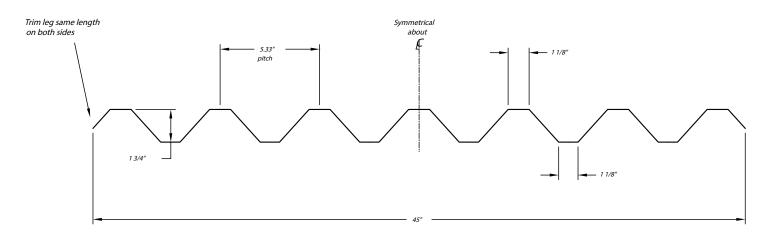
ENGINEERED SOLUTIONS

7721 load span table

PROFILE #041 5.33 x 1-3/4 V-Beam



041CTN | 8oz. Cooling Tower Non-Fire Rated

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS Panel Description: 5.33" x 1 3/4" V Cooling Tower - NonFirerated	Beam	LIMITING	CRITERIA:		fety Factor ength = 250			lection Limi lodulus = 60	t Ratio (L/D) 00000 psi)					
8 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
	1 SPAN				2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	9'-4"	9'-4"	10'-6"	7'-8"	7'-8"	8'-7"	6'-8"	6'-8"	7'-5"	5'-11"	5'-11"	6'-8"	5'-5"	5'-5"	6'-1"
Deflection Limit	4'-5"	5'-10"	5'-5"	3'-10"	5'-1"	4'-9"	3'-6"	4'-8"	4'-3"	3'-3"	4'-4"	4'-0"	3'-0"	4'-1"	3'-9"

ROOFING/SIDING: WIND LOADS		LIMITING	CRITERIA:	1.88 to 1 S	afety Factor	r	20 to 1 Def	lection Limi	t Ratio (L/D))					
Panel Description: 5.33" x 1 3/4" V	Beam			Panel Stre	ngth = 250	00 psi	Flexural M	lodulus = 60	00000 psi						
Cooling Tower - NonFirerated															
8 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	10'-10"	10'-10"	12'-1"	8'-10"	8'-10"	9'-10"	7'-8"	7'-8"	8'-7"	6'-10"	6'-10"	7'-8"	6'-3"	6'-3"	7'-0"
Deflection Limit	5'-9"	7'-8"	7'-1"	5'-0"	6'-9"	6'-2"	4'-7"	6'-1"	5'-7"	4'-3"	5'-8"	5'-3"	4'-0"	5'-4"	4'-11"

041CTN | 12oz. Cooling Tower Non-Fire Rated

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS		LIMITING (CRITERIA:	2.5 to 1 Sa	fety Factor		45 to 1 Def	lection Limi	t Ratio (L/D))					
Panel Description: 5.33" x 1 3/4" V	Beam			Panel Stre	ngth = 250	00 psi	Flexural M	lodulus = 60	00000 psi						
Cooling Tower - NonFirerated															
12 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
	1 SPAN				2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	11'-5"	11'-5"	12'-9"	9'-4"	9'-4"	10'-5"	8'-1"	8'-1"	9'-0"	7'-3"	7'-3"	8'-1"	6'-7"	6'-7"	7'-4"
Deflection Limit	5'-0"	6'-9"	6'-2"	4'-5"	5'-10"	5'-5"	4'-0"	5'-4"	4'-11"	3'-8"	4'-11"	4'-7"	3'-6"	4'-8"	4'-3"

ROOFING/SIDING: WIND LOADS Panel Description: 5.33" x 1 3/4" V Cooling Tower - NonFirerated	Beam	LIMITING (CRITERIA:	1.88 to 1 S Panel Stre	afety Factor ength = 250			lection Limi lodulus = 60	t Ratio (L/D 00000 psi)					
12 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
	1 SPAN				2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	13'-2"	13'-2"	14'-9"	10'-9"	10'-9"	12'-0"	9'-4"	9'-4"	10'-5"	8'-4"	8'-4"	9'-4"	7'-7"	7'-7"	8'-6"
Deflection Limit	6'-7"	8'-10"	8'-1"	5'-9"	7'-8"	7'-1"	5'-3"	7'-0"	6'-5"	4'-10"	6'-6"	6'-0"	4'-7"	6'-1"	5'-7"





041CTN | 16oz. Cooling Tower Non-Fire Rated

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ROOFING: POSITIVE LOADS		LIMITING	CRITERIA:	2.5 to 1 Sa	fety Factor		45 to 1 Det	lection Limi	t Ratio (L/D)					
Panel Description: 5.33" x 1 3/4" V	Beam			Panel Stre	ength = 250	00 psi	Flexural M	lodulus = 60	00000 psi						
Cooling Tower - NonFirerated															
16 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	13'-1"	13'-1"	14'-8"	10'-9"	10'-9"	12'-0"	9'-3"	9'-3"	10'-4"	8'-4"	8'-4"	9'-3"	7'-7"	7'-7"	8'-6"
Deflection Limit	5'-6"	7'-5"	6'-10"	4'-10"	6'-5"	5'-11"	4'-5"	5'-10"	5'-5"	4'-1"	5'-5"	5'-0"	3'-10"	5'-1"	4'-9"

ROOFING/SIDING: WIND LOADS Panel Description: 5.33" x 1 3/4" V Cooling Tower - NonFirerated	Beam	LIMITING	CRITERIA:	1.88 to 1 S Panel Stre	afety Factor ength = 2500			lection Limi lodulus = 60	t Ratio (L/D) 00000 psi)					
16 oz./sq. ft.		20 psf SPAN			30 psf			40 psf			50 psf			60 psf	
	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	15'-2"	15'-2"	16'-11"	12'-4"	12'-4"	13'-10"	10'-8"	10'-8"	12'-0"	9'-7"	9'-7"	10'-8"	8'-9"	8'-9"	9'-9"
Deflection Limit	7'-3"	9'-8"	8'-11"	6'-4"	8'-6"	7'-10"	5'-9"	7'-8"	7'-1"	5'-4"	7'-2"	6'-7"	5'-0"	6'-9"	6'-2"

041CTA | 12oz. Cooling Tower Fire Rated

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS Panel Description: 5.33" x 1 3/4" V Cooling Tower - Firerated	Beam	LIMITING	CRITERIA:		fety Factor ength = 200	00 psi		lection Limi lodulus = 45	t Ratio (L/D 50000 psi)					
12 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
	1 SPAN				2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	10'-3"	10'-3"	11'-6"	8'-5"	8'-5"	9'-5"	7'-3"	7'-3"	8'-2"	6'-6"	6'-6"	7'-3"	5'-11"	5'-11"	6'-8"
Deflection Limit	4'-7"	6'-2"	5'-8"	4'-0"	5'-4"	4'-11"	3'-8"	4'-10"	4'-6"	3'-4"	4'-6"	4'-2"	3'-2"	4'-3"	3'-11"

ROOFING/SIDING: WIND LOADS Panel Description: 5.33" x 1 3/4" V Cooling Tower - Firerated	Beam	LIMITING	CRITERIA:	1.88 to 1 S Panel Stre	afety Factor ength = 200		20 to 1 Def Flexural M	lection Limi lodulus = 45)					
12 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	11'-10"	11'-10"	13'-3"	9'-8"	9'-8"	10'-10"	8'-5"	8'-5"	9'-4"	7'-6"	7'-6"	8'-5"	6'-10"	6'-10"	7'-8"
Deflection Limit	6'-0"	8'-0"	7'-5"	5'-3"	7'-0"	6'-6"	4'-9"	6'-4"	5'-10"	4'-5"	5'-11"	5'-5"	4'-2"	5'-7"	5'-2"

041CTA | 16oz. Cooling Tower Fire Rated

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS		LIMITING	CRITERIA:	2.5 to 1 Sa	fety Factor		45 to 1 De	flection Lim	it Ratio (L/D	0)					
Panel Description: 5.33" x 1 3/4" V	Beam			Panel Stre	ength = 10,0	000 psi	Flexural M	lodulus = 4	50,000 psi						
Cooling Tower - Firerated		20 psf													
16.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
Generic: 041CTA	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	8'-4"	8'-4"	9'-4"	6'-10"	6'-10"	7'-7"	5'-11"	5'-11"	6'-7"	5'-3"	5'-3"	5'-11"	4'-10"	4'-10"	5'-5"
Deflection Limit	5'-0"	6'-9"	6'-3"	4'-5"	5'-11"	5'-5"	4'-0"	5'-4"	4'-11"	3'-8"	5'-0"	4'-7"	3'-6"	4'-8"	4'-4"

Generic: 041CTA

ROOFING/SIDING: WIND LOADS Panel Description: 5.33" x 1 3/4" V	Beam	LIMITING	CRITERIA:		afety Facto			flection Lim lodulus = 4	it Ratio (L/D 50.000 psi))					
Cooling Tower - Firerated		20 psf				•									
16.0 oz./sq. ft.					30 psf			40 psf			50 psf			60 psf	
Generic: 041CTA	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	9'-8"	9'-8"	10'-9"	7'-10"	7'-10"	8'-9"	6'-10"	6'-10"	7'-7"	6'-1"	6'-1"	6'-10"	5'-7"	5'-7"	6'-3"
Deflection Limit	6'-7"	8'-10"	8'-2"	5'-9"	7'-9"	7'-1"	5'-3"	7'-0"	6'-6"	4'-10"	6'-6"	6'-0"	4'-7"	6'-2"	5'-8"



ROOFING: POSITIVE LOADS Panel Description: 5.33" x 1 3/4" V IsoTuf High-Strength	Beam	LIMITING	CRITERIA:		fety Factor ength = 300	00 psi		lection Limi lodulus = 10	t Ratio (L/D 000000 psi)					
16 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
	1 SPAN				2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	15'-4"	15'-4"	17'-2"	12'-6"	12'-6"	14'-0"	10'-10"	10'-10"	12'-1"	9'-8"	9'-8"	10'-10"	8'-10"	8'-10"	9'-11"
Deflection Limit	6'-10"	9'-2"	8'-5"	6'-0"	8'-0"	7'-5"	5'-5"	7'-3"	6'-8"	5'-0"	6'-9"	6'-3"	4'-9"	6'-4"	5'-10"

ROOFING/SIDING: WIND LOADS Panel Description: 5.33" x 1 3/4" V IsoTuf High-Strength	CRITERIA:	1.88 to 1 Safety Factor Panel Strength = 30000 psi				t Ratio (L/D) 000000 psi)								
16 oz./sq. ft.	20 psf			30 psf			40 psf			50 psf			60 psf		
·	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN	1 SPAN	2 SPAN	3+ SPAN
Stress Limit	17'-8"	17'-8"	19'-9"	14'-5"	14'-5"	16'-2"	12'-6"	12'-6"	14'-0"	11'-2"	11'-2"	12'-6"	10'-2"	10'-2"	11'-5"
Deflection Limit	9'-0"	12'-0"	11'-1"	7'-10"	10'-6"	9'-8"	7'-1"	9'-6"	8'-9"	6'-7"	8'-10"	8'-2"	6'-3"	8'-4"	7'-8"

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Composites

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