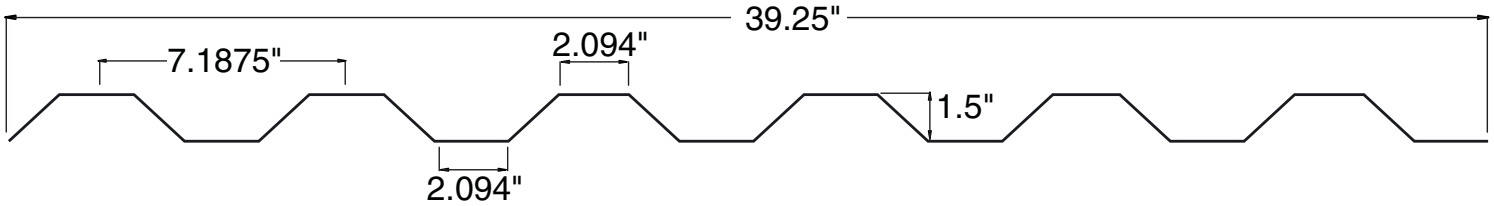


PROFILE #455
7.2 x 1½ Box Rib



455ST | 12oz. SunStrong

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS		LIMITING CRITERIA: 2.5 to 1 Safety Factor						45 to 1 Deflection Limit Ratio (L/D)								
Panel Description: 7.2 x 1-1/2		Panel Strength = 25,000 psi						Flexural Modulus = 900,000 psi								
SunStrong Profiled		20 psf			30 psf			40 psf			50 psf			60 psf		
12.0 oz./sq. ft.		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
Generic: 455ST																
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		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 = 25,000 psi						Flexural Modulus = 900,000 psi								
SunStrong Profiled		20 psf			30 psf			40 psf			50 psf			60 psf		
12.0 oz./sq. ft.		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
Generic: 455ST																
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 Safety Factor						45 to 1 Deflection Limit Ratio (L/D)								
Panel Description: 7.2 x 1-1/2		Panel Strength = 25,000 psi						Flexural Modulus = 900,000 psi								
SunStrong - Profiled High Strength		20 psf			30 psf			40 psf			50 psf			60 psf		
12.0 oz./sq. ft.		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
Generic: 455STW																
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		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 = 25,000 psi						Flexural Modulus = 900,000 psi								
SunStrong - Profiled High Strength		20 psf			30 psf			40 psf			50 psf			60 psf		
12.0 oz./sq. ft.		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
Generic: 455STW																
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

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS		LIMITING CRITERIA: 2.5 to 1 Safety Factor						45 to 1 Deflection Limit Ratio (L/D)								
Panel Description: 7.2 x 1-1/2		Panel Strength = 20,000 psi						Flexural Modulus = 900,000 psi								
IsoTuf		20 psf		30 psf			40 psf			50 psf			60 psf			
8.0 oz./sq. ft.		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
Generic: 455IF		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"
Stress 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"
Deflection Limit																

Generic: 455IF

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 = 20,000 psi						Flexural Modulus = 900,000 psi								
IsoTuf		20 psf		30 psf			40 psf			50 psf			60 psf			
8.0 oz./sq. ft.		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
Generic: 455IF		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"
Stress 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"
Deflection Limit																

455GP | 8oz. General Purpose

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS		LIMITING CRITERIA: 2.5 to 1 Safety 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								
General Purpose		20 psf		30 psf			40 psf			50 psf			60 psf			
8.0 oz./sq. ft.		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
Generic: 455GP		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"
Stress 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"
Deflection Limit																

Generic: 455GP

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 Modulus = 1,000,000 psi								
General Purpose		20 psf		30 psf			40 psf			50 psf			60 psf			
8.0 oz./sq. ft.		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
Generic: 455GP		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"
Stress 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"
Deflection Limit																

455DL | 8oz. Duralite

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS		LIMITING CRITERIA: 2.5 to 1 Safety 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		20 psf		30 psf			40 psf			50 psf			60 psf			
8.0 oz./sq. ft.		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
Generic: 455DL		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"
Stress 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"
Deflection Limit																

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 Modulus = 1,000,000 psi								
Duralite		20 psf		30 psf			40 psf			50 psf			60 psf			
8.0 oz./sq. ft.		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
Generic: 455DL		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"
Stress 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"
Deflection Limit																



455DL | 12oz. Duralite

TABLES BELOW IN FEET AND INCHES ONLY

ROOFING: POSITIVE LOADS		LIMITING CRITERIA: 2.5 to 1 Safety 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		20 psf		30 psf			40 psf			50 psf			60 psf			
Generic: 455DL	12.0 oz./sq. ft.	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 Modulus = 1,000,000 psi								
Duralite		20 psf		30 psf			40 psf			50 psf			60 psf			
Generic: 455DL	12.0 oz./sq. ft.	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		LIMITING CRITERIA: 2.5 to 1 Safety Factor						45 to 1 Deflection Limit Ratio (L/D)								
Panel Description: 7.2 x 1-1/2		Panel Strength = 30,000 psi						Flexural Modulus = 900,000 psi								
IsoTuf High - Strength		20 psf		30 psf			40 psf			50 psf			60 psf			
Generic: 455IFW	16.0 oz./sq. ft.	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'-6"	15'-6"	17'-4"	12'-8"	12'-8"	14'-2"	11'-0"	11'-0"	12'-3"	9'-10"	9'-10"	11'-0"	8'-11"	8'-11"	10'-0"
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"

Generic: 455IFW

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 = 30,000 psi						Flexural Modulus = 900,000 psi								
IsoTuf High - Strength		20 psf		30 psf			40 psf			50 psf			60 psf			
Generic: 455IFW	16.0 oz./sq. ft.	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		LIMITING CRITERIA: 2.5 to 1 Safety Factor						45 to 1 Deflection Limit Ratio (L/D)								
Panel Description: 7.2 x 1-1/2		Panel Strength = 10,000 psi						Flexural Modulus = 450,000 psi								
Cooling Tower - Firerated		20 psf		30 psf			40 psf			50 psf			60 psf			
Generic: 455CTA	16.0 oz./sq. ft.	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		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 = 10,000 psi						Flexural Modulus = 450,000 psi								
Cooling Tower - Firerated		20 psf		30 psf			40 psf			50 psf			60 psf			
Generic: 455CTA	16.0 oz./sq. ft.	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"