

MOSAIC
— PLANKS & BATTENS

Batten Span Tables

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 **Lumabuilt**

SINGLE-SPAN ANCHORAGE CHART

Framing: **Closed Wall Framing**

Substrate: **1/2" Plywood**

2" Batten Assemblies

Attachment Options: L Bracket, U Bracket, Angle Bracket, Direct to Substrate

BATTEN SIZE	SPAN (in.)								
	24	36	48	60	72	84	96	108	120
2" X 2"	75 {13}	75 {19}	75 {25}	75 {31}	75 {38}	72 {42}	63 {42}	56 {42}	50 {42}
2" X 3"	75 {19}	75 {28}	75 {38}	67 {42}	56 {42}	48 {42}	42 {42}	37 {42}	34 {42}
2" X 4"	75 {25}	75 {38}	63 {42}	50 {42}	42 {42}	36 {42}	32 {42}	28 {42}	25 {42}
2" X 6"	75 {38}	56 {42}	42 {42}	34 {42}	28 {42}	24 {42}	21 {42}	19 {42}	17 {42}
2" X 6" - 45°	75 {31}	67 {42}	50 {42}	40 {42}	34 {42}	29 {42}	25 {42}	22 {42}	20 {42}
2" X 8"	63 {42}	42 {42}	32 {42}	25 {42}	21 {42}	18 {42}	16 {42}	N/A	N/A
2" X 10"	50 {42}	34 {42}	25 {42}	20 {42}	17 {42}	N/A	N/A	N/A	N/A
2" X 12"	42 {42}	28 {42}	21 {42}	17 {42}	N/A	N/A	N/A	N/A	N/A
2" X 12" - 45°	51 {42}	34 {42}	25 {42}	20 {42}	17 {42}	N/A	N/A	N/A	N/A
2" X 14"	36 {42}	24 {42}	18 {42}	N/A	N/A	N/A	N/A	N/A	N/A
2" X 16"	32 {42}	21 {42}	16 {42}	N/A	N/A	N/A	N/A	N/A	N/A

ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}

Batten Assemblies

Attachment Options: L Bracket, U Bracket, Angle Bracket, Direct to Substrate

BATTEN SIZE	SPAN (in.)								
	24	36	48	60	72	84	96	108	120
6" X 1"	75 {38}	56 {42}	42 {42}	34 {42}	28 {42}	24 {42}	21 {42}	18 {42}	N/A
4" X 2"	75 {25}	75 {38}	63 {42}	50 {42}	42 {42}	36 {42}	32 {42}	28 {42}	25 {42}

ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}

L-Connect Batten Assemblies

Attachment Options: L Bracket, U Bracket, Angle Bracket, Direct to Substrate

BATTEN SIZE	SPAN (in.)								
	24	36	48	60	72	84	96	108	120
1" X 3"	75 {19}	75 {28}	75 {38}	67 {42}	56 {42}	44 {38}	29 {29}	21 {23}	N/A
1" X 4"	75 {25}	75 {38}	63 {42}	50 {42}	42 {42}	36 {49}	28 {37}	20 {29}	N/A
1" X 5"	75 {31}	67 {42}	50 {42}	40 {42}	34 {42}	29 {42}	25 {42}	19 {36}	N/A
1" X 6"	75 {38}	56 {42}	42 {42}	34 {42}	28 {42}	24 {42}	21 {42}	19 {36}	N/A
1" X 6" - 45°	75 {31}	67 {42}	50 {42}	40 {42}	34 {42}	29 {42}	25 {42}	22 {42}	20 {42}

ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}

Solid Battens

Attachment Options: L Bracket, U Bracket, Angle Bracket

BATTEN SIZE	SPAN (in.)								
	24	36	48	60	72	84	96	108	120
1" X 3"	75 {19}	75 {28}	75 {38}	67 {42}	51 {38}	32 {28}	22 {22}	N/A	N/A
1" X 4"	75 {25}	75 {38}	63 {42}	50 {42}	42 {42}	32 {37}	21 {28}	N/A	N/A
1" X 5"	75 {31}	67 {42}	50 {42}	40 {42}	34 {42}	29 {42}	21 {35}	N/A	N/A
1" X 6"	75 {38}	67 {42}	50 {42}	40 {42}	34 {42}	29 {42}	21 {41}	N/A	N/A
1" X 6" - 45°	75 {31}	67 {42}	50 {42}	40 {42}	34 {42}	29 {42}	25 {42}	22 {42}	20 {42}
1" X 8"	63 {42}	42 {42}	32 {42}	25 {42}	21 {42}	18 {42}	16 {42}	N/A	N/A
1" X 8" - 45°	75 {40}	53 {42}	40 {42}	32 {42}	26 {42}	23 {42}	20 {42}	18 {42}	16 {42}
2" X 8"	63 {42}	42 {42}	32 {42}	25 {42}	21 {42}	18 {42}	16 {42}	N/A	N/A
2" X 8" - 45°	75 {40}	53 {42}	40 {42}	32 {42}	26 {42}	23 {42}	20 {42}	18 {42}	16 {42}
2" X 8" - 6SB	63 {42}	42 {42}	32 {42}	25 {42}	21 {42}	18 {42}	16 {42}	N/A	N/A

ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}

SINGLE-SPAN ANCHORAGE CHART

Framing: **Closed Wall Framing**

Substrate: **18-Gauge Steel**

2" Batten Assemblies

Attachment Options: L Bracket, U Bracket, Angle Bracket, Direct to Substrate

BATTEN SIZE	SPAN (in.)								
	24	36	48	60	72	84	96	108	120
2" X 2"	75 {13}	75 {19}	75 {25}	75 {31}	75 {38}	75 {44}	75 {50}	75 {56}	75 {63}
2" X 3"	75 {19}	75 {28}	75 {38}	75 {47}	75 {56}	75 {66}	75 {75}	75 {84}	75 {94}
2" X 4"	75 {25}	75 {38}	75 {50}	75 {63}	75 {75}	75 {88}	75 {100}	75 {113}	75 {125}
2" X 6"	75 {38}	75 {56}	75 {75}	75 {94}	75 {113}	75 {131}	75 {150}	75 {169}	75 {173}
2" X 6" - 45°	75 {31}	75 {47}	75 {63}	75 {78}	75 {94}	75 {109}	75 {125}	75 {141}	75 {156}
2" X 8"	75 {50}	75 {75}	75 {100}	75 {125}	75 {150}	75 {175}	75 {200}	75 {225}	75 {248}
2" X 10"	75 {63}	75 {94}	75 {125}	75 {156}	75 {188}	75 {219}	74 {248}	66 {248}	60 {248}
2" X 12"	75 {75}	75 {113}	75 {150}	75 {188}	75 {225}	71 {248}	62 {248}	55 {248}	50 {248}
2" X 12" - 45°	75 {62}	75 {93}	75 {124}	75 {154}	75 {185}	75 {216}	75 {247}	67 {248}	60 {248}
2" X 14"	75 {88}	75 {131}	75 {175}	75 {219}	71 {248}	61 {248}	53 {248}	47 {248}	43 {248}
2" X 16"	75 {100}	75 {150}	75 {200}	74 {248}	62 {248}	53 {248}	47 {248}	41 {248}	37 {248}

ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}

Batten Assemblies

Attachment Options: L Bracket, U Bracket, Angle Bracket, Direct to Substrate

BATTEN SIZE	SPAN (in.)								
	24	36	48	60	72	84	96	108	120
6" X 1"	75 {38}	75 {56}	75 {75}	75 {94}	61 {92}	39 {67}	26 {52}	18 {41}	N/A
4" X 2"	75 {25}	75 {38}	75 {50}	75 {63}	75 {75}	75 {88}	75 {100}	75 {113}	68 {113}

ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}

L-Connect Batten Assemblies

Attachment Options: L Bracket, U Bracket, Angle Bracket, Direct to Substrate

BATTEN SIZE	SPAN (in.)								
	24	36	48	60	72	84	96	108	120
1" X 3"	75 {19}	75 {28}	75 {38}	75 {47}	70 {52}	44 {38}	29 {29}	21 {23}	N/A
1" X 4"	75 {25}	75 {38}	75 {50}	75 {63}	66 {66}	42 {49}	28 {37}	20 {29}	N/A
1" X 5"	75 {31}	75 {47}	75 {63}	75 {78}	64 {80}	40 {59}	27 {45}	19 {36}	N/A
1" X 6"	75 {38}	75 {56}	75 {75}	75 {94}	63 {95}	40 {70}	27 {53}	19 {36}	N/A
1" X 6" - 45°	75 {31}	75 {47}	75 {63}	75 {78}	75 {94}	75 {109}	75 {125}	75 {141}	75 {156}

ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}

Solid Battens

Attachment Options: L Bracket, U Bracket, Angle Bracket

BATTEN SIZE	SPAN (in.)								
	24	36	48	60	72	84	96	108	120
1" X 3"	75 {19}	75 {28}	75 {38}	75 {47}	51 {38}	32 {28}	22 {22}	N/A	N/A
1" X 4"	75 {25}	75 {38}	75 {50}	75 {63}	50 {50}	32 {37}	21 {28}	N/A	N/A
1" X 5"	75 {31}	75 {47}	75 {63}	75 {78}	49 {62}	31 {45}	21 {35}	N/A	N/A
1" X 6"	75 {38}	75 {56}	75 {75}	75 {95}	49 {74}	31 {54}	21 {41}	N/A	N/A
1" X 6" - 45°	75 {31}	75 {47}	75 {63}	75 {78}	75 {94}	75 {109}	75 {125}	75 {141}	75 {156}
1" X 8"	75 {50}	75 {75}	75 {100}	75 {125}	59 {119}	37 {87}	25 {67}	18 {53}	N/A
1" X 8" - 45°	75 {40}	75 {60}	75 {79}	75 {99}	75 {119}	75 {139}	75 {159}	75 {179}	75 {198}
2" X 8"	75 {50}	75 {75}	75 {100}	75 {125}	75 {150}	75 {175}	74 {200}	75 {225}	60 {200}
2" X 8" - 45°	75 {71}	75 {106}	75 {141}	75 {177}	75 {212}	75 {247}	66 {248}	58 {248}	53 {248}
2" X 8" - 6SB	75 {50}	75 {75}	75 {100}	75 {125}	75 {150}	75 {175}	74 {200}	75 {225}	60 {200}

ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}

MULTI-ATTACHMENT ANCHORAGE CHART

Framing: **Closed Wall Framing**

Substrate: **18-Gauge Steel**

2" Batten Assemblies

Attachment Options: L Bracket, U Bracket, Angle Bracket, Direct to Substrate

BATTEN SIZE	NUMBER OF ATTACHMENT POINTS - SPAN"		
	2- SPAN@132"	3- SPAN@88"	4- SPAN@66"
2" X 2"	75 {172}	75 {101}	75 {78}
2" X 3"	72 {143}	75 {151}	75 {118}
2" X 4"	54 {248}	75 {202}	75 {157}
2" X 6"	36 {248}	61 {248}	75 {235}
2" X 6" - 45°	43 {248}	74 {248}	75 {196}
2" X 8"	27 {248}	46 {248}	59 {248}
2" X 10"	22 {248}	37 {248}	48 {248}
2" X 12"	18 {248}	31 {248}	40 {248}
2" X 12" - 45°	22 {248}	37 {248}	48 {248}
2" X 14"	16 {248}	26 {248}	34 {248}
2" X 16"	14 {248}	23 {248}	30 {248}
ALLOWABLE LOAD - psf {REACTION - lb}			

Batten Assemblies

Attachment Options: L Bracket, U Bracket, Angle Bracket, Direct to Substrate

BATTEN SIZE	NUMBER OF ATTACHMENT POINTS - SPAN"		
	2- SPAN@132"	3- SPAN@88"	4- SPAN@66"
6" X 1"	14 {97}	47 {191}	75 {235}
4" X 2"	54 {248}	75 {202}	75 {157}
ALLOWABLE LOAD - psf {REACTION - lb}			

L-Connect Batten Assemblies

Attachment Options: L Bracket, U Bracket, Angle Bracket, Direct to Substrate

BATTEN SIZE	NUMBER OF ATTACHMENT POINTS - SPAN"		
	2- SPAN@132"	3- SPAN@88"	4- SPAN@66"
1" X 3"	16 {55}	54 {109}	75 {118}
1" X 4"	15 {70}	51 {138}	75 {157}
1" X 5"	15 {84}	50 {167}	75 {196}
1" X 6"	14 {97}	49 {198}	75 {235}
1" X 6" - 45°	26 {248}	74 {248}	75 {233}
ALLOWABLE LOAD - psf {REACTION - lb}			

Solid Battens

Attachment Options: L Bracket, U Bracket, Angle Bracket, Direct to Substrate

BATTEN SIZE	NUMBER OF ATTACHMENT POINTS - SPAN"		
	2- SPAN@132"	3- SPAN@88"	4- SPAN@66"
1" X 3"	12 {40}	40 {80}	75 {118}
1" X 4"	12 {53}	39 {105}	75 {157}
1" X 5"	9 {54}	38 {129}	75 {196}
1" X 6"	11 {78}	38 {154}	75 {235}
1" X 6" - 45°	26 {248}	74 {248}	75 {233}
1" X 8"	14 {125}	46 {247}	59 {248}
1" X 8" - 45°	34 {248}	58 {248}	75 {248}
2" X 8"	27 {248}	46 {248}	59 {248}
2" X 8" - 45°	34 {248}	58 {248}	75 {248}
2" X 8" - 6SB	27 {248}	46 {248}	59 {248}
ALLOWABLE LOAD - psf {REACTION - lb}			



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