1"	29'-4"	28'-8"	28'-0"
2 X 9 X 0.082 X 0.306 SMB	38'-7"	37'-5"	36'-4"	35'-4"	34'-6"	33'-9"	32'-11"
2 X 10 X 0.092 X 0.374 SMB	45'-0"	43'-8"	42'-5"	41'-3"	40'-3"	39'-4"	38'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(a&b)11

(10° slope or 5 ft rise, whichever is less) Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-5"	11'-10"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-10"	14'-11"	14'-1"	13'-4"	12'-7"
2 X 7 X 0.055 X 0.120 SMB	20'-4"	19'-5"	18'-3"	17'-3"	16'-3"	15'-5"	14'-7"
2 X 8 X 0.072 X 0.224 SMB	32'-10"	31'-9"	30'-10"	30'-1"	29'-4"	28'-8"	28'-0"
2 X 9 X 0.082 X 0.306 SMB	38'-7"	37'-5"	36'-4"	35'-4"	34'-6"	33'-9"	32'-11"
2 X 10 X 0.092 X 0.374 SMB	45'-0"	43'-8"	42'-5"	41'-3"	40'-3"	39'-4"	38'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(a&b)14

(10° slope or 5 ft rise, whichever is less) Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 100/110 mph Exposure B Wall Design Pressure: 13 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-10"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-7"	11'-11"	11'-3"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-4"	14'-4"	13'-6"	12'-8"	11'-10"
2 X 7 X 0.055 X 0.120 SMB	20'-3"	18'-10"	17'-8"	16'-7"	15'-7"	14'-8"	13'-10"
2 X 8 X 0.072 X 0.224 SMB	32'-10"	31'-9"	30'-10"	30'-1"	29'-4"	28'-8"	28'-0"
2 X 9 X 0.082 X 0.306 SMB	38'-7"	37'-5"	36'-4"	35'-4"	34'-6"	33'-9"	32'-11"
2 X 10 X 0.092 X 0.374 SMB	45'-0"	43'-8"	42'-5"	41'-3"	40'-3"	39'-4"	38'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Shed (Pitched) Beams

Table 101(c)8

(10° slope or 5 ft rise, whichever is less) Wall Height: 8 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-8"	12'-2"	11'-6"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	15'-6"	14'-7"	13'-9"	13'-0"	12'-4"
2 X 7 X 0.055 X 0.120 SMB	20'-3"	18'-11"	17'-10"	16'-10"	15'-10"	15'-0"	14'-3"
2 X 8 X 0.072 X 0.224 SMB	32'-2"	31'-2"	30'-4"	29'-6"	28'-9"	28'-2"	27'-6"
2 X 9 X 0.082 X 0.306 SMB	37'-11"	36'-9"	35'-8"	34'-9"	33'-10"	33'-1"	32'-5"
2 X 10 X 0.092 X 0.374 SMB	44'-3"	42'-10"	41'-7"	40'-6"	39'-6"	38'-8"	37'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(c)11

(10° slope or 5 ft rise, whichever is less) Wall Height: 11 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-7"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-8"	12'-3"	11'-7"	10'-11"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-10"	14'-11"	13'-11"	13'-1"	12'-3"	11'-6"
2 X 7 X 0.055 X 0.120 SMB	19'-8"	18'-4"	17'-2"	16'-1"	15'-1"	14'-3"	13'-5"
2 X 8 X 0.072 X 0.224 SMB	32'-2"	31'-2"	30'-4"	29'-6"	28'-9"	28'-2"	27'-6"
2 X 9 X 0.082 X 0.306 SMB	37'-11"	36'-9"	35'-8"	34'-9"	33'-10"	33'-1"	32'-5"
2 X 10 X 0.092 X 0.374 SMB	44'-3"	42'-10"	41'-7"	40'-6"	39'-6"	38'-8"	37'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(c)14

(10° slope or 5 ft rise, whichever is less) Wall Height: 14 ft Roof Design Pressure: 4 psf
Wind Zone 120 mph Exposure B Wall Design Pressure: 15 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-11"	7'-5"	6'-10"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-8"	12'-5"	11'-8"	10'-11"	10'-3"
2 X 6 X 0.050 X 0.120 SMB	15'-10"	15'-4"	14'-3"	13'-3"	12'-3"	11'-5"	10'-7"
2 X 7 X 0.055 X 0.120 SMB	19'-0"	17'-8"	16'-5"	15'-4"	14'-4"	13'-4"	12'-6"
2 X 8 X 0.072 X 0.224 SMB	32'-2"	31'-2"	30'-4"	29'-6"	28'-9"	28'-2"	27'-4"
2 X 9 X 0.082 X 0.306 SMB	37'-11"	36'-9"	35'-8"	34'-9"	33'-10"	33'-1"	32'-5"
2 X 10 X 0.092 X 0.374 SMB	44'-3"	42'-10"	41'-7"	40'-6"	39'-6"	38'-8"	37'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Shed (Pitched) Beams

Table 101(d)8

(10° slope or 5 ft rise, whichever is less) Wall Height: 8 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-11"	7'-9"	7'-2"	6'-8"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	12'-4"	11'-7"	10'-11"	10'-4"	9'-9"
2 X 6 X 0.050 X 0.120 SMB	15'-4"	14'-3"	13'-4"	12'-5"	11'-8"	10'-11"	10'-3"
2 X 7 X 0.055 X 0.120 SMB	17'-7"	16'-5"	15'-4"	14'-4"	13'-6"	12'-8"	11'-11"
2 X 8 X 0.072 X 0.224 SMB	30'-1"	29'-1"	28'-3"	27'-6"	26'-10"	26'-2"	25'-1"
2 X 9 X 0.082 X 0.306 SMB	35'-4"	34'-3"	33'-3"	32'-5"	31'-7"	30'-11"	30'-3"
2 X 10 X 0.092 X 0.374 SMB	41'-3"	39'-11"	38'-10"	37'-10"	36'-11"	36'-1"	35'-3"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(d)11

(10° slope or 5 ft rise, whichever is less) Wall Height: 11 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-11"	7'-8"	7'-0"	6'-5"	5'-10"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-8"	11'-10"	11'-0"	10'-4"	9'-8"	9'-0"
2 X 6 X 0.050 X 0.120 SMB	14'-8"	13'-7"	12'-7"	11'-8"	10'-9"	9'-11"	9'-3"
2 X 7 X 0.055 X 0.120 SMB	16'-11"	15'-8"	14'-7"	13'-7"	12'-7"	11'-9"	10'-11"
2 X 8 X 0.072 X 0.224 SMB	30'-1"	29'-1"	28'-3"	27'-6"	26'-9"	25'-7"	24'-5"
2 X 9 X 0.082 X 0.306 SMB	35'-4"	34'-3"	33'-3"	32'-5"	31'-7"	30'-11"	30'-3"
2 X 10 X 0.092 X 0.374 SMB	41'-3"	39'-11"	38'-10"	37'-10"	36'-11"	36'-1"	35'-3"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(d)14

(10° slope or 5 ft rise, whichever is less) Wall Height: 14 ft Roof Design Pressure: 5 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 18 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-9"	6'-11"	6'-3"	5'-6"	4'-10"
2 X 5 X 0.050 X 0.116 SMB	12'-8"	12'-2"	11'-3"	10'-5"	9'-8"	8'-11"	8'-3"
2 X 6 X 0.050 X 0.120 SMB	14'-1"	12'-10"	11'-9"	10'-10"	9'-10"	8'-11"	8'-2"
2 X 7 X 0.055 X 0.120 SMB	16'-3"	14'-11"	13'-9"	12'-8"	11'-8"	10'-9"	9'-10"
2 X 8 X 0.072 X 0.224 SMB	30'-1"	29'-1"	28'-3"	27'-6"	26'-1"	24'-10"	23'-9"
2 X 9 X 0.082 X 0.306 SMB	35'-4"	34'-3"	33'-3"	32'-5"	31'-7"	30'-11"	30'-3"
2 X 10 X 0.092 X 0.374 SMB	41'-3"	39'-11"	38'-10"	37'-10"	36'-11"	36'-1"	35'-3"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Shed (Pitched) Beams

Table 101(e)8

(10° slope or 5 ft rise, whichever is less) Wall Height: 8 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-11"	7'-8"	7'-1"	6'-5"	5'-11"	5'-4"
2 X 5 X 0.050 X 0.116 SMB	12'-6"	11'-8"	10'-10"	10'-2"	9'-6"	8'-10"	8'-3"
2 X 6 X 0.050 X 0.120 SMB	13'-6"	12'-6"	11'-6"	10'-8"	9'-11"	9'-2"	8'-6"
2 X 7 X 0.055 X 0.120 SMB	15'-6"	14'-5"	13'-4"	12'-5"	11'-7"	10'-9"	10'-0"
2 X 8 X 0.072 X 0.224 SMB	28'-5"	27'-6"	26'-8"	25'-10"	24'-7"	23'-5"	22'-5"
2 X 9 X 0.082 X 0.306 SMB	33'-5"	32'-4"	31'-5"	30'-7"	29'-10"	29'-2"	28'-7"
2 X 10 X 0.092 X 0.374 SMB	38'-11"	37'-9"	36'-8"	35'-9"	34'-10"	34'-1"	33'-4"

Allowable Spans for Shed (Pitched) Beams

Table 101(e)11

(10° slope or 5 ft rise, whichever is less) Wall Height: 11 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-9"	6'-11"	6'-3"	5'-7"	4'-11"	4'-3"
2 X 5 X 0.050 X 0.116 SMB	11'-11"	11'-1"	10'-3"	9'-6"	8'-9"	8'-1"	7'-6"
2 X 6 X 0.050 X 0.120 SMB	12'-9"	11'-8"	10'-8"	9'-9"	8'-11"	8'-1"	7'-3"
2 X 7 X 0.055 X 0.120 SMB	14'-10"	13'-7"	12'-6"	11'-6"	10'-7"	9'-8"	8'-10"
2 X 8 X 0.072 X 0.224 SMB	28'-5"	27'-6"	26'-6"	25'-2"	23'-10"	22'-9"	21'-8"
2 X 9 X 0.082 X 0.306 SMB	33'-5"	32'-4"	31'-5"	30'-7"	29'-10"	29'-2"	28'-5"
2 X 10 X 0.092 X 0.374 SMB	38'-11"	37'-9"	36'-8"	35'-9"	34'-10"	34'-1"	33'-4"

Allowable Spans for Shed (Pitched) Beams

Table 101(e)14

(10° slope or 5 ft rise, whichever is less) Wall Height: 14 ft Roof Design Pressure: 6 psf
Wind Zone 140 mph Exposure B Wall Design Pressure: 21 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-11"	7'-0"	6'-2"	5'-4"	4'-7"	3'-8"	2'-9"
2 X 5 X 0.050 X 0.116 SMB	11'-5"	10'-5"	9'-7"	8'-9"	7'-11"	7'-3"	6'-6"
2 X 6 X 0.050 X 0.120 SMB	12'-0"	10'-10"	9'-9"	8'-9"	7'-9"	6'-10"	5'-10"
2 X 7 X 0.055 X 0.120 SMB	14'-0"	12'-9"	11'-7"	10'-6"	9'-5"	8'-5"	7'-5"
2 X 8 X 0.072 X 0.224 SMB	28'-5"	27'-6"	25'-11"	24'-5"	23'-2"	21'-11"	20'-10"
2 X 9 X 0.082 X 0.306 SMB	33'-5"	32'-4"	31'-5"	30'-7"	29'-10"	29'-0"	27'-9"
2 X 10 X 0.092 X 0.374 SMB	38'-11"	37'-9"	36'-8"	35'-9"	34'-10"	34'-1"	33'-4"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Primary Members In Screen Walls (Posts/Columns)

Table 102 a&b

Wind Zone = 110 MPH Applied Unit Load = 13.0 PSF Exposure B

Post / Column	Load Widths or Spacing								
	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2" X 2" X 0.046" X 0.046" Hollow	6'-3"	5'-11"	5'-7"	5'-4"	5'-1"	4'-11"	4'-9"	4'-7"	4'-5"
2" X 3" X 0.05" X 0.05" Hollow	9'-2"	8'-7"	8'-2"	7'-9"	7'-6"	7'-2"	6'-11"	6'-8"	6'-6"
2" X 3" X 0.05" X 0.05" Snap	9'-10"	9'-3"	8'-9"	8'-4"	8'-0"	7'-8"	7'-5"	7'-2"	6'-11"
2" X 4" X 0.050" X 0.050" Hollow	10'-7"	9'-11"	9'-6"	9'-0"	8'-8"	8'-4"	8'-0"	7'-9"	7'-6"
2" X 4" X 0.05" X 0.05" Snap	11'-9"	11'-1"	10'-6"	9'-11"	9'-7"	9'-2"	8'-10"	8'-7"	8'-3"
2" X 5" X 0.050" X 0.050" Hollow	10'-11"	10'-4"	9'-9"	9'-4"	8'-11"	8'-7"	8'-3"	7'-11"	7'-9"
2"X4"X0.046"X0.10" SMB	10'-0"	9'-5"	8'-11"	8'-7"	8'-2"	7'-10"	7'-7"	7'-4"	7'-1"
2"X5"X0.05"X0.116" SMB	12'-5"	11'-8"	11'-1"	10'-7"	10'-1"	9'-9"	9'-4"	9'-0"	8'-9"
2"X6"X0.05"X0.12" SMB	13'-4"	12'-6"	11'-11"	11'-4"	10'-10"	10'-5"	10'-1"	9'-8"	9'-5"
2"X7"X0.055"X0.12" SMB	14'-9"	13'-11"	13'-3"	12'-7"	12'-1"	11'-7"	11'-2"	10'-10"	10'-5"
2"X8X.072"X0.224" SMB	27'-8"	26'-1"	24'-9"	23'-7"	22'-7"	21'-8"	20'-11"	20'-2"	19'-6"
2"X9"X.082"X.306" SMB	35'-8"	34'-4"	33'-2"	32'-1"	30'-9"	29'-6"	28'-5"	27'-6"	26'-7"
2"X10"X.092"X.389" SMB	41'-8"	40'-1"	38'-8"	37'-6"	36'-3"	34'-10"	33'-7"	32'-5"	31'-5"

ALLOWABLE SPANS for Primary Members In Screen Walls (Posts/Columns)

Table 102 c

Wind Zone = 120 MPH Applied Unit Load = 15.0 PSF Exposure B

Post / Column	Load Widths or Spacing								
	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2" X 2" X 0.046" X 0.046" Hollow	5'-10"	5'-6"	5'-2"	4'-11"	4'-9"	4'-7"	4'-5"	4'-3"	4'-1"
2" X 3" X 0.05" X 0.05" Hollow	8'-6"	8'-0"	7'-7"	7'-3"	6'-11"	6'-8"	6'-5"	6'-3"	6'-0"
2" X 3" X 0.05" X 0.05" Snap	9'-2"	8'-7"	8'-2"	7'-9"	7'-5"	7'-2"	6'-11"	6'-8"	6'-5"
2" X 4" X 0.050" X 0.050" Hollow	9'-10"	9'-3"	8'-10"	8'-5"	8'-1"	7'-9"	7'-5"	7'-2"	6'-11"
2" X 4" X 0.05" X 0.05" Snap	10'-11"	10'-3"	9'-9"	9'-4"	8'-11"	8'-7"	8'-3"	7'-11"	7'-9"
2" X 5" X 0.050" X 0.050" Hollow	10'-2"	9'-7"	9'-1"	8'-8"	8'-4"	7'-11"	7'-8"	7'-5"	7'-2"
2"X4"X0.046"X0.10" SMB	9'-4"	8'-10"	8'-4"	7'-11"	7'-7"	7'-4"	7'-1"	6'-10"	6'-7"
2"X5"X0.05"X0.116" SMB	11'-6"	10'-10"	10'-4"	9'-10"	9'-5"	9'-0"	8'-9"	8'-5"	8'-2"
2"X6"X0.05"X0.12" SMB	12'-4"	11'-8"	11'-1"	10'-7"	10'-1"	9'-8"	9'-4"	9'-0"	8'-9"
2"X7"X0.055"X0.12" SMB	13'-9"	12'-11"	12'-4"	11'-9"	11'-3"	10'-10"	10'-5"	10'-1"	9'-9"
2"X8X.072"X0.224" SMB	25'-9"	24'-3"	23'-0"	21'-11"	21'-0"	20'-2"	19'-5"	18'-9"	18'-2"
2"X9"X.082"X.306" SMB	34'-0"	32'-9"	31'-4"	29'-10"	28'-7"	27'-6"	26'-6"	25'-7"	24'-9"
2"X10"X.092"X.389" SMB	39'-9"	38'-2"	36'-10"	35'-3"	33'-9"	32'-5"	31'-3"	30'-2"	29'-3"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Primary Members In Screen Walls (Posts/Columns)

Table 102 d

Wind Zone = 130 MPH Applied Unit Load = 18.0 PSF Exposure B

Post / Column	Load Widths or Spacing								
	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2" X 2" X 0.046" X 0.046" Hollow	5'-4"	5'-0"	4'-9"	4'-6"	4'-4"	4'-2"	4'-0"	3'-11"	3'-9"
2" X 3" X 0.05" X 0.05" Hollow	7'-9"	7'-4"	6'-11"	6'-7"	6'-4"	6'-1"	5'-10"	5'-8"	5'-6"
2" X 3" X 0.05" X 0.05" Snap	8'-4"	7'-10"	7'-5"	7'-1"	6'-10"	6'-6"	6'-4"	6'-1"	5'-11"
2" X 4" X 0.050" X 0.050" Hollow	8'-11"	8'-6"	8'-1"	7'-8"	7'-4"	7'-1"	6'-10"	6'-7"	6'-4"
2" X 4" X 0.05" X 0.05" Snap	9'-11"	9'-5"	8'-11"	8'-6"	8'-2"	7'-10"	7'-6"	7'-3"	7'-0"
2" X 5" X 0.050" X 0.050" Hollow	9'-4"	8'-9"	8'-4"	7'-11"	7'-7"	7'-4"	7'-0"	6'-10"	6'-7"
2"X4"X0.046"X0.10" SMB	8'-6"	8'-0"	7'-7"	7'-3"	6'-11"	6'-8"	6'-5"	6'-3"	6'-0"
2"X5"X0.05"X0.116" SMB	10'-6"	9'-11"	9'-5"	8'-11"	8'-7"	8'-3"	7'-11"	7'-8"	7'-5"
2"X6"X0.05"X0.12" SMB	11'-4"	10'-8"	10'-1"	9'-8"	9'-3"	8'-10"	8'-6"	8'-3"	7'-11"
2"X7"X0.055"X0.12" SMB	12'-7"	11'-10"	11'-3"	10'-9"	10'-3"	9'-10"	9'-6"	9'-2"	8'-11"
2"X8X.072"X0.224" SMB	23'-6"	22'-2"	21'-0"	20'-0"	19'-2"	18'-5"	17'-9"	17'-2"	16'-7"
2"X9"X.082"X.306" SMB	31'-11"	30'-2"	28'-7"	27'-3"	26'-1"	25'-1"	24'-2"	23'-4"	22'-7"
2"X10"X.092"X.389" SMB	37'-4"	35'-7"	33'-9"	32'-2"	30'-10"	29'-7"	28'-6"	27'-7"	26'-8"

ALLOWABLE SPANS for Primary Members In Screen Walls (Posts/Columns)

Table 102 e

Wind Zone = 140 MPH Applied Unit Load = 21.0 PSF Exposure B

Post / Column	Load Widths or Spacing								
	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2" X 2" X 0.046" X 0.046" Hollow	4'-11"	4'-8"	4'-5"	4'-2"	4'-0"	3'-10"	3'-9"	3'-7"	3'-6"
2" X 3" X 0.05" X 0.05" Hollow	7'-2"	6'-9"	6'-5"	6'-2"	5'-10"	5'-8"	5'-5"	5'-3"	5'-1"
2" X 3" X 0.05" X 0.05" Snap	7'-9"	7'-3"	6'-11"	6'-7"	6'-4"	6'-1"	5'-10"	5'-8"	5'-5"
2" X 4" X 0.050" X 0.050" Hollow	8'-4"	7'-10"	7'-5"	7'-1"	6'-10"	6'-6"	6'-4"	6'-1"	5'-11"
2" X 4" X 0.05" X 0.05" Snap	9'-3"	8'-8"	8'-3"	7'-10"	7'-6"	7'-3"	6'-11"	6'-9"	6'-6"
2" X 5" X 0.050" X 0.050" Hollow	8'-7"	8'-1"	7'-8"	7'-4"	7'-0"	6'-9"	6'-6"	6'-3"	6'-1"
2"X4"X0.046"X0.10" SMB	7'-11"	7'-5"	7'-1"	6'-9"	6'-5"	6'-2"	5'-11"	5'-9"	5'-7"
2"X5"X0.05"X0.116" SMB	9'-9"	9'-2"	8'-9"	8'-4"	7'-11"	7'-8"	7'-4"	7'-1"	6'-11"
2"X6"X0.05"X0.12" SMB	10'-6"	9'-10"	9'-4"	8'-11"	8'-6"	8'-2"	7'-11"	7'-8"	7'-5"
2"X7"X0.055"X0.12" SMB	11'-8"	10'-11"	10'-5"	9'-11"	9'-6"	9'-1"	8'-9"	8'-6"	8'-3"
2"X8X.072"X0.224" SMB	21'-9"	20'-6"	19'-5"	18'-6"	17'-9"	17'-1"	16'-5"	15'-11"	15'-4"
2"X9"X.082"X.306" SMB	29'-7"	27'-11"	26'-6"	25'-3"	24'-2"	23'-3"	22'-4"	21'-7"	20'-11"
2"X10"X.092"X.389" SMB	34'-11"	32'-11"	31'-3"	29'-10"	28'-6"	27'-5"	26'-5"	25'-6"	24'-8"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

**ALLOWABLE SPANS for SECONDARY SCREEN WALL MEMBERS
(GIRTS OR CHAIR RAILS)**

Table 104

FOR 100&110 mph Wind Zones
Unit Load = 13 lbs/sqft

Table 104a&b

	Load Width / Spacing						
Extrusion	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
2X2X.046 Hollow	6'-9"	6'-7"	6'-5"	6'-4"	6'-3"	6'-3"	6'-4"
2X3X.050 Hollow	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X4X.05"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X3X.072"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"

Maximum Spacing (Vertical) 7 ft o.c.; maximum allowable span 7' 10"

FOR 120 mph Wind Zone

Table 104c

Unit Load = 15 lbs/sqft

	Load Width / Spacing						
Extrusion	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
2X2X.046 Hollow	6'-2"	5'-11"	5'-10"	5'-9"	5'-9"	5'-9"	5'-9"
2X3X.050 Hollow	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X4X.05"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X3X.072"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"

Maximum Spacing (Vertical) 7 ft o.c.; maximum allowable span 7' 10"

FOR 130 mph Wind Zone

Table 104d

Unit Load = 18 lbs/sqft

	Load Width / Spacing						
Extrusion	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
2X2X.046 Hollow	5'-6"	5'-4"	5'-3"	5'-2"	5'-1"	5'-1"	5'-2"
2X3X.050 Hollow	7'-10"	7'-10"	7'-8"	7'-7"	7'-6"	7'-6"	7'-7"
2X4X.05"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X3X.072"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"

Maximum Spacing (Vertical) 7 ft o.c.; maximum allowable span 7' 10"

FOR 140 mph Wind Zone

Table 104e

Unit Load = 21 lbs/sqft

	Load Width / Spacing						
Extrusion	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
2X2X.046 Hollow	4'-11"	4'-10"	4'-9"	4'-8"	4'-8"	4'-8"	4'-8"
2X3X.050 Hollow	7'-5"	7'-3"	7'-1"	6'-11"	6'-11"	6'-11"	6'-11"
2X4X.05"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X3X.072"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"

Maximum Spacing (Vertical) 7 ft o.c.; maximum allowable span 7' 10"

NOTE (Table 104): maximum span of 7' 10" governed by maximum post spacing of 8' 0"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins

Table 103

FLAT (HORIZONTAL) PURLINS

6005T5 Alloy

FOR ALL WIND ZONES / FLAT (horizontal) PURLINS

Spans Limited by 300# Live Load for:

2 X 2 X .046" Hollow: Maximum Span = 4' 4"

Otherwise, extrusions listed below, maximum span equal to or greater than 8' 0" for spacings from 5' 0" to 8' 0"

2 X 3 X 0.050 X 0.050 Hollow

2 X 4 X 0.050 X 0.050 Hollow

2 X 3 X 0.072 X 0.072 Hollow

2 X 4 X 0.046 X 0.100 SMB

2 X 5 X 0.050 X 0.116 SMB

2 X 6 X 0.050 X 0.120 SMB

2 X 7 X 0.055 X 0.120 SMB

3 X 3 X 0.072 X 0.072 Hollow

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure B** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 3 ft)

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 3 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	8'-0"	8'-0"	8'-0"	7'-11"	7'-8"	7'-4"	7'-0"
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-2"	7'-10"	7'-5"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-3"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 3 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	8'-0"	8'-0"	7'-11"	7'-7"	7'-3"	6'-10"	6'-6"
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-1"	7'-8"	7'-3"	6'-10"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-3"	7'-10"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 3 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	8'-0"	8'-0"	7'-7"	7'-2"	6'-9"	6'-4"	5'-11"
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	7'-11"	7'-6"	7'-1"	6'-7"	6'-2"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-2"	7'-8"	7'-3"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure B** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 3 ft)

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 3 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	8'-0"	8'-0"	7'-8"	7'-4"	6'-11"	6'-8"	6'-4"
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	7'-9"	7'-5"	7'-0"	6'-8"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-3"	7'-11"	7'-7"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-3"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 3 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	8'-0"	7'-7"	7'-3"	6'-10"	6'-5"	6'-1"	5'-9"
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	7'-8"	7'-2"	6'-9"	6'-4"	5'-11"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"	7'-4"	6'-11"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-3"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-1"	7'-8"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 3 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	7'-8"	7'-2"	6'-9"	6'-4"	5'-11"	5'-6"	NA
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	7'-7"	7'-1"	6'-7"	6'-1"	5'-7"	5'-2"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	7'-8"	7'-2"	6'-8"	6'-2"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-2"	7'-9"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	7'-11"	7'-6"	7'-0"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure B** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 3 ft)

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 3 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	7'-4"	6'-11"	6'-7"	6'-3"	5'-11"	5'-7"	5'-3"
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	7'-5"	6'-11"	6'-7"	6'-2"	5'-10"	5'-5"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	7'-11"	7'-6"	7'-1"	6'-9"	6'-4"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-11"	7'-7"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"	7'-4"	7'-0"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 3 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-11"	6'-6"	6'-1"	5'-8"	5'-3"	4'-11"	NA
2 X 4 X 0.050 X 0.050 Hollow	7'-4"	6'-10"	6'-4"	5'-11"	5'-5"	5'-0"	4'-7"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	7'-10"	7'-4"	6'-10"	6'-5"	5'-11"	5'-6"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"	7'-4"	6'-11"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	7'-7"	7'-2"	6'-8"	6'-3"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-1"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 3 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-5"	5'-11"	5'-6"	5'-1"	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-9"	6'-3"	5'-8"	5'-2"	4'-7"	4'-0"	3'-5"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	7'-3"	6'-8"	6'-2"	5'-8"	5'-1"	4'-7"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	7'-8"	7'-2"	6'-9"	6'-4"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	7'-6"	6'-11"	6'-6"	5'-11"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-11"	7'-5"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure B** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 3 ft)

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 3 ft) **Wall Height = 8 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-5"	6'-1"	5'-9"	5'-4"	5'-0"	4'-8"	4'-4"
2 X 4 X 0.050 X 0.050 Hollow	6'-10"	6'-5"	6'-0"	5'-7"	5'-2"	4'-10"	4'-5"
2 X 3 X 0.072 X 0.072 Hollow	7'-7"	7'-4"	6'-11"	6'-6"	6'-1"	5'-8"	5'-3"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	7'-8"	7'-3"	6'-11"	6'-6"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	7'-6"	7'-1"	6'-9"	6'-4"	5'-11"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-11"	7'-7"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 3 ft) **Wall Height = 11 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-11"	5'-7"	5'-1"	4'-8"	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-3"	5'-9"	5'-3"	4'-10"	4'-4"	3'-9"	3'-3"
2 X 3 X 0.072 X 0.072 Hollow	7'-2"	6'-8"	6'-3"	5'-9"	5'-3"	4'-9"	4'-3"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	7'-6"	7'-1"	6'-8"	6'-3"	5'-10"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	7'-5"	6'-11"	6'-5"	5'-11"	5'-7"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"	7'-4"	6'-11"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-1"

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 3 ft) **Wall Height = 14 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-5"	4'-11"	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-8"	5'-1"	4'-6"	3'-10"	3'-2"	2'-4"	1'-4"
2 X 3 X 0.072 X 0.072 Hollow	6'-7"	6'-0"	5'-5"	4'-10"	4'-3"	3'-7"	2'-11"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	7'-5"	6'-11"	6'-6"	6'-0"	5'-7"	5'-1"
2 X 5 X 0.050 X 0.050 Hollow	7'-4"	6'-10"	6'-3"	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	7'-7"	7'-1"	6'-7"	6'-2"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-10"	7'-4"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure B** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 4 ft)

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 4 ft) **Wall Height = 8 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	8'-0"	8'-0"	7'-5"	7'-2"	6'-10"	6'-6"	6'-3"
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	7'-7"	7'-3"	6'-11"	6'-7"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-10"	7'-6"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 4 ft) **Wall Height = 11 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	8'-0"	8'-0"	7'-0"	6'-8"	6'-4"	6'-0"	5'-8"
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	7'-5"	7'-1"	6'-8"	6'-4"	5'-11"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	7'-8"	7'-3"	6'-11"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-8"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 4 ft) **Wall Height = 14 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	8'-0"	6'-11"	6'-7"	6'-3"	5'-10"	5'-6"	NA
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	6'-11"	6'-6"	6'-1"	5'-7"	5'-2"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	7'-6"	7'-1"	6'-8"	6'-2"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-6"	7'-1"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure B** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 4 ft)

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 4 ft) **Wall Height = 8 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	8'-0"	7'-0"	6'-9"	6'-5"	6'-1"	5'-10"	5'-6"
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	7'-2"	6'-9"	6'-5"	6'-1"	5'-9"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	7'-5"	7'-0"	6'-8"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-11"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-8"	7'-4"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 4 ft) **Wall Height = 11 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-11"	6'-7"	6'-3"	5'-11"	5'-7"	5'-3"	NA
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	6'-11"	6'-7"	6'-2"	5'-9"	5'-4"	4'-11"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	7'-2"	6'-9"	6'-4"	5'-11"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"	7'-5"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	7'-6"	7'-1"	6'-8"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 4 ft) **Wall Height = 14 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-7"	6'-2"	5'-10"	5'-5"	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-11"	6'-6"	6'-0"	5'-6"	5'-0"	4'-6"	3'-11"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	7'-0"	6'-7"	6'-1"	5'-7"	5'-1"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-7"	7'-3"	6'-10"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	7'-4"	6'-11"	6'-5"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure B** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 4 ft)

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 4 ft) **Wall Height = 8 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-3"	5'-11"	5'-8"	5'-4"	5'-0"	4'-8"	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-8"	6'-4"	5'-11"	5'-7"	5'-2"	4'-10"	4'-5"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	7'-3"	6'-10"	6'-6"	6'-1"	5'-8"	5'-4"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-4"	7'-0"	6'-8"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	7'-2"	6'-9"	6'-5"	6'-1"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 4 ft) **Wall Height = 11 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-10"	5'-6"	5'-2"	4'-9"	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-2"	5'-9"	5'-4"	4'-10"	4'-4"	3'-10"	3'-4"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	6'-8"	6'-3"	5'-9"	5'-4"	4'-10"	4'-4"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	7'-2"	6'-10"	6'-5"	6'-0"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	6'-11"	6'-6"	6'-1"	5'-8"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-6"	7'-1"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 4 ft) **Wall Height = 14 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-5"	4'-11"	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-7"	5'-1"	4'-7"	3'-11"	3'-4"	2'-7"	1'-7"
2 X 3 X 0.072 X 0.072 Hollow	6'-7"	6'-1"	5'-7"	5'-0"	4'-5"	3'-10"	3'-1"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	7'-1"	6'-8"	6'-2"	5'-9"	5'-4"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	6'-10"	6'-4"	5'-10"	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-4"	6'-11"	6'-5"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-8"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure B** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 4 ft)

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 4 ft) **Wall Height = 8 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-5"	5'-2"	4'-10"	4'-5"	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-9"	5'-4"	4'-11"	4'-7"	4'-1"	3'-8"	3'-2"
2 X 3 X 0.072 X 0.072 Hollow	6'-7"	6'-2"	5'-10"	5'-5"	4'-11"	4'-7"	4'-2"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	7'-0"	6'-8"	6'-4"	5'-11"	5'-8"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	6'-10"	6'-6"	6'-1"	5'-9"	5'-4"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-4"	7'-0"	6'-8"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 4 ft) **Wall Height = 11 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	4'-11"	4'-7"	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-2"	4'-8"	4'-2"	3'-7"	3'-0"	2'-3"	1'-4"
2 X 3 X 0.072 X 0.072 Hollow	6'-0"	5'-7"	5'-1"	4'-7"	4'-0"	3'-5"	2'-10"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	6'-10"	6'-6"	6'-1"	5'-8"	5'-3"	4'-10"
2 X 5 X 0.050 X 0.050 Hollow	6'-8"	6'-3"	5'-10"	5'-5"	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	7'-2"	6'-9"	6'-4"	5'-11"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-5"	6'-11"

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 4 ft) **Wall Height = 14 ft**

	Load Width / Spacing						
Extrusion (Purlin)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	4'-6"	3'-10"	3'-2"	2'-4"	1'-0"	NA	NA
2 X 3 X 0.072 X 0.072 Hollow	5'-5"	4'-10"	4'-3"	3'-7"	2'-9"	1'-9"	NA
2 X 5 X 0.050 X 0.116 SMB	6'-10"	6'-4"	5'-11"	5'-5"	4'-11"	4'-6"	NA
2 X 5 X 0.050 X 0.050 Hollow	6'-2"	5'-8"	NA	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	7'-0"	6'-6"	6'-0"	5'-6"	5'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-2"	6'-8"	6'-2"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Flat (Horizontal) Beams

Table 101(a&b)8

Wall Height: 8 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	19'-2"	19'-2"	19'-2"	19'-2"	19'-2"	19'-2"
2 X 7 X 0.055 X 0.120 SMB	24'-5"	24'-5"	24'-5"	24'-5"	24'-5"	23'-11"	23'-0"
2 X 8 X 0.072 X 0.224 SMB	37'-1"	35'-11"	34'-10"	33'-11"	33'-1"	32'-4"	31'-8"
2 X 9 X 0.082 X 0.306 SMB	43'-7"	42'-3"	41'-0"	39'-11"	38'-11"	38'-1"	37'-3"
2 X 10 X 0.092 X 0.374 SMB	50'-11"	49'-4"	47'-11"	46'-8"	45'-6"	44'-5"	43'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(a&b)11

Wall Height: 11 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	19'-2"	19'-2"	19'-2"	19'-2"	19'-2"	19'-2"
2 X 7 X 0.055 X 0.120 SMB	24'-5"	24'-5"	24'-5"	24'-5"	24'-2"	23'-1"	22'-2"
2 X 8 X 0.072 X 0.224 SMB	37'-1"	35'-11"	34'-10"	33'-11"	33'-1"	32'-4"	31'-8"
2 X 9 X 0.082 X 0.306 SMB	43'-7"	42'-3"	41'-0"	39'-11"	38'-11"	38'-1"	37'-3"
2 X 10 X 0.092 X 0.374 SMB	50'-11"	49'-4"	47'-11"	46'-8"	45'-6"	44'-5"	43'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(a&b)14

Wall Height: 14 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	19'-2"	19'-2"	19'-2"	19'-2"	19'-2"	18'-8"
2 X 7 X 0.055 X 0.120 SMB	24'-5"	24'-5"	24'-5"	24'-5"	23'-4"	22'-3"	21'-4"
2 X 8 X 0.072 X 0.224 SMB	37'-1"	35'-11"	34'-10"	33'-11"	33'-1"	32'-4"	31'-8"
2 X 9 X 0.082 X 0.306 SMB	43'-7"	42'-3"	41'-0"	39'-11"	38'-11"	38'-1"	37'-3"
2 X 10 X 0.092 X 0.374 SMB	50'-11"	49'-4"	47'-11"	46'-8"	45'-6"	44'-5"	43'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Flat (Horizontal) Beams

Table 101(c)8

Self-Mating (or Lap) Beams	Wind Zone		Wall Height: 8 ft	Roof Design Pressure: 5.2 psf			
	120 mph Exposure C		120 mph Exposure C	Wall Design Pressure: 18.1 psf			
Beam Spacing in Feet							
	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	19'-2"	19'-2"	19'-2"	19'-2"	18'-11"	18'-2"
2 X 7 X 0.055 X 0.120 SMB	24'-5"	24'-5"	24'-5"	23'-5"	22'-5"	21'-6"	20'-8"
2 X 8 X 0.072 X 0.224 SMB	34'-10"	33'-9"	32'-10"	31'-11"	31'-2"	30'-5"	29'-10"
2 X 9 X 0.082 X 0.306 SMB	41'-0"	39'-9"	38'-7"	37'-7"	36'-8"	35'-10"	35'-1"
2 X 10 X 0.092 X 0.374 SMB	47'-11"	46'-5"	45'-1"	43'-11"	42'-10"	41'-10"	40'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(c)11

Self-Mating (or Lap) Beams	Wind Zone		Wall Height: 11 ft	Roof Design Pressure: 5.2 psf			
	120 mph Exposure C		120 mph Exposure C	Wall Design Pressure: 18.1 psf			
Beam Spacing in Feet							
	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	19'-2"	19'-2"	19'-2"	18'-11"	18'-1"	17'-4"
2 X 7 X 0.055 X 0.120 SMB	24'-5"	24'-5"	23'-9"	22'-8"	21'-7"	20'-8"	19'-9"
2 X 8 X 0.072 X 0.224 SMB	34'-10"	33'-9"	32'-10"	31'-11"	31'-2"	30'-5"	29'-10"
2 X 9 X 0.082 X 0.306 SMB	41'-0"	39'-9"	38'-7"	37'-7"	36'-8"	35'-10"	35'-1"
2 X 10 X 0.092 X 0.374 SMB	47'-11"	46'-5"	45'-1"	43'-11"	42'-10"	41'-10"	40'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(c)14

Self-Mating (or Lap) Beams	Wind Zone		Wall Height: 14 ft	Roof Design Pressure: 5.2 psf			
	120 mph Exposure C		120 mph Exposure C	Wall Design Pressure: 18.1 psf			
Beam Spacing in Feet							
	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-2"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	19'-2"	19'-2"	19'-1"	18'-1"	17'-3"	16'-5"
2 X 7 X 0.055 X 0.120 SMB	24'-5"	24'-4"	23'-0"	21'-10"	20'-9"	19'-9"	18'-10"
2 X 8 X 0.072 X 0.224 SMB	34'-10"	33'-9"	32'-10"	31'-11"	31'-2"	30'-5"	29'-10"
2 X 9 X 0.082 X 0.306 SMB	41'-0"	39'-9"	38'-7"	37'-7"	36'-8"	35'-10"	35'-1"
2 X 10 X 0.092 X 0.374 SMB	47'-11"	46'-5"	45'-1"	43'-11"	42'-10"	41'-10"	40'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Flat (Horizontal) Beams

Table 101(d)8

Wind Zone	Wall Height: 8 ft		Roof Design Pressure: 6.0 psf				
	130 mph Exposure C		Wall Design Pressure: 21.5 psf				
Beam Spacing in Feet							
Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	14'-11"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	19'-2"	19'-2"	18'-9"	17'-11"	17'-1"	16'-5"
2 X 7 X 0.055 X 0.120 SMB	24'-5"	23'-7"	22'-4"	21'-4"	20'-4"	19'-6"	18'-9"
2 X 8 X 0.072 X 0.224 SMB	33'-1"	32'-1"	31'-2"	30'-4"	29'-7"	28'-11"	28'-4"
2 X 9 X 0.082 X 0.306 SMB	38'-11"	37'-9"	36'-8"	35'-9"	34'-10"	34'-1"	33'-4"
2 X 10 X 0.092 X 0.374 SMB	45'-6"	44'-1"	42'-10"	41'-8"	40'-8"	39'-9"	38'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(d)11

Wind Zone	Wall Height: 11 ft		Roof Design Pressure: 6.0 psf				
	130 mph Exposure C		Wall Design Pressure: 21.5 psf				
Beam Spacing in Feet							
Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	14'-10"	14'-3"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	19'-2"	18'-10"	17'-11"	16'-11"	16'-2"	15'-5"
2 X 7 X 0.055 X 0.120 SMB	24'-2"	22'-9"	21'-6"	20'-5"	19'-5"	18'-6"	17'-8"
2 X 8 X 0.072 X 0.224 SMB	33'-1"	32'-1"	31'-2"	30'-4"	29'-7"	28'-11"	28'-4"
2 X 9 X 0.082 X 0.306 SMB	38'-11"	37'-9"	36'-8"	35'-9"	34'-10"	34'-1"	33'-4"
2 X 10 X 0.092 X 0.374 SMB	45'-6"	44'-1"	42'-10"	41'-8"	40'-8"	39'-9"	38'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(d)14

Wind Zone	Wall Height: 14 ft		Roof Design Pressure: 6.0 psf				
	130 mph Exposure C		Wall Design Pressure: 21.5 psf				
Beam Spacing in Feet							
Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	15'-3"	14'-10"	14'-1"	13'-5"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	19'-2"	18'-0"	16'-11"	16'-1"	15'-2"	14'-5"
2 X 7 X 0.055 X 0.120 SMB	23'-4"	21'-11"	20'-8"	19'-6"	18'-5"	17'-6"	16'-7"
2 X 8 X 0.072 X 0.224 SMB	33'-1"	32'-1"	31'-2"	30'-4"	29'-7"	28'-11"	28'-4"
2 X 9 X 0.082 X 0.306 SMB	38'-11"	37'-9"	36'-8"	35'-9"	34'-10"	34'-1"	33'-4"
2 X 10 X 0.092 X 0.374 SMB	45'-6"	44'-1"	42'-10"	41'-8"	40'-8"	39'-9"	38'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Flat (Horizontal) Beams

Table 101(e)8

Self-Mating (or Lap) Beams	Beam Spacing in Feet						
	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	15'-3"	14'-11"	14'-3"	13'-8"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	19'-1"	18'-1"	17'-2"	16'-5"	15'-8"	14'-11"
2 X 7 X 0.055 X 0.120 SMB	23'-0"	21'-9"	20'-7"	19'-7"	18'-8"	17'-10"	17'-1"
2 X 8 X 0.072 X 0.224 SMB	31'-8"	30'-8"	29'-10"	29'-0"	28'-4"	27'-8"	27'-1"
2 X 9 X 0.082 X 0.306 SMB	37'-3"	36'-1"	35'-1"	34'-2"	33'-4"	32'-7"	31'-10"
2 X 10 X 0.092 X 0.374 SMB	43'-6"	42'-2"	40'-11"	39'-10"	38'-11"	38'-0"	37'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(e)11

Self-Mating (or Lap) Beams	Beam Spacing in Feet						
	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-5"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-3"	14'-11"	14'-2"	13'-6"	12'-10"
2 X 6 X 0.050 X 0.120 SMB	19'-2"	18'-3"	17'-2"	16'-3"	15'-5"	14'-7"	13'-11"
2 X 7 X 0.055 X 0.120 SMB	22'-2"	20'-10"	19'-8"	18'-7"	17'-8"	16'-9"	15'-11"
2 X 8 X 0.072 X 0.224 SMB	31'-8"	30'-8"	29'-10"	29'-0"	28'-4"	27'-8"	27'-1"
2 X 9 X 0.082 X 0.306 SMB	37'-3"	36'-1"	35'-1"	34'-2"	33'-4"	32'-7"	31'-10"
2 X 10 X 0.092 X 0.374 SMB	43'-6"	42'-2"	40'-11"	39'-10"	38'-11"	38'-0"	37'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Flat (Horizontal) Beams

Table 101(e)14

Self-Mating (or Lap) Beams	Beam Spacing in Feet						
	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-0"	8'-5"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-0"	14'-2"	13'-4"	12'-8"	11'-11"
2 X 6 X 0.050 X 0.120 SMB	18'-7"	17'-4"	16'-3"	15'-3"	14'-4"	13'-6"	12'-8"
2 X 7 X 0.055 X 0.120 SMB	21'-3"	19'-11"	18'-8"	17'-7"	16'-6"	15'-7"	14'-9"
2 X 8 X 0.072 X 0.224 SMB	31'-8"	30'-8"	29'-10"	29'-0"	28'-4"	27'-8"	27'-1"
2 X 9 X 0.082 X 0.306 SMB	37'-3"	36'-1"	35'-1"	34'-2"	33'-4"	32'-7"	31'-10"
2 X 10 X 0.092 X 0.374 SMB	43'-6"	42'-2"	40'-11"	39'-10"	38'-11"	38'-0"	37'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(a&b)8

Wall Height: 8 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	9'-10"	6'-7"	1'-0"	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	36'-1"	33'-10"	31'-11"	30'-1"	28'-5"	26'-9"	25'-2"
2 X 9 X 0.082 X 0.306 SMB	47'-11"	46'-5"	45'-1"	43'-9"	41'-10"	40'-1"	39'-10"
2 X 10 X 0.092 X 0.374 SMB	55'-11"	54'-2"	52'-7"	51'-3"	49'-11"	48'-10"	47'-3"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(a&b)11

Wall Height: 11 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	34'-3"	31'-11"	29'-11"	27'-11"	25'-11"	24'-1"	22'-5"
2 X 9 X 0.082 X 0.306 SMB	47'-11"	46'-4"	43'-11"	41'-10"	39'-11"	38'-2"	37'-10"
2 X 10 X 0.092 X 0.374 SMB	55'-11"	54'-2"	52'-7"	51'-3"	49'-2"	47'-3"	45'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(a&b)14

Wall Height: 14 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	32'-4"	30'-0"	27'-10"	25'-6"	23'-4"	21'-4"	19'-6"
2 X 9 X 0.082 X 0.306 SMB	47'-1"	44'-6"	42'-1"	40'-0"	38'-2"	36'-5"	35'-11"
2 X 10 X 0.092 X 0.374 SMB	55'-11"	54'-2"	52'-0"	50'-1"	47'-5"	45'-6"	43'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(a&b)8

Wall Height: 8 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	32'-8"	30'-2"	27'-9"	25'-5"	23'-3"	21'-2"	19'-3"
2 X 9 X 0.082 X 0.306 SMB	47'-11"	45'-7"	43'-1"	40'-10"	38'-10"	36'-11"	36'-1"
2 X 10 X 0.092 X 0.374 SMB	55'-11"	54'-2"	52'-7"	51'-3"	48'-5"	46'-4"	44'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(a&b)11

Wall Height: 11 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	30'-2"	27'-5"	24'-7"	21'-11"	19'-5"	17'-1"	14'-8"
2 X 9 X 0.082 X 0.306 SMB	46'-3"	43'-5"	40'-11"	38'-9"	36'-8"	34'-9"	33'-6"
2 X 10 X 0.092 X 0.374 SMB	55'-11"	53'-11"	51'-2"	49'-9"	46'-4"	44'-3"	42'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(a&b)14

Wall Height: 14 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	27'-7"	24'-2"	21'-1"	18'-0"	15'-1"	11'-11"	8'-7"
2 X 9 X 0.082 X 0.306 SMB	44'-3"	41'-5"	38'-11"	36'-8"	34'-6"	32'-7"	30'-9"
2 X 10 X 0.092 X 0.374 SMB	55'-2"	52'-0"	49'-2"	47'-9"	44'-5"	42'-4"	40'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(c)8

Wall Height: 8 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	3'-3"	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	32'-1"	29'-11"	27'-11"	26'-0"	24'-3"	22'-7"	21'-0"
2 X 9 X 0.082 X 0.306 SMB	45'-1"	43'-6"	41'-4"	39'-4"	37'-6"	35'-11"	34'-11"
2 X 10 X 0.092 X 0.374 SMB	52'-7"	50'-11"	49'-6"	48'-2"	46'-1"	44'-3"	42'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(c)11

Wall Height: 11 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	30'-2"	27'-10"	25'-6"	23'-5"	21'-6"	19'-8"	17'-11"
2 X 9 X 0.082 X 0.306 SMB	44'-2"	41'-8"	39'-6"	37'-6"	35'-8"	34'-0"	32'-10"
2 X 10 X 0.092 X 0.374 SMB	52'-7"	50'-11"	48'-8"	46'-11"	44'-4"	42'-5"	40'-9"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(c)14

Wall Height: 14 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	28'-2"	25'-6"	22'-11"	20'-8"	18'-6"	16'-6"	14'-6"
2 X 9 X 0.082 X 0.306 SMB	42'-5"	39'-11"	37'-8"	35'-8"	33'-11"	32'-2"	30'-8"
2 X 10 X 0.092 X 0.374 SMB	52'-4"	49'-5"	46'-11"	45'-3"	42'-7"	40'-9"	39'-0"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(c)8

Wall Height: 8 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	28'-1"	25'-4"	22'-9"	20'-5"	18'-2"	16'-0"	13'-11"
2 X 9 X 0.082 X 0.306 SMB	43'-4"	40'-8"	38'-4"	36'-3"	34'-3"	32'-6"	30'-10"
2 X 10 X 0.092 X 0.374 SMB	52'-7"	50'-5"	47'-10"	46'-9"	43'-3"	41'-4"	39'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(c)11

Wall Height: 11 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	24'-11"	21'-11"	19'-0"	16'-3"	13'-6"	10'-8"	7'-5"
2 X 9 X 0.082 X 0.306 SMB	41'-3"	38'-7"	36'-2"	34'-0"	32'-0"	30'-0"	27'-11"
2 X 10 X 0.092 X 0.374 SMB	51'-5"	48'-6"	45'-10"	44'-9"	41'-3"	39'-3"	37'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(c)14

Wall Height: 14 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	21'-8"	18'-1"	14'-8"	11'-0"	6'-8"	NA	NA
2 X 9 X 0.082 X 0.306 SMB	39'-3"	36'-7"	34'-1"	31'-10"	29'-6"	27'-2"	24'-11"
2 X 10 X 0.092 X 0.374 SMB	49'-7"	46'-7"	43'-11"	42'-9"	39'-3"	37'-3"	35'-4"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(d)8

Wall Height: 8 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	28'-7"	26'-2"	24'-1"	22'-2"	20'-5"	18'-9"	17'-2"
2 X 9 X 0.082 X 0.306 SMB	41'-11"	39'-6"	37'-5"	35'-6"	33'-10"	32'-3"	30'-9"
2 X 10 X 0.092 X 0.374 SMB	49'-11"	48'-5"	45'-11"	44'-7"	41'-10"	40'-1"	38'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(d)11

Wall Height: 11 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	26'-1"	23'-7"	21'-3"	19'-2"	17'-2"	15'-4"	13'-6"
2 X 9 X 0.082 X 0.306 SMB	40'-0"	37'-8"	35'-6"	33'-7"	31'-10"	30'-2"	28'-5"
2 X 10 X 0.092 X 0.374 SMB	49'-4"	46'-7"	44'-2"	42'-9"	40'-1"	38'-4"	36'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(d)14

Wall Height: 14 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure B Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	23'-7"	20'-10"	18'-3"	15'-10"	13'-7"	11'-3"	8'-11"
2 X 9 X 0.082 X 0.306 SMB	38'-3"	35'-10"	33'-8"	31'-9"	29'-11"	27'-10"	25'-11"
2 X 10 X 0.092 X 0.374 SMB	47'-7"	44'-10"	42'-5"	41'-0"	38'-4"	36'-7"	34'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(d)8

Wall Height: 8 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	23'-5"	20'-7"	17'-11"	15'-6"	13'-0"	10'-6"	7'-8"
2 X 9 X 0.082 X 0.306 SMB	38'-11"	36'-5"	34'-2"	32'-1"	30'-1"	28'-0"	26'-1"
2 X 10 X 0.092 X 0.374 SMB	48'-6"	45'-8"	43'-2"	42'-6"	38'-10"	36'-11"	35'-3"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(d)11

Wall Height: 11 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	19'-9"	16'-5"	13'-2"	9'-9"	5'-5"	NA	NA
2 X 9 X 0.082 X 0.306 SMB	36'-10"	34'-2"	31'-10"	29'-6"	27'-1"	24'-10"	22'-9"
2 X 10 X 0.092 X 0.374 SMB	46'-6"	43'-8"	41'-1"	40'-4"	36'-8"	34'-9"	32'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(d)14

Wall Height: 14 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	15'-5"	11'-2"	5'-11"	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	34'-8"	31'-11"	29'-3"	26'-6"	23'-11"	21'-6"	19'-2"
2 X 10 X 0.092 X 0.374 SMB	44'-6"	41'-8"	39'-1"	38'-4"	34'-7"	32'-2"	29'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(e)8

Wall Height: 8 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	25'-0"	22'-8"	20'-7"	18'-8"	16'-10"	15'-2"	13'-7"
2 X 9 X 0.082 X 0.306 SMB	38'-5"	36'-2"	34'-1"	32'-3"	30'-7"	28'-9"	27'-2"
2 X 10 X 0.092 X 0.374 SMB	47'-2"	44'-7"	42'-3"	41'-1"	38'-4"	36'-8"	35'-1"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(e)11

Wall Height: 11 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	22'-3"	19'-9"	17'-4"	15'-2"	13'-0"	10'-11"	8'-9"
2 X 9 X 0.082 X 0.306 SMB	36'-6"	34'-2"	32'-2"	30'-3"	28'-2"	26'-3"	24'-6"
2 X 10 X 0.092 X 0.374 SMB	45'-4"	42'-9"	40'-5"	39'-3"	36'-6"	34'-9"	32'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 3 ft (Maximum) Table 101(e)14

Wall Height: 14 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	19'-4"	16'-6"	13'-9"	11'-0"	8'-2"	4'-7"	NA
2 X 9 X 0.082 X 0.306 SMB	34'-8"	32'-4"	30'-3"	27'-10"	25'-8"	23'-8"	21'-10"
2 X 10 X 0.092 X 0.374 SMB	43'-7"	40'-11"	38'-8"	37'-6"	34'-8"	32'-8"	30'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(e)8

Wall Height: 8 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	18'-11"	15'-11"	13'-1"	10'-0"	6'-7"	NA	NA
2 X 9 X 0.082 X 0.306 SMB	35'-2"	32'-8"	30'-4"	27'-11"	25'-9"	23'-8"	21'-9"
2 X 10 X 0.092 X 0.374 SMB	44'-4"	41'-7"	39'-2"	38'-10"	34'-11"	32'-10"	30'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(e)11

Wall Height: 11 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	14'-5"	10'-5"	5'-4"	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	32'-11"	30'-2"	27'-4"	24'-9"	22'-4"	20'-1"	17'-10"
2 X 10 X 0.092 X 0.374 SMB	42'-3"	39'-6"	37'-0"	36'-8"	32'-3"	30'-0"	27'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Mansard Beams with a Rise of 4 ft (Maximum) Table 101(e)14

Wall Height: 14 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	7'-11"	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	30'-7"	27'-3"	24'-2"	21'-4"	18'-7"	15'-11"	13'-3"
2 X 10 X 0.092 X 0.374 SMB	40'-3"	37'-5"	34'-10"	34'-6"	29'-6"	27'-1"	24'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(a&b)8

Wall Height: 8 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	31'-11"	29'-2"	26'-4"	23'-8"	21'-1"	18'-8"	16'-4"
2 X 9 X 0.082 X 0.306 SMB	49'-0"	46'-1"	43'-5"	41'-0"	38'-10"	36'-10"	35'-7"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-6"	53'-11"	52'-6"	49'-0"	46'-10"	44'-9"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(a&b)11

Wall Height: 11 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	29'-3"	25'-10"	22'-7"	19'-6"	16'-5"	13'-4"	9'-10"
2 X 9 X 0.082 X 0.306 SMB	46'-11"	43'-11"	41'-3"	38'-9"	36'-6"	34'-5"	32'-9"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-0"	52'-1"	50'-11"	46'-11"	44'-8"	42'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(a&b)14

Wall Height: 14 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	25'-11"	22'-0"	18'-3"	14'-5"	10'-1"	3'-8"	NA
2 X 9 X 0.082 X 0.306 SMB	44'-10"	41'-10"	39'-1"	36'-7"	34'-2"	31'-11"	29'-8"
2 X 10 X 0.092 X 0.374 SMB	56'-5"	53'-1"	50'-1"	48'-11"	44'-11"	42'-7"	40'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(a&b)8

Wall Height: 8 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	26'-9"	22'-11"	19'-3"	15'-7"	11'-7"	6'-6"	NA
2 X 9 X 0.082 X 0.306 SMB	46'-1"	42'-11"	40'-1"	37'-6"	35'-1"	32'-10"	30'-7"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	54'-4"	51'-3"	50'-11"	45'-11"	43'-7"	41'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(a&b)11

Wall Height: 11 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	22'-4"	17'-9"	12'-9"	6'-3"	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	43'-8"	40'-6"	37'-6"	34'-9"	32'-2"	29'-6"	26'-9"
2 X 10 X 0.092 X 0.374 SMB	55'-8"	52'-2"	49'-0"	48'-9"	43'-7"	41'-2"	38'-11"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(a&b)14

Wall Height: 14 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	16'-11"	10'-5"	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	41'-5"	38'-0"	34'-11"	31'-11"	28'-9"	25'-7"	22'-5"
2 X 10 X 0.092 X 0.374 SMB	53'-6"	50'-0"	46'-10"	46'-6"	41'-2"	38'-8"	36'-3"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(c)8

Wall Height: 8 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	29'-1"	25'-8"	22'-5"	19'-3"	16'-2"	12'-11"	9'-5"
2 X 9 X 0.082 X 0.306 SMB	46'-11"	43'-11"	41'-2"	38'-9"	36'-6"	34'-4"	32'-7"
2 X 10 X 0.092 X 0.374 SMB	57'-3"	55'-1"	52'-1"	51'-3"	46'-11"	44'-8"	42'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(c)11

Wall Height: 11 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	25'-2"	21'-3"	17'-3"	13'-2"	8'-4"	NA	NA
2 X 9 X 0.082 X 0.306 SMB	44'-6"	41'-6"	38'-8"	36'-2"	33'-9"	31'-6"	29'-1"
2 X 10 X 0.092 X 0.374 SMB	56'-2"	52'-9"	49'-9"	48'-11"	44'-7"	42'-3"	40'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(c)14

Wall Height: 14 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	20'-9"	15'-10"	10'-3"	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	42'-3"	39'-1"	36'-3"	33'-7"	30'-11"	28'-1"	25'-3"
2 X 10 X 0.092 X 0.374 SMB	53'-11"	50'-7"	47'-7"	46'-9"	42'-3"	39'-11"	37'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(c)8

Wall Height: 8 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	21'-6"	16'-8"	11'-3"	1'-11"	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	43'-5"	40'-1"	37'-1"	34'-4"	31'-8"	28'-10"	26'-1"
2 X 10 X 0.092 X 0.374 SMB	55'-5"	51'-11"	48'-9"	48'-11"	43'-3"	40'-9"	38'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(c)11

Wall Height: 11 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	14'-10"	6'-6"	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	40'-8"	37'-3"	34'-0"	30'-11"	27'-6"	24'-2"	20'-11"
2 X 10 X 0.092 X 0.374 SMB	52'-11"	49'-5"	46'-2"	46'-4"	40'-6"	37'-11"	35'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(c)14

Wall Height: 14 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	37'-11"	34'-3"	30'-8"	26'-7"	22'-8"	18'-8"	14'-4"
2 X 10 X 0.092 X 0.374 SMB	50'-7"	46'-11"	43'-8"	43'-11"	37'-8"	34'-10"	31'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(d)8

Wall Height: 8 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	22'-7"	19'-0"	15'-6"	11'-11"	7'-7"	NA	NA
2 X 9 X 0.082 X 0.306 SMB	40'-9"	37'-11"	35'-4"	32'-11"	30'-8"	28'-3"	26'-0"
2 X 10 X 0.092 X 0.374 SMB	51'-5"	48'-3"	45'-6"	45'-3"	40'-8"	38'-6"	36'-7"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(d)11

Wall Height: 11 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	17'-9"	13'-1"	7'-7"	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	38'-4"	35'-5"	32'-8"	29'-11"	27'-1"	24'-5"	21'-11"
2 X 10 X 0.092 X 0.374 SMB	49'-2"	46'-0"	43'-2"	42'-11"	38'-2"	35'-11"	33'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(d)14

Wall Height: 14 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	11'-3"	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	35'-11"	32'-10"	29'-8"	26'-4"	23'-2"	20'-2"	17'-1"
2 X 10 X 0.092 X 0.374 SMB	47'-1"	43'-10"	40'-11"	40'-8"	35'-9"	33'-1"	30'-6"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(d)8

Wall Height: 8 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	12'-9"	4'-7"	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	36'-11"	33'-9"	30'-7"	27'-4"	24'-3"	21'-3"	18'-3"
2 X 10 X 0.092 X 0.374 SMB	48'-3"	44'-11"	41'-11"	42'-11"	36'-7"	34'-1"	31'-5"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(d)11

Wall Height: 11 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	33'-11"	30'-3"	26'-5"	22'-8"	18'-11"	15'-1"	10'-9"
2 X 10 X 0.092 X 0.374 SMB	45'-9"	42'-4"	39'-2"	40'-3"	33'-3"	30'-2"	27'-4"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(d)14

Wall Height: 14 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	30'-8"	26'-1"	21'-7"	16'-11"	11'-10"	3'-11"	NA
2 X 10 X 0.092 X 0.374 SMB	43'-4"	39'-8"	36'-4"	37'-7"	29'-4"	25'-11"	22'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(e)8

Wall Height: 8 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	17'-0"	13'-1"	8'-8"	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	35'-11"	33'-2"	30'-7"	27'-10"	25'-4"	22'-11"	20'-8"
2 X 10 X 0.092 X 0.374 SMB	46'-0"	43'-0"	40'-4"	40'-7"	35'-9"	33'-5"	31'-3"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(e)11

Wall Height: 11 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	10'-5"	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	33'-5"	30'-4"	27'-1"	24'-1"	21'-2"	18'-5"	15'-8"
2 X 10 X 0.092 X 0.374 SMB	43'-9"	40'-9"	37'-11"	38'-3"	32'-9"	30'-2"	27'-10"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 5 ft (Maximum) Table 101(e)14

Wall Height: 14 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	30'-8"	26'-10"	23'-3"	19'-10"	16'-5"	12'-10"	8'-9"
2 X 10 X 0.092 X 0.374 SMB	41'-7"	38'-5"	35'-6"	35'-10"	29'-6"	26'-9"	24'-1"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(e)8

Wall Height: 8 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 6 X 0.050 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	31'-8"	27'-11"	24'-6"	21'-1"	17'-10"	14'-5"	10'-9"
2 X 10 X 0.092 X 0.374 SMB	42'-8"	39'-5"	36'-6"	38'-3"	30'-8"	27'-11"	25'-4"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(e)11

Wall Height: 11 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 7 X 0.055 X 0.120 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	27'-9"	23'-6"	19'-4"	15'-1"	10'-3"	1'-10"	NA
2 X 10 X 0.092 X 0.374 SMB	40'-0"	36'-7"	33'-2"	35'-5"	26'-6"	23'-5"	20'-5"

Allowable Spans for Gabled Beams with a Rise of 6 ft (Maximum) Table 101(e)14

Wall Height: 14 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf
Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 8 X 0.072 X 0.224 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 9 X 0.082 X 0.306 SMB	23'-4"	18'-3"	12'-8"	4'-8"	NA	NA	NA
2 X 10 X 0.092 X 0.374 SMB	37'-4"	33'-5"	29'-5"	32'-0"	21'-11"	18'-2"	14'-4"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Shed (Pitched) Beams

Table 101(a&b)8

(10° slope or 5 ft rise, whichever is less) Wall Height: 8 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-7"	9'-3"	8'-8"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	15'-2"	14'-4"	13'-7"	12'-10"	12'-2"
2 X 6 X 0.050 X 0.120 SMB	18'-9"	17'-7"	16'-5"	15'-6"	14'-7"	13'-9"	12'-11"
2 X 7 X 0.055 X 0.120 SMB	21'-5"	20'-1"	18'-10"	17'-9"	16'-9"	15'-10"	15'-0"
2 X 8 X 0.072 X 0.224 SMB	31'-7"	30'-7"	29'-9"	28'-11"	28'-3"	27'-7"	27'-0"
2 X 9 X 0.082 X 0.306 SMB	37'-2"	36'-0"	34'-11"	34'-1"	33'-3"	32'-6"	31'-10"
2 X 10 X 0.092 X 0.374 SMB	43'-5"	42'-1"	40'-10"	39'-9"	38'-10"	37'-11"	37'-1"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(a&b)11

(10° slope or 5 ft rise, whichever is less) Wall Height: 11 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-7"	9'-2"	8'-6"	7'-11"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-3"	14'-8"	13'-9"	12'-11"	12'-2"	11'-6"
2 X 6 X 0.050 X 0.120 SMB	18'-2"	16'-11"	15'-9"	14'-9"	13'-9"	12'-11"	12'-1"
2 X 7 X 0.055 X 0.120 SMB	20'-10"	19'-5"	18'-2"	16'-11"	15'-11"	14'-11"	14'-1"
2 X 8 X 0.072 X 0.224 SMB	31'-7"	30'-7"	29'-9"	28'-11"	28'-3"	27'-7"	27'-0"
2 X 9 X 0.082 X 0.306 SMB	37'-2"	36'-0"	34'-11"	34'-1"	33'-3"	32'-6"	31'-10"
2 X 10 X 0.092 X 0.374 SMB	43'-5"	42'-1"	40'-10"	39'-9"	38'-10"	37'-11"	37'-1"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(a&b)14

(10° slope or 5 ft rise, whichever is less) Wall Height: 14 ft Roof Design Pressure: 4.3 psf
Wind Zone 100/110 mph Exposure C Wall Design Pressure: 15.5 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-3"	8'-5"	7'-9"	7'-1"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	15'-1"	14'-1"	13'-2"	12'-4"	11'-6"	10'-10"
2 X 6 X 0.050 X 0.120 SMB	17'-6"	16'-2"	14'-11"	13'-11"	12'-11"	11'-11"	11'-1"
2 X 7 X 0.055 X 0.120 SMB	20'-2"	18'-8"	17'-4"	16'-2"	15'-1"	14'-0"	13'-1"
2 X 8 X 0.072 X 0.224 SMB	31'-7"	30'-7"	29'-9"	28'-11"	28'-3"	27'-7"	27'-0"
2 X 9 X 0.082 X 0.306 SMB	37'-2"	36'-0"	34'-11"	34'-1"	33'-3"	32'-6"	31'-10"
2 X 10 X 0.092 X 0.374 SMB	43'-5"	42'-1"	40'-10"	39'-9"	38'-10"	37'-11"	37'-1"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Shed (Pitched) Beams

Table 101(c)8

(10° slope or 5 ft rise, whichever is less) Wall Height: 8 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-7"	9'-1"	8'-5"	7'-10"	7'-3"
2 X 5 X 0.050 X 0.116 SMB	15'-3"	14'-4"	13'-5"	12'-7"	11'-11"	11'-2"	10'-7"
2 X 6 X 0.050 X 0.120 SMB	16'-8"	15'-6"	14'-5"	13'-6"	12'-8"	11'-10"	11'-1"
2 X 7 X 0.055 X 0.120 SMB	19'-1"	17'-10"	16'-8"	15'-7"	14'-8"	13'-9"	12'-11"
2 X 8 X 0.072 X 0.224 SMB	29'-10"	28'-11"	28'-1"	27'-4"	26'-8"	26'-1"	25'-6"
2 X 9 X 0.082 X 0.306 SMB	35'-1"	34'-0"	33'-1"	32'-2"	31'-5"	30'-8"	30'-0"
2 X 10 X 0.092 X 0.374 SMB	40'-11"	39'-9"	38'-7"	37'-7"	36'-8"	35'-10"	35'-1"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(c)11

(10° slope or 5 ft rise, whichever is less) Wall Height: 11 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-7"	9'-1"	8'-4"	7'-8"	6'-11"	6'-4"
2 X 5 X 0.050 X 0.116 SMB	14'-10"	13'-9"	12'-10"	11'-11"	11'-2"	10'-6"	9'-10"
2 X 6 X 0.050 X 0.120 SMB	15'-11"	14'-9"	13'-8"	12'-8"	11'-9"	10'-10"	10'-0"
2 X 7 X 0.055 X 0.120 SMB	18'-4"	17'-0"	15'-10"	14'-8"	13'-8"	12'-9"	11'-10"
2 X 8 X 0.072 X 0.224 SMB	29'-10"	28'-11"	28'-1"	27'-4"	26'-8"	26'-1"	25'-6"
2 X 9 X 0.082 X 0.306 SMB	35'-1"	34'-0"	33'-1"	32'-2"	31'-5"	30'-8"	30'-0"
2 X 10 X 0.092 X 0.374 SMB	40'-11"	39'-9"	38'-7"	37'-7"	36'-8"	35'-10"	35'-1"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(c)14

(10° slope or 5 ft rise, whichever is less) Wall Height: 14 ft Roof Design Pressure: 5.2 psf
Wind Zone 120 mph Exposure C Wall Design Pressure: 18.1 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-3"	8'-5"	7'-7"	6'-9"	5'-11"	5'-3"
2 X 5 X 0.050 X 0.116 SMB	14'-3"	13'-2"	12'-2"	11'-4"	10'-6"	9'-8"	8'-11"
2 X 6 X 0.050 X 0.120 SMB	15'-3"	13'-11"	12'-10"	11'-9"	10'-8"	9'-9"	8'-10"
2 X 7 X 0.055 X 0.120 SMB	17'-7"	16'-2"	14'-11"	13'-9"	12'-8"	11'-7"	10'-7"
2 X 8 X 0.072 X 0.224 SMB	29'-10"	28'-11"	28'-1"	27'-4"	26'-8"	26'-1"	25'-6"
2 X 9 X 0.082 X 0.306 SMB	35'-1"	34'-0"	33'-1"	32'-2"	31'-5"	30'-8"	30'-0"
2 X 10 X 0.092 X 0.374 SMB	40'-11"	39'-9"	38'-7"	37'-7"	36'-8"	35'-10"	35'-1"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Shed (Pitched) Beams

Table 101(d)8

(10° slope or 5 ft rise, whichever is less) Wall Height: 8 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-7"	9'-1"	8'-4"	7'-7"	6'-11"	6'-4"	5'-8"
2 X 5 X 0.050 X 0.116 SMB	13'-7"	12'-7"	11'-9"	10'-11"	10'-3"	9'-7"	8'-11"
2 X 6 X 0.050 X 0.120 SMB	14'-8"	13'-6"	12'-6"	11'-6"	10'-8"	9'-10"	9'-1"
2 X 7 X 0.055 X 0.120 SMB	16'-10"	15'-7"	14'-6"	13'-5"	12'-6"	11'-7"	10'-9"
2 X 8 X 0.072 X 0.224 SMB	28'-3"	27'-5"	26'-7"	25'-11"	25'-3"	24'-8"	24'-2"
2 X 9 X 0.082 X 0.306 SMB	33'-3"	32'-3"	31'-4"	30'-6"	29'-9"	29'-1"	28'-5"
2 X 10 X 0.092 X 0.374 SMB	38'-10"	37'-8"	36'-7"	35'-7"	34'-9"	33'-11"	33'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(d)11

(10° slope or 5 ft rise, whichever is less) Wall Height: 11 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	9'-3"	8'-4"	7'-6"	6'-8"	5'-11"	5'-2"	4'-5"
2 X 5 X 0.050 X 0.116 SMB	12'-11"	11'-11"	11'-1"	10'-3"	9'-5"	8'-8"	7'-11"
2 X 6 X 0.050 X 0.120 SMB	13'-10"	12'-8"	11'-6"	10'-6"	9'-6"	8'-7"	7'-9"
2 X 7 X 0.055 X 0.120 SMB	16'-0"	14'-8"	13'-6"	12'-4"	11'-4"	10'-4"	9'-5"
2 X 8 X 0.072 X 0.224 SMB	28'-3"	27'-5"	26'-7"	25'-11"	25'-3"	24'-8"	23'-7"
2 X 9 X 0.082 X 0.306 SMB	33'-3"	32'-3"	31'-4"	30'-6"	29'-9"	29'-1"	28'-5"
2 X 10 X 0.092 X 0.374 SMB	38'-10"	37'-8"	36'-7"	35'-7"	34'-9"	33'-11"	33'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(d)14

(10° slope or 5 ft rise, whichever is less) Wall Height: 14 ft Roof Design Pressure: 6.0 psf
Wind Zone 130 mph Exposure C Wall Design Pressure: 21.5 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	8'-6"	7'-6"	6'-7"	5'-8"	4'-9"	3'-9"	2'-7"
2 X 5 X 0.050 X 0.116 SMB	12'-4"	11'-4"	10'-4"	9'-5"	8'-7"	7'-9"	6'-11"
2 X 6 X 0.050 X 0.120 SMB	12'-11"	11'-8"	10'-6"	9'-4"	8'-3"	7'-2"	6'-1"
2 X 7 X 0.055 X 0.120 SMB	15'-2"	13'-9"	12'-5"	11'-2"	10'-1"	8'-11"	7'-10"
2 X 8 X 0.072 X 0.224 SMB	28'-3"	27'-5"	26'-7"	25'-11"	25'-3"	23'-11"	22'-9"
2 X 9 X 0.082 X 0.306 SMB	33'-3"	32'-3"	31'-4"	30'-6"	29'-9"	29'-1"	28'-5"
2 X 10 X 0.092 X 0.374 SMB	38'-10"	37'-8"	36'-7"	35'-7"	34'-9"	33'-11"	33'-2"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

Allowable Spans for Shed (Pitched) Beams

Table 101(e)8

(10° slope or 5 ft rise, whichever is less) Wall Height: 8 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	8'-8"	7'-10"	7'-0"	6'-3"	5'-7"	4'-11"	4'-2"
2 X 5 X 0.050 X 0.116 SMB	12'-2"	11'-2"	10'-4"	9'-7"	8'-10"	8'-2"	7'-6"
2 X 6 X 0.050 X 0.120 SMB	12'-11"	11'-10"	10'-9"	9'-10"	8'-11"	8'-1"	7'-3"
2 X 7 X 0.055 X 0.120 SMB	14'-11"	13'-9"	12'-7"	11'-7"	10'-7"	9'-8"	8'-10"
2 X 8 X 0.072 X 0.224 SMB	26'-11"	26'-2"	25'-5"	24'-9"	24'-2"	23'-2"	22'-1"
2 X 9 X 0.082 X 0.306 SMB	31'-9"	30'-9"	29'-11"	29'-1"	28'-5"	27'-9"	27'-2"
2 X 10 X 0.092 X 0.374 SMB	37'-1"	35'-11"	34'-11"	33'-11"	33'-2"	32'-5"	31'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(e)11

(10° slope or 5 ft rise, whichever is less) Wall Height: 11 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	7'-10"	6'-11"	6'-0"	5'-2"	4'-3"	3'-3"	2'-1"
2 X 5 X 0.050 X 0.116 SMB	11'-6"	10'-5"	9'-6"	8'-8"	7'-10"	7'-1"	6'-4"
2 X 6 X 0.050 X 0.120 SMB	12'-0"	10'-10"	9'-8"	8'-7"	7'-7"	6'-6"	5'-5"
2 X 7 X 0.055 X 0.120 SMB	14'-0"	12'-8"	11'-6"	10'-4"	9'-3"	8'-2"	7'-1"
2 X 8 X 0.072 X 0.224 SMB	26'-11"	26'-2"	25'-5"	24'-9"	23'-5"	22'-3"	21'-1"
2 X 9 X 0.082 X 0.306 SMB	31'-9"	30'-9"	29'-11"	29'-1"	28'-5"	27'-9"	27'-2"
2 X 10 X 0.092 X 0.374 SMB	37'-1"	35'-11"	34'-11"	33'-11"	33'-2"	32'-5"	31'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

Allowable Spans for Shed (Pitched) Beams

Table 101(e)14

(10° slope or 5 ft rise, whichever is less) Wall Height: 14 ft Roof Design Pressure: 6.9 psf
Wind Zone 140 mph Exposure C Wall Design Pressure: 24.9 psf

Beam Spacing in Feet

Self-Mating (or Lap) Beams	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"
2 X 4 X 0.046 X 0.100 SMB	6'-11"	5'-11"	4'-10"	3'-8"	2'-3"	NA	NA
2 X 5 X 0.050 X 0.116 SMB	10'-9"	9'-8"	8'-8"	7'-8"	6'-9"	5'-10"	4'-11"
2 X 6 X 0.050 X 0.120 SMB	11'-0"	9'-8"	8'-5"	7'-1"	5'-10"	4'-5"	2'-7"
2 X 7 X 0.055 X 0.120 SMB	12'-11"	11'-6"	10'-2"	8'-10"	7'-7"	6'-3"	4'-9"
2 X 8 X 0.072 X 0.224 SMB	26'-11"	26'-2"	25'-5"	23'-11"	22'-7"	21'-3"	20'-1"
2 X 9 X 0.082 X 0.306 SMB	31'-9"	30'-9"	29'-11"	29'-1"	28'-5"	27'-9"	27'-2"
2 X 10 X 0.092 X 0.374 SMB	37'-1"	35'-11"	34'-11"	33'-11"	33'-2"	32'-5"	31'-8"

Table Span Note: where tabular span exceeds 40' - 0", use 40' - 0")

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Primary Members In Screen Walls (Posts/Columns)

Table 102 a&b

Wind Zone = 110 MPH Applied Unit Load = 15.5 PSF Exposure C

Post / Column	Load Widths or Spacing								
	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2" X 2" X 0.046" X 0.046" Hollow	5'-9"	5'-5"	5'-1"	4'-11"	4'-8"	4'-6"	4'-4"	4'-2"	4'-1"
2" X 3" X 0.05" X 0.05" Hollow	8'-4"	7'-11"	7'-6"	7'-2"	6'-10"	6'-7"	6'-4"	6'-1"	5'-11"
2" X 3" X 0.05" X 0.05" Snap	8'-11"	8'-6"	8'-0"	7'-8"	7'-4"	7'-1"	6'-10"	6'-7"	6'-4"
2" X 4" X 0.050" X 0.050" Hollow	9'-8"	9'-2"	8'-8"	8'-3"	7'-11"	7'-7"	7'-4"	7'-1"	6'-10"
2" X 4" X 0.05" X 0.05" Snap	10'-9"	10'-1"	9'-7"	9'-2"	8'-9"	8'-5"	8'-1"	7'-10"	7'-7"
2" X 5" X 0.050" X 0.050" Hollow	10'-0"	9'-5"	8'-11"	8'-7"	8'-2"	7'-10"	7'-7"	7'-4"	7'-1"
2"X4"X0.046"X0.10" SMB	9'-2"	8'-8"	8'-3"	7'-10"	7'-6"	7'-2"	6'-11"	6'-8"	6'-6"
2"X5"X0.05"X0.116" SMB	11'-4"	10'-8"	10'-2"	9'-8"	9'-3"	8'-11"	8'-7"	8'-3"	8'-0"
2"X6"X0.05"X0.12" SMB	12'-2"	11'-6"	10'-11"	10'-5"	9'-11"	9'-7"	9'-3"	8'-11"	8'-7"
2"X7"X0.055"X0.12" SMB	13'-7"	12'-9"	12'-1"	11'-7"	11'-1"	10'-7"	10'-3"	9'-11"	9'-7"
2"X8X.072"X0.224" SMB	25'-4"	23'-10"	22'-8"	21'-7"	20'-8"	19'-10"	19'-2"	18'-6"	17'-11"
2"X9"X.082"X.306" SMB	33'-8"	32'-5"	30'-10"	29'-5"	28'-2"	27'-0"	26'-1"	25'-2"	24'-4"
2"X10"X.092"X.389" SMB	39'-4"	37'-9"	36'-5"	34'-8"	33'-3"	31'-11"	30'-9"	29'-9"	28'-9"

ALLOWABLE SPANS for Primary Members In Screen Walls (Posts/Columns)

Table 102 c

Wind Zone = 120 MPH Applied Unit Load = 18.1 PSF Exposure C

Post / Column	Load Widths or Spacing								
	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2" X 2" X 0.046" X 0.046" Hollow	5'-4"	4'-11"	4'-9"	4'-6"	4'-4"	4'-2"	4'-0"	3'-10"	3'-9"
2" X 3" X 0.05" X 0.05" Hollow	7'-9"	7'-4"	6'-11"	6'-7"	6'-4"	6'-1"	5'-10"	5'-8"	5'-6"
2" X 3" X 0.05" X 0.05" Snap	8'-4"	7'-10"	7'-5"	7'-1"	6'-10"	6'-6"	6'-3"	6'-1"	5'-11"
2" X 4" X 0.050" X 0.050" Hollow	8'-11"	8'-6"	8'-0"	7'-8"	7'-4"	7'-1"	6'-9"	6'-7"	6'-4"
2" X 4" X 0.05" X 0.05" Snap	9'-11"	9'-4"	8'-11"	8'-6"	8'-1"	7'-10"	7'-6"	7'-3"	7'-0"
2" X 5" X 0.050" X 0.050" Hollow	9'-3"	8'-9"	8'-4"	7'-11"	7'-7"	7'-3"	7'-0"	6'-9"	6'-7"
2"X4"X0.046"X0.10" SMB	8'-6"	8'-0"	7'-7"	7'-3"	6'-11"	6'-8"	6'-5"	6'-3"	6'-0"
2"X5"X0.05"X0.116" SMB	10'-6"	9'-11"	9'-5"	8'-11"	8'-7"	8'-3"	7'-11"	7'-8"	7'-5"
2"X6"X0.05"X0.12" SMB	11'-3"	10'-8"	10'-1"	9'-7"	9'-3"	8'-10"	8'-6"	8'-3"	7'-11"
2"X7"X0.055"X0.12" SMB	12'-6"	11'-10"	11'-3"	10'-8"	10'-3"	9'-10"	9'-6"	9'-2"	8'-10"
2"X8X.072"X0.224" SMB	23'-5"	22'-1"	20'-11"	19'-11"	19'-2"	18'-5"	17'-9"	17'-1"	16'-7"
2"X9"X.082"X.306" SMB	31'-11"	30'-1"	28'-7"	27'-3"	26'-1"	25'-0"	24'-1"	23'-4"	22'-7"
2"X10"X.092"X.389" SMB	37'-4"	35'-6"	33'-8"	32'-2"	30'-9"	29'-7"	28'-6"	27'-6"	26'-8"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Primary Members In Screen Walls (Posts/Columns) **Table 102 d**
Wind Zone = 130 MPH Applied Unit Load = 21.5 PSF Exposure C

Post / Column	Load Widths or Spacing								
	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2" X 2" X 0.046" X 0.046" Hollow	4'-10"	4'-7"	4'-4"	4'-2"	3'-11"	3'-10"	3'-8"	3'-7"	3'-5"
2" X 3" X 0.05" X 0.05" Hollow	7'-1"	6'-8"	6'-4"	6'-1"	5'-10"	5'-7"	5'-4"	5'-2"	5'-0"
2" X 3" X 0.05" X 0.05" Snap	7'-8"	7'-2"	6'-10"	6'-6"	6'-3"	5'-11"	5'-9"	5'-7"	5'-5"
2" X 4" X 0.050" X 0.050" Hollow	8'-3"	7'-9"	7'-4"	7'-0"	6'-9"	6'-5"	6'-3"	6'-0"	5'-10"
2" X 4" X 0.05" X 0.05" Snap	9'-1"	8'-7"	8'-2"	7'-9"	7'-5"	7'-2"	6'-11"	6'-8"	6'-5"
2" X 5" X 0.050" X 0.050" Hollow	8'-6"	8'-0"	7'-7"	7'-3"	6'-11"	6'-8"	6'-5"	6'-3"	6'-0"
2"X4"X0.046"X0.10" SMB	7'-10"	7'-4"	6'-11"	6'-8"	6'-4"	6'-1"	5'-11"	5'-8"	5'-6"
2"X5"X0.05"X0.116" SMB	9'-7"	9'-1"	8'-7"	8'-2"	7'-10"	7'-7"	7'-3"	7'-0"	6'-10"
2"X6"X0.05"X0.12" SMB	10'-4"	9'-9"	9'-3"	8'-10"	8'-5"	8'-1"	7'-10"	7'-7"	7'-4"
2"X7"X0.055"X0.12" SMB	11'-6"	10'-10"	10'-3"	9'-10"	9'-5"	9'-0"	8'-8"	8'-5"	8'-2"
2"X8X.072"X0.224" SMB	21'-6"	20'-3"	19'-3"	18'-4"	17'-7"	16'-10"	16'-3"	15'-8"	15'-2"
2"X9"X.082"X.306" SMB	29'-3"	27'-7"	26'-2"	24'-11"	23'-11"	22'-11"	22'-1"	21'-4"	20'-8"
2"X10"X.092"X.389" SMB	34'-6"	32'-7"	30'-11"	29'-5"	28'-2"	27'-1"	26'-1"	25'-3"	24'-5"

ALLOWABLE SPANS for Primary Members In Screen Walls (Posts/Columns) **Table 102 e**
Wind Zone = 140 MPH Applied Unit Load = 24.9 PSF Exposure C

Post / Column	Load Widths or Spacing								
	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2" X 2" X 0.046" X 0.046" Hollow	4'-6"	4'-3"	4'-0"	3'-10"	3'-8"	3'-6"	3'-5"	3'-4"	3'-2"
2" X 3" X 0.05" X 0.05" Hollow	6'-7"	6'-3"	5'-11"	5'-7"	5'-5"	5'-2"	4'-11"	4'-10"	4'-8"
2" X 3" X 0.05" X 0.05" Snap	7'-1"	6'-8"	6'-4"	6'-0"	5'-9"	5'-7"	5'-4"	5'-2"	5'-0"
2" X 4" X 0.050" X 0.050" Hollow	7'-8"	7'-2"	6'-10"	6'-6"	6'-3"	5'-11"	5'-9"	5'-7"	5'-5"
2" X 4" X 0.05" X 0.05" Snap	8'-5"	7'-11"	7'-7"	7'-3"	6'-11"	6'-8"	6'-5"	6'-2"	5'-11"
2" X 5" X 0.050" X 0.050" Hollow	7'-11"	7'-5"	7'-1"	6'-9"	6'-5"	6'-2"	5'-11"	5'-9"	5'-7"
2"X4"X0.046"X0.10" SMB	7'-3"	6'-10"	6'-6"	6'-2"	5'-11"	5'-8"	5'-6"	5'-3"	5'-1"
2"X5"X0.05"X0.116" SMB	8'-11"	8'-5"	7'-11"	7'-7"	7'-4"	7'-0"	6'-9"	6'-6"	6'-4"
2"X6"X0.05"X0.12" SMB	9'-7"	9'-1"	8'-7"	8'-2"	7'-10"	7'-6"	7'-3"	7'-0"	6'-9"
2"X7"X0.055"X0.12" SMB	10'-8"	10'-1"	9'-7"	9'-1"	8'-9"	8'-4"	8'-1"	7'-10"	7'-7"
2"X8X.072"X0.224" SMB	19'-11"	18'-10"	17'-10"	17'-0"	16'-3"	15'-8"	15'-1"	14'-7"	14'-1"
2"X9"X.082"X.306" SMB	27'-2"	25'-7"	24'-3"	23'-2"	22'-2"	21'-4"	20'-6"	19'-10"	19'-2"
2"X10"X.092"X.389" SMB	32'-1"	30'-3"	28'-8"	27'-4"	26'-2"	25'-2"	24'-3"	23'-5"	22'-8"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for SECONDARY SCREEN WALL MEMBERS
(GIRTS OR CHAIR RAILS) 6005T5 Alloy

Table 104

FOR 100&110 mph Wind Zones Exposure C Table 104a&b
 Unit Load = 15.5 psf

	Load Width / Spacing						
Extrusion	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
2X2X.046 Hollow	6'-2"	6'-0"	5'-11"	5'-10"	5'-9"	5'-9"	5'-9"
2X3X.050 Hollow	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X4X.05"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X3X.072"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"

Maximum Spacing (Vertical) 7 ft o.c.; maximum allowable span 7' 10"

FOR 120 mph Wind Zone Exposure C Table 104c
 Unit Load = 18.0 psf

	Load Width / Spacing						
Extrusion	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
2X2X.046 Hollow	5'-8"	5'-6"	5'-4"	5'-3"	5'-3"	5'-3"	5'-3"
2X3X.050 Hollow	7'-10"	7'-10"	7'-9"	7'-8"	7'-7"	7'-7"	7'-7"
2X4X.05"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X3X.072"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"

Maximum Spacing (Vertical) 7 ft o.c.; maximum allowable span 7' 10"

FOR 130 mph Wind Zone Exposure C Table 104d
 Unit Load = 21.5 psf

	Load Width / Spacing						
Extrusion	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
2X2X.046 Hollow	5'-1"	4'-11"	4'-10"	4'-9"	4'-8"	4'-8"	4'-8"
2X3X.050 Hollow	7'-5"	7'-2"	7'-0"	6'-11"	6'-11"	6'-10"	6'-11"
2X4X.05"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X3X.072"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"

Maximum Spacing (Vertical) 7 ft o.c.; maximum allowable span 7' 10"

FOR 140 mph Wind Zone Exposure C Table 104e
 Unit Load = 24.9 psf

	Load Width / Spacing						
Extrusion	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
2X2X.046 Hollow	4'-7"	4'-5"	4'-4"	4'-3"	4'-3"	4'-3"	4'-3"
2X3X.050 Hollow	6'-10"	6'-8"	6'-6"	6'-5"	6'-4"	6'-4"	6'-4"
2X4X.05"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"	7'-10"
2X3X.072"	7'-10"	7'-10"	7'-10"	7'-10"	7'-9"	7'-9"	7'-9"

Maximum Spacing (Vertical) 7 ft o.c.; maximum allowable span 7' 10"

NOTE (Table 104): maximum span of 7' 10" governed by maximum post spacing of 8' 0"

2X3X.072"	7'-10"	7'-10"	7'-10"	7'-10"	7'-9"	7'-9"	7'-9"
-----------	--------	--------	--------	--------	-------	-------	-------

Maximum Spacing (Vertical) 7 ft o.c.; maximum allowable span 7' 10"

NOTE (Table 104): maximum span of 7' 10" governed by maximum post spacing of 8' 0"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins

Table 103

FLAT (HORIZONTAL) PURLINS

6005T5 Alloy

FOR ALL WIND ZONES / FLAT (horizontal) PURLINS

Spans Limited by 300# Live Load for:

2 X 2 X .046" Hollow: Maximum Span = 4' 4"

Otherwise, extrusions listed below, maximum span equal to or greater than 8' 0" for spacings from 5' 0" to 8' 0"

2 X 3 X 0.050 X 0.050 Hollow

2 X 4 X 0.050 X 0.050 Hollow

2 X 3 X 0.072 X 0.072 Hollow

2 X 4 X 0.046 X 0.100 SMB

2 X 5 X 0.050 X 0.116 SMB

2 X 6 X 0.050 X 0.120 SMB

2 X 7 X 0.055 X 0.120 SMB

3 X 3 X 0.072 X 0.072 Hollow

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure C** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 3 ft)

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 3 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	7'-6"	7'-2"	6'-9"	6'-5"	6'-1"	5'-9"	5'-5"
2 X 4 X 0.050 X 0.050 Hollow	8'-0"	7'-7"	7'-2"	6'-9"	6'-4"	5'-11"	5'-8"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	8'-0"	7'-9"	7'-4"	6'-11"	6'-7"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-11"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	8'-0"	8'-1"	7'-9"	7'-4"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 3 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	7'-1"	6'-8"	6'-4"	5'-11"	5'-6"	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	7'-6"	7'-0"	6'-7"	6'-1"	5'-8"	5'-3"	4'-9"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	7'-7"	7'-2"	6'-8"	6'-3"	5'-10"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-2"	7'-10"	7'-5"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	7'-11"	7'-6"	7'-1"	6'-8"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 3 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-8"	6'-3"	5'-9"	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-11"	6'-5"	5'-11"	5'-5"	4'-10"	4'-4"	3'-9"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	7'-6"	7'-0"	6'-6"	5'-11"	5'-5"	4'-11"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-8"	7'-3"	6'-10"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	7'-10"	7'-4"	6'-10"	6'-5"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure C** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 3 ft)

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 3 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-8"	6'-3"	5'-11"	5'-7"	5'-3"	4'-10"	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-11"	6'-7"	6'-2"	5'-9"	5'-4"	4'-11"	4'-7"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	7'-7"	7'-2"	6'-9"	6'-4"	5'-11"	5'-6"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-8"	7'-4"	6'-11"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	7'-10"	7'-5"	7'-1"	6'-8"	6'-4"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-1"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 3 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-2"	5'-9"	5'-4"	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-5"	5'-11"	5'-6"	4'-11"	4'-6"	4'-0"	3'-6"
2 X 3 X 0.072 X 0.072 Hollow	7'-6"	6'-11"	6'-6"	6'-0"	5'-6"	5'-1"	4'-7"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	7'-11"	7'-6"	7'-1"	6'-8"	6'-4"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	7'-9"	7'-3"	6'-10"	6'-4"	5'-11"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-10"	7'-5"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 3 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-8"	NA	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-10"	5'-3"	4'-8"	4'-1"	3'-5"	2'-9"	1'-10"
2 X 3 X 0.072 X 0.072 Hollow	6'-11"	6'-4"	5'-9"	5'-2"	4'-7"	4'-0"	3'-4"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	7'-5"	6'-11"	6'-6"	6'-1"	5'-7"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	7'-2"	6'-8"	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-8"	7'-3"	6'-9"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure C** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 3 ft)

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 3 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-9"	5'-4"	4'-11"	4'-7"	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-11"	5'-7"	5'-1"	4'-8"	4'-3"	3'-10"	3'-4"
2 X 3 X 0.072 X 0.072 Hollow	6'-11"	6'-6"	6'-0"	5'-7"	5'-2"	4'-9"	4'-4"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	7'-9"	7'-4"	6'-11"	6'-7"	6'-3"	5'-10"
2 X 5 X 0.050 X 0.050 Hollow	7'-7"	7'-2"	6'-9"	6'-4"	5'-11"	5'-6"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-1"	7'-8"	7'-3"	6'-11"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-1"

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 3 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-2"	NA	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-4"	4'-10"	4'-3"	3'-8"	3'-1"	2'-5"	1'-6"
2 X 3 X 0.072 X 0.072 Hollow	6'-4"	5'-9"	5'-3"	4'-9"	4'-2"	3'-7"	2'-11"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	7'-3"	6'-10"	6'-4"	5'-11"	5'-6"	5'-1"
2 X 5 X 0.050 X 0.050 Hollow	7'-1"	6'-7"	6'-1"	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	7'-11"	7'-6"	7'-0"	6'-7"	6'-2"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"	7'-4"

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 3 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	4'-7"	3'-11"	3'-2"	2'-3"	0'-11"	NA	NA
2 X 3 X 0.072 X 0.072 Hollow	5'-7"	4'-11"	4'-4"	3'-7"	2'-10"	1'-10"	NA
2 X 5 X 0.050 X 0.116 SMB	7'-3"	6'-8"	6'-2"	5'-8"	5'-2"	4'-8"	4'-2"
2 X 5 X 0.050 X 0.050 Hollow	6'-6"	NA	NA	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	7'-4"	6'-10"	6'-4"	5'-9"	5'-3"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-1"	7'-6"	6'-11"	6'-5"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure C** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 3 ft)

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 3 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	4'-11"	4'-7"	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-1"	4'-8"	4'-2"	3'-8"	3'-2"	2'-7"	1'-11"
2 X 3 X 0.072 X 0.072 Hollow	6'-0"	5'-7"	5'-1"	4'-7"	4'-2"	3'-8"	3'-2"
2 X 5 X 0.050 X 0.116 SMB	7'-3"	6'-10"	6'-6"	6'-1"	5'-8"	5'-4"	4'-11"
2 X 5 X 0.050 X 0.050 Hollow	6'-8"	6'-3"	5'-10"	5'-5"	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	7'-6"	7'-1"	6'-8"	6'-4"	5'-11"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-10"	7'-5"	6'-11"

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 3 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	4'-4"	3'-9"	3'-1"	2'-3"	1'-2"	NA	NA
2 X 3 X 0.072 X 0.072 Hollow	5'-3"	4'-9"	4'-1"	3'-6"	2'-9"	1'-11"	0'-4"
2 X 5 X 0.050 X 0.116 SMB	6'-9"	6'-3"	5'-10"	5'-4"	4'-11"	4'-5"	3'-11"
2 X 5 X 0.050 X 0.050 Hollow	6'-1"	NA	NA	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	7'-5"	6'-11"	6'-5"	5'-11"	5'-5"	4'-11"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	7'-7"	7'-1"	6'-7"	6'-1"

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 3 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	3'-4"	2'-5"	1'-1"	NA	NA	NA	NA
2 X 3 X 0.072 X 0.072 Hollow	4'-5"	3'-8"	2'-10"	1'-9"	NA	NA	NA
2 X 5 X 0.050 X 0.116 SMB	6'-2"	5'-8"	5'-1"	4'-6"	NA	NA	NA
2 X 5 X 0.050 X 0.050 Hollow	NA	NA	NA	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	7'-4"	6'-9"	6'-2"	5'-7"	5'-1"	4'-6"	3'-10"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	7'-5"	6'-9"	6'-2"	5'-7"	4'-11"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure C** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 4 ft)

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 4 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-5"	6'-2"	5'-10"	5'-6"	5'-2"	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-9"	6'-5"	6'-1"	5'-9"	5'-4"	4'-11"	4'-7"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	8'-0"	7'-1"	6'-8"	6'-4"	5'-11"	5'-7"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"	7'-5"	7'-1"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	7'-5"	7'-1"	6'-9"	6'-5"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 4 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-0"	5'-8"	5'-4"	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-4"	5'-11"	5'-5"	5'-0"	4'-6"	4'-0"	3'-6"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	6'-11"	6'-6"	6'-0"	5'-7"	5'-2"	4'-8"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	7'-7"	7'-3"	6'-10"	6'-6"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	7'-3"	6'-10"	6'-6"	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-8"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 100&110 mph Wind Zones** **Table 103a&b**
Sloping Purlins (Rise = 4 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-7"	NA	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-9"	5'-3"	4'-9"	4'-2"	3'-6"	2'-10"	1'-11"
2 X 3 X 0.072 X 0.072 Hollow	6'-10"	6'-4"	5'-10"	5'-4"	4'-9"	4'-2"	3'-6"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	7'-1"	6'-8"	6'-3"	5'-10"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	7'-2"	6'-9"	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-5"	6'-11"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure C** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 4 ft)

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 4 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-7"	5'-4"	4'-11"	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-10"	5'-6"	5'-1"	4'-8"	4'-3"	3'-10"	3'-4"
2 X 3 X 0.072 X 0.072 Hollow	6'-9"	6'-5"	6'-0"	5'-8"	5'-3"	4'-10"	4'-5"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	7'-5"	7'-1"	6'-9"	6'-5"	6'-0"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	7'-2"	6'-9"	6'-5"	6'-0"	5'-8"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-6"	7'-1"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 4 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-2"	NA	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-3"	4'-10"	4'-4"	3'-9"	3'-2"	2'-6"	1'-8"
2 X 3 X 0.072 X 0.072 Hollow	6'-3"	5'-10"	5'-4"	4'-10"	4'-4"	3'-9"	3'-2"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	6'-11"	6'-6"	6'-1"	5'-9"	5'-4"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	6'-7"	6'-2"	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-3"	6'-10"	6'-5"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-8"

Maximum Spacing 8 ft **FOR 120 mph Wind Zone** **Table 103c**
Sloping Purlins (Rise = 4 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	4'-8"	4'-1"	3'-5"	2'-7"	1'-6"	NA	NA
2 X 3 X 0.072 X 0.072 Hollow	5'-8"	5'-1"	4'-6"	3'-11"	3'-2"	2'-4"	0'-11"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	6'-10"	6'-4"	5'-11"	5'-6"	4'-11"	4'-6"
2 X 5 X 0.050 X 0.050 Hollow	6'-6"	6'-0"	NA	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	7'-1"	6'-7"	6'-1"	5'-8"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-4"	6'-10"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure C** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 4 ft)

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 4 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	6'-3"	5'-11"	5'-8"	5'-4"	5'-0"	4'-8"	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-8"	6'-4"	5'-11"	5'-7"	5'-2"	4'-10"	4'-5"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	7'-3"	6'-10"	6'-6"	6'-1"	5'-8"	5'-4"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-4"	7'-0"	6'-8"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	8'-0"	7'-2"	6'-9"	6'-5"	6'-1"
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 4 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-10"	5'-6"	5'-2"	4'-9"	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	6'-2"	5'-9"	5'-4"	4'-10"	4'-4"	3'-10"	3'-4"
2 X 3 X 0.072 X 0.072 Hollow	8'-0"	6'-8"	6'-3"	5'-9"	5'-4"	4'-10"	4'-4"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	8'-0"	7'-2"	6'-10"	6'-5"	6'-0"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	8'-0"	6'-11"	6'-6"	6'-1"	5'-8"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-6"	7'-1"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Maximum Spacing 8 ft **FOR 130 mph Wind Zone** **Table 103d**
Sloping Purlins (Rise = 4 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-5"	4'-11"	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-7"	5'-1"	4'-7"	3'-11"	3'-4"	2'-7"	1'-7"
2 X 3 X 0.072 X 0.072 Hollow	6'-7"	6'-1"	5'-7"	5'-0"	4'-5"	3'-10"	3'-1"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	7'-1"	6'-8"	6'-2"	5'-9"	5'-4"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	6'-10"	6'-4"	5'-10"	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-4"	6'-11"	6'-5"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-8"

APPENDIX D
Chapter 1 Span Tables for Alloys 6061T6 OR 6005T5

ALLOWABLE SPANS for Purlins **Exposure C** **6005T5 Alloy** **Table 103**
Sloping Purlins (Rise = 4 ft)

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 4 ft) **Wall Height = 8 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	5'-5"	5'-2"	4'-10"	4'-5"	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-9"	5'-4"	4'-11"	4'-7"	4'-1"	3'-8"	3'-2"
2 X 3 X 0.072 X 0.072 Hollow	6'-7"	6'-2"	5'-10"	5'-5"	4'-11"	4'-7"	4'-2"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	8'-0"	7'-0"	6'-8"	6'-4"	5'-11"	5'-8"
2 X 5 X 0.050 X 0.050 Hollow	8'-0"	6'-10"	6'-6"	6'-1"	5'-9"	5'-4"	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-4"	7'-0"	6'-8"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-9"

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 4 ft) **Wall Height = 11 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	4'-11"	4'-7"	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	5'-2"	4'-8"	4'-2"	3'-7"	3'-0"	2'-3"	1'-4"
2 X 3 X 0.072 X 0.072 Hollow	6'-0"	5'-7"	5'-1"	4'-7"	4'-0"	3'-5"	2'-10"
2 X 5 X 0.050 X 0.116 SMB	8'-0"	6'-10"	6'-6"	6'-1"	5'-8"	5'-3"	4'-10"
2 X 5 X 0.050 X 0.050 Hollow	6'-8"	6'-3"	5'-10"	5'-5"	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	8'-0"	7'-2"	6'-9"	6'-4"	5'-11"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-5"	6'-11"

Maximum Spacing 8 ft **FOR 140 mph Wind Zone** **Table 103e**
Sloping Purlins (Rise = 4 ft) **Wall Height = 14 ft**

Extrusion (Purlin)	Load Width / Spacing						
	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2 X 4 X 0.046 X 0.100 SMB	NA	NA	NA	NA	NA	NA	NA
2 X 4 X 0.050 X 0.050 Hollow	4'-6"	3'-10"	3'-2"	2'-4"	1'-0"	NA	NA
2 X 3 X 0.072 X 0.072 Hollow	5'-5"	4'-10"	4'-3"	3'-7"	2'-9"	1'-9"	NA
2 X 5 X 0.050 X 0.116 SMB	6'-10"	6'-4"	5'-11"	5'-5"	4'-11"	4'-6"	NA
2 X 5 X 0.050 X 0.050 Hollow	6'-2"	5'-8"	NA	NA	NA	NA	NA
2 X 6 X 0.050 X 0.120 SMB	8'-0"	8'-0"	7'-0"	6'-6"	6'-0"	5'-6"	5'-0"
2 X 7 X 0.055 X 0.120 SMB	8'-0"	8'-0"	8'-0"	8'-0"	7'-2"	6'-8"	6'-2"