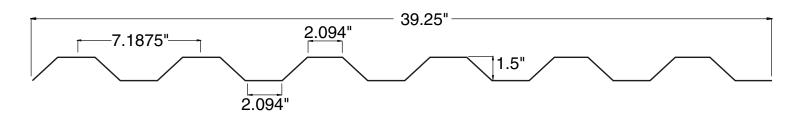
ENGINEERED SOLUTIONS

3455 load span table

PROFILE #455 7.2 x 1½ Box Rib



455ST | 12oz. SunStrong

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))					
Panel Description: 7.2 x 1-1/2				Panel Stre	ength = 25,0	000 psi	Flexural M	lodulus = 9	00,000 psi						
SunStrong Profiled															
12.0 oz./sq. ft.		20 psf			30 psf			40 psf	_		50 psf	Ţ		60 psf	
Generic: 455ST	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'-6"	13'-6"	15'-2"	11'-1"	11'-1"	12'-4"	9'-7"	9'-7"	10'-8"	8'-7"	8'-7"	9'-7"	7'-10"	7'-10"	8'-9"
Deflection Limit	6'-2"	8'-3"	7'-7"	5'-4"	7'-2"	6'-8"	4'-11"	6'-6"	6'-0"	4'-6"	6'-1"	5'-7"	4'-3"	5'-9"	5'-3"

Generic: 455ST

ROOFING/SIDING: WIND LOADS Panel Description: 7.2 x 1-1/2 SunStrong Profiled		LIMITING	CRITERIA:	1.88 to 1 S Panel Stre	afety Facto ength = 25,				it Ratio (L/D 00,000 psi))					,
12.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
Generic: 455ST	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'-7"	15'-7"	17'-5"	12'-9"	12'-9"	14'-3"	11'-0"	11'-0"	12'-4"	9'-10"	9'-10"	11'-0"	9'-0"	9'-0"	10'-1"
Deflection Limit	8'-1"	10'-10"	9'-11"	7'-0"	9'-5"	8'-8"	6'-5"	8'-7"	7'-11"	5'-11"	7'-11"	7'-4"	5'-7"	7'-6"	6'-11"

455STW | 12oz. SunStrong High Strength

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))					
Panel Description: 7.2 x 1-1/2				Panel Stre	ength = 25,0	000 psi	Flexural M	Modulus = 9	00,000 psi						
SunStrong - Profiled High Strengt	h														
12.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
Generic: 455STW	1 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'-7"	10'-8"	10'-8"	11'-11"	9'-3"	9'-3"	10'-4"	8'-3"	8'-3"	9'-3"	7'-6"	7'-6"	8'-5"
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"

Generic: 455STW

ROOFING/SIDING: WIND LOADS Panel Description: 7.2 x 1-1/2		LIMITING	CRITERIA:		afety Facto			flection Lim	it Ratio (L/D 00.000 psi))					
SunStrong - Profiled High Strengt	h				,				, , , , , ,						ì
12.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
Generic: 455STW	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'-1"	15'-1"	16'-10"	12'-3"	12'-3"	13'-9"	10'-8"	10'-8"	11'-11"	9'-6"	9'-6"	10'-8"	8'-8"	8'-8"	9'-9"
Deflection Limit	7'-10"	10'-6"	9'-8"	6'-10"	9'-2"	8'-6"	6'-3"	8'-4"	7'-8"	5'-9"	7'-9"	7'-2"	5'-5"	7'-4"	6'-9"





455IF | 8oz. IsoTuf

ROOFING: POSITIVE LOADS		LIMITING	CRITERIA:	2.5 to 1 Sa	fety Factor		45 to 1 De	flection Lim	it Ratio (L/D))					
Panel Description: 7.2 x 1-1/2				Panel Stre	ength = 20,	000 psi	Flexural M	lodulus = 90	00,000 psi						
IsoTuf															
8.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
Generic: 455IF	1 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'-3"	9'-3"	10'-4"	7'-7"	7'-7"	8'-5"	6'-6"	6'-6"	7'-4"	5'-10"	5'-10"	6'-6"	5'-4"	5'-4"	6'-0"
Deflection Limit	5'-1"	6'-10"	6'-4"	4'-5"	6'-0"	5'-6"	4'-1"	5'-5"	5'-0"	3'-9"	5'-0"	4'-8"	3'-6"	4'-9"	4'-4"

Generic: 455IF

ROOFING/SIDING: WIND LOADS Panel Description: 7.2 x 1-1/2 IsoTuf		LIMITING	CRITERIA:		afety Facto ength = 20,			flection Lim Iodulus = 90	it Ratio (L/D 00,000 psi))					
8.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
Generic: 455IF	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'-8"	10'-8"	11'-11"	8'-8"	8'-8"	9'-9"	7'-6"	7'-6"	8'-5"	6'-9"	6'-9"	7'-6"	6'-2"	6'-2"	6'-11"
Deflection Limit	6'-8"	8'-11"	8'-3"	5'-10"	7'-10"	7'-2"	5'-4"	7'-1"	6'-7"	4'-11"	6'-7"	6'-1"	4'-8"	6'-2"	5'-9"

455GP | 8oz. General Purpose

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))					
Panel Description: 7.2 x 1-1/2				Panel Stre	ength = 15,	000 psi	Flexural M	lodulus = 1,	000,000 ps	i					
General Purpose															
8.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
Generic: 455GP	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'-3"	8'-3"	9'-3"	6'-9"	6'-9"	7'-7"	5'-10"	5'-10"	6'-7"	5'-3"	5'-3"	5'-10"	4'-9"	4'-9"	5'-4"
Deflection Limit	5'-5"	7'-3"	6'-8"	4'-9"	6'-4"	5'-10"	4'-3"	5'-9"	5'-4"	4'-0"	5'-4"	4'-11"	3'-9"	5'-0"	4'-8"

Generic: 455GP

ROOFING/SIDING: WIND LOADS		LIMITING	CRITERIA:		,				it Ratio (L/D	,					
Panel Description: 7.2 x 1-1/2				Panel Stre	ength = 15,	000 psi	Flexural M	lodulus = 1,	,000,000 ps	i					Į.
General Purpose															
8.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
Generic: 455GP	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'-7"	9'-7"	10'-8"	7'-10"	7'-10"	8'-9"	6'-9"	6'-9"	7'-7"	6'-1"	6'-1"	6'-9"	5'-6"	5'-6"	6'-2"
Deflection Limit	7'-1"	9'-6"	8'-9"	6'-2"	8'-4"	7'-8"	5'-7"	7'-6"	6'-11"	5'-3"	7'-0"	6'-5"	4'-11"	6'-7"	6'-1"

455DL | 8oz. Duralite

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS Panel Description: 7.2 x 1-1/2 Duralite		LIMITING	CRITERIA:		fety Factor ength = 15,		45 to 1 Det Flexural M		it Ratio (L/D ,000,000 ps	,					
8.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
Generic: 455DL	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'-3"	8'-3"	9'-3"	6'-9"	6'-9"	7'-6"	5'-10"	5'-10"	6'-6"	5'-3"	5'-3"	5'-10"	4'-9"	4'-9"	5'-4"
Deflection Limit	5'-5"	7'-3"	6'-8"	4'-9"	6'-4"	5'-10"	4'-3"	5'-9"	5'-3"	4'-0"	5'-4"	4'-11"	3'-9"	5'-0"	4'-7"

Generic: 455DL

ROOFING/SIDING: WIND LOADS Panel Description: 7.2 x 1-1/2 Duralite		LIMITING	CRITERIA:		Safety Factor ength = 15,0				it Ratio (L/D ,000,000 ps	,					
8.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf			60 psf	
Generic: 455DL	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'-6"	9'-6"	10'-8"	7'-9"	7'-9"	8'-8"	6'-9"	6'-9"	7'-6"	6'-0"	6'-0"	6'-9"	5'-6"	5'-6"	6'-2"
Deflection Limit	7'-1"	9'-6"	8'-9"	6'-2"	8'-3"	7'-7"	5'-7"	7'-6"	6'-11"	5'-2"	7'-0"	6'-5"	4'-11"	6'-7"	6'-1"



455DL | 12oz. Duralite

ROOFING: POSITIVE LOADS		LIMITING	CRITERIA:	2.5 to 1 Sa	fety Factor		45 to 1 Deflection Limit Ratio (L/D)									
Panel Description: 7.2 x 1-1/2				Panel Strength = 15,000 psi			Flexural Modulus = 1,000,000 psi									
Duralite																
12.0 oz./sq. ft.	20 psf			30 psf			40 psf				50 psf		60 psf			
Generic: 455DL	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'-0"	10'-0"	11'-2"	8'-2"	8'-2"	9'-2"	7'-1"	7'-1"	7'-11"	6'-4"	6'-4"	7'-1"	5'-9"	5'-9"	6'-6"	
Deflection Limit	6'-2"	8'-3"	7'-7"	5'-5"	7'-3"	6'-8"	4'-11"	6'-7"	6'-1"	4'-7"	6'-1"	5'-7"	4'-3"	5'-9"	5'-3"	

Generic: 455DL

ROOFING/SIDING: WIND LOADS		LIMITING (CRITERIA:	1.88 to 1 Safety Factor			20 to 1 Deflection Limit Ratio (L/D)									
Panel Description: 7.2 x 1-1/2				Panel Strength = 15,000 psi			Flexural M	lodulus = 1,	000,000 ps	i						
Duralite																
12.0 oz./sq. ft.	20 psf			30 psf			40 psf				50 psf		60 psf			
Generic: 455DL	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'-7"	11'-7"	12'-11"	9'-5"	9'-5"	10'-7"	8'-2"	8'-2"	9'-2"	7'-4"	7'-4"	8'-2"	6'-8"	6'-8"	7'-6"	
Deflection Limit	8'-1"	10'-10"	10'-0"	7'-1"	9'-6"	8'-9"	6'-5"	8'-7"	7'-11"	5'-11"	8'-0"	7'-4"	5'-7"	7'-6"	6'-11"	

455IFW | 16oz. IsoTuf High Strength

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS Panel Description: 7.2 x 1-1/2		LIMITING	CRITERIA:		1 Safety Factor 45 to 1 Deflection Limit Ratio (L/D) el Strength = 30,000 psi Flexural Modulus = 900,000 psi										
IsoTuf High - Strength 16.0 oz./sq. ft. Generic: 455IFW	20 psf 1 SPAN 2 SPAN 3+ SPAN			30 psf 1 SPAN 2 SPAN 3+ SPAN			40 psf 1 SPAN 2 SPAN 3+ SPAN			1 SPAN	50 psf 2 SPAN	3+ SPAN	60 psf 1 SPAN 2 SPAN 3+ SPAN		
Stress Limit Deflection Limit	15'-6" 6'-4"	15'-6" 8'-6"	17'-4" 7'-10"	12'-8" 5'-7"	12'-8" 7'-5"	14'-2" 6'-10"	11'-0" 5'-0"	11'-0" 6'-9"	12'-3" 6'-3"	9'-10" 4'-8"	9'-10" 6'-3"	11'-0" 5'-9"	8'-11" 4'-5"	8'-11" 5'-11"	10'-0" 5'-5"

Generic: 455IFW

ROOFING/SIDING: WIND LOADS Panel Description: 7.2 x 1-1/2 IsoTuf High - Strength		LIMITING	CRITERIA:	1.88 to 1 S Panel Stre	Safety Facto ength = 30,			flection Lim Iodulus = 90	it Ratio (L/D 00,000 psi))					
16.0 oz./sq. ft.	20 psf			30 psf			40 psf				50 psf		60 psf		
Generic: 455IFW	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'-11"	17'-11"	20'-0"	14'-7"	14'-7"	16'-4"	12'-8"	12'-8"	14'-2"	11'-4"	11'-4"	12'-8"	10'-4"	10'-4"	11'-6"
Deflection Limit	8'-4"	11'-2"	10'-3"	7'-3"	9'-9"	9'-0"	6'-7"	8'-10"	8'-2"	6'-2"	8'-3"	7'-7"	5'-9"	7'-9"	7'-1"

455CTA | 16oz. Cooling Tower Fire Rated

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS Panel Description: 7.2 x 1-1/2		LIMITING	CRITERIA:		fety Factor ength = 10,0			flection Lim Iodulus = 4	it Ratio (L/D 50,000 psi)					
Cooling Tower - Firerated															
16.0 oz./sq. ft.	20 psf			30 psf			40 psf				50 psf		60 psf		
Generic: 455CTA	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'-6"	8'-6"	9'-6"	6'-11"	6'-11"	7'-9"	6'-0"	6'-0"	6'-8"	5'-4"	5'-4"	6'-0"	4'-11"	4'-11"	5'-6"
Deflection Limit	4'-10"	6'-6"	6'-0"	4'-3"	5'-8"	5'-3"	3'-10"	5'-2"	4'-9"	3'-7"	4'-9"	4'-5"	3'-4"	4'-6"	4'-2"

Generic: 455CTA

ROOFING/SIDING: WIND LOADS Panel Description: 7.2 x 1-1/2		LIMITING	CRITERIA:		Safety Facto ength = 10,0			flection Lim lodulus = 4	it Ratio (L/D 50,000 psi))					
Cooling Tower - Firerated															
16.0 oz./sq. ft.		20 psf			30 psf			40 psf			50 psf		60 psf		
Generic: 455CTA	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'-9"	9'-9"	10'-11"	8'-0"	8'-0"	8'-11"	6'-11"	6'-11"	7'-9"	6'-2"	6'-2"	6'-11"	5'-8"	5'-8"	6'-4"
Deflection Limit	6'-4"	8'-6"	7'-10"	5'-7"	7'-5"	6'-10"	5'-0"	6'-9"	6'-3"	4'-8"	6'-3"	5'-9"	4'-5"	5'-11"	5'-5"

cranecomposites.com | 1.800.435.0080 | 1.815.467.8666 [fax] | sales@cranecomposites.com

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