



**YOUR
ROOFING
SOLUTION**

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SENGDEK®

YOUR ROOFING SOLUTION

**SENGDEK
HIGH
TENSILE
C-PURLIN**



SENGDEK HIGH TENSILE C-PURLIN

SENGDEK High Tensile C-Purlin is manufactured from quality galvanized steel. High tensile steel increases performance, efficiency and durability but light weight at the same time. **SENGDEK High Tensile C-Purlin** is produced by using Realzinc™ galvanized steel, which has > 97% zinc coating and is the most economical galvanized steel among coated steel products, and yet has good corrosion protection.

MATERIAL SPECIFICATION

Material	Hot Dip Galvanised Steel
Steel Grade	JIS G3302 / AS 1397
Tensile	High Tensile
Min Yield Strength (Mpa)	450
Min Tensile Strength	480
Zinc Coating	120g/m ² to 275g/m ²
Available Thickness (mm)	1.60, 2.00, 2.50

QUALITY ASSURANCE

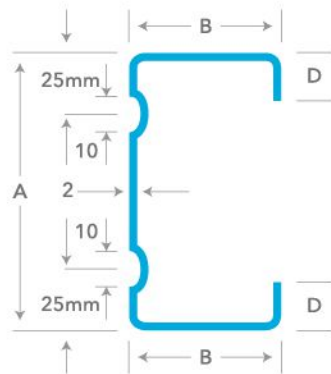
- QUALITY ASSURANCE, COMPETITIVE PRICE, ON TIME DELIVERY
- QUALITY PRODUCT WITH PROVEN SUPPLY RECORDS
- HIGH DEGREE OF ACCURACY AND CONSISTENCY IN DIMENSIONS
- DIFFERENT THICKNESS AVAILABILITY TO SUIT CUSTOMER'S NEEDS
- HIGH TENSILE STEEL , LOW WEIGHT
- PRE-PUNCHED HOLES AND CUSTOM CUT LENGTH
- GREATER STIFFNESS AND STRAIGHTER CLADDING LINES

TOLERANCES

SENGDEK High Tensile C-Purlin are produced within the following tolerances:

Length	: ± 5mm
Web (Dim. H)	: ± 3mm
Flange (Dim. B)	: ± 3mm
Hole centres	: ± 2mm
Thickness	: ± 0.18mm

TECHNICAL SPECIFICATIONS

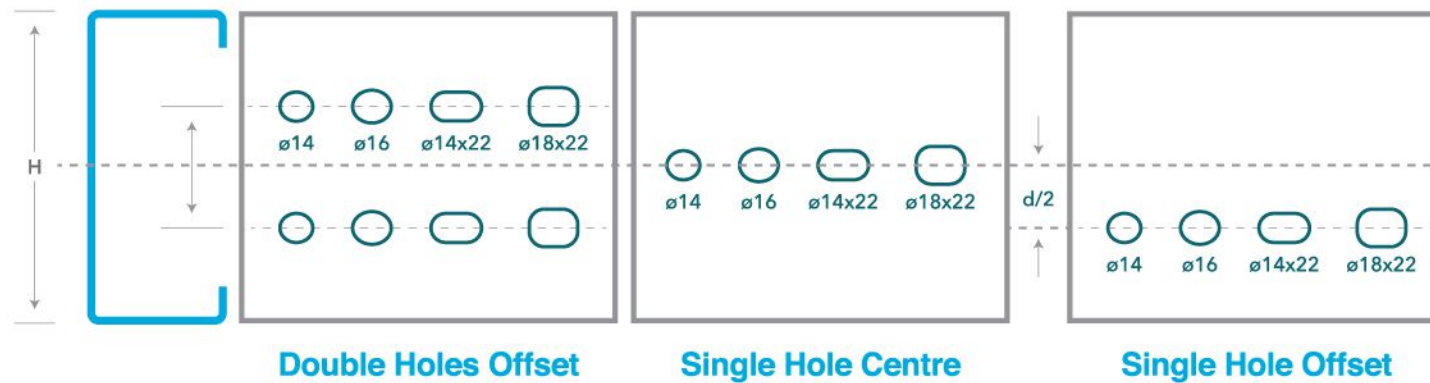


HEIGHT	CODE			A (DEPTH)	B	D
3"	SC07516	SC07520	SC07525	75	45	10
4"	SC10016	SC10020	SC10025	100	50	12
5"	SC12516	SC12520	SC12525	125	50	16
6"	SC15016	SC15020	SC15025	150	65	16
7"	SC17516	SC17520	SC17525	175	75	16
8"	SC20016	SC20020	SC20025	200	75	18
10"	SC25016	SC25020	SC25025	250	85	18
12"	SC30016	SC30020	SC30025	300	100	18

SIZE		THICKNESS		
		1.60 (mm)	2.00 (mm)	2.50 (mm)
3" X 1 6/8"	75MM	2.24 kg/m	2.79 kg/m	3.55 kg/m
4" X 2"	100MM	2.82 kg/m	3.47 kg/m	4.40 kg/m
5" X 2"	125MM	3.14 kg/m	3.87 kg/m	4.87 kg/m
6" X 2.5"	150MM	3.85 kg/m	4.75 kg/m	5.87 kg/m
7" X 3"	175MM	4.47 kg/m	5.54 kg/m	6.89 kg/m
8" X 3"	200MM	4.71 kg/m	5.90 kg/m	7.28 kg/m
10" X 3.5"	250MM	6.51 kg/m	6.91 kg/m	8.62 kg/m
12" X 4"	300MM	7.53 kg/m	8.17 kg/m	10.21 kg/m

PRE-PUNCHED HOLE ARRANGEMENTS AND OPTIONS

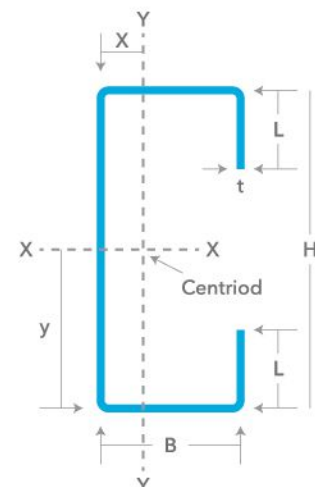
SENGDEK High Tensile C-Purlin can be customized with specified length. It can be supplied either with or without punch holes. Please refer to pre-punched hole options for any requirement.



HEIGHT	ø14 (mm)		ø16 (mm)		ø14 x 22 (mm)		ø18 x 22 (mm)	
H (mm)	d (mm)	d/2 (mm)	d (mm)	d/2 (mm)	d (mm)	d/2 (mm)	d (mm)	d/2 (mm)
100	50	25	50	25	50	25	50	25
125	50	25	50, 70	25, 35	50, 55, 60	25, 27.5	50	25
150	50, 80	25, 40	50, 70, 100	25, 35, 50	50, 55, 60	25, 27.5, 50	50	25
175	50, 80	25, 40	50, 70, 100	25, 35, 50	50, 55, 60	25, 27.5, 50	50	25
200	50, 80	25, 40	50, 70, 100	25, 35, 50	50, 55, 60	25, 27.5, 50	50	25
250	50, 80	25, 40	50, 70, 100	25, 35, 50	50, 55, 60	25, 27.5, 50	50	25
300	50, 80	25, 40	50, 70, 100	25, 35, 50	50, 55, 60	25, 27.5, 50	50	25

SPECIFICATIONS DRAWING*

							
75x45	100x50	125x50	150x65	175x75	200x75	250x85	300x100
1.6mm 2.0mm	1.6mm 2.0mm 2.5mm	1.6mm 2.0mm 2.5mm	1.6mm 2.0mm 2.5mm	1.6mm 2.0mm 2.5mm	1.6mm 2.0mm 2.5mm	1.6mm 2.0mm 2.5mm	1.6mm 2.0mm 2.5mm



SPECIFICATIONS AND SECTION PROPERTIES*

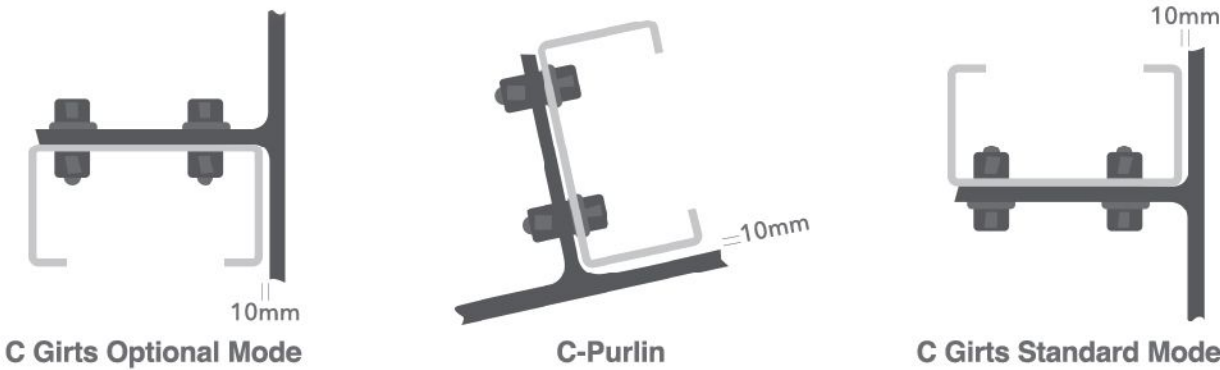
CODE	WED H (mm)	FLANGE B (mm)	THICKNESS T (mm)	LIP SIZE L (mm)	AREA (mm ²)	WEIGHT (kg/m)
SC07516	75	45	1.60	10	267	2.24
SC07520	75	45	2.00	10	331	2.79
SC10016	100	50	1.60	12	355	2.82
SC10020	100	50	2.00	12	441	3.47
SC10025	100	50	2.50	12	548	4.40
SC12516	125	50	1.60	12	394	3.14
SC12520	125	50	2.00	12	491	3.87
SC12525	125	50	2.50	12	610	4.87
SC15016	150	65	1.60	16	483	3.85
SC15020	150	65	2.00	16	601	4.75
SC15025	150	65	2.50	16	748	5.87
SC17516	175	75	1.60	16	555	4.47
SC17520	175	75	2.00	16	691	5.54
SC17525	175	75	2.50	16	860	6.89
SC20016	200	75	1.60	18	595	4.71
SC20020	200	75	2.00	18	741	5.90
SC20025	200	75	2.59	18	923	7.28
SC25016	250	85	1.60	18	675	6.51
SC25020	250	85	2.00	18	841	6.91
SC25025	250	85	2.50	18	1048	8.62
SC30016	300	100	1.60	18	841	7.53
SC30020	300	100	2.00	18	1048	8.17
SC30025	300	100	2.50	18	1305	10.21

CODE	X (mm)	Y (mm)	IXX 10 ⁶ (mm ⁴)	IYY 10 ⁶ (mm ⁴)	ZXX 10 ³ (mm ³)	ZYY 10 ³ (mm ³)	RXX (mm)	RYY (mm)
SC07516	13.2	37.5	0.231	0.050	6.160	2.294	29.935	13.636
SC07520	13.2	37.5	0.283	0.060	7.547	2.752	29.244	13.482
SC10016	17.6	50.0	0.572	0.128	11.440	3.951	40.160	19.000
SC10020	17.6	50.0	0.706	0.156	14.120	4.815	40.003	18.824
SC10025	17.6	50.0	0.868	0.190	17.360	5.864	39.810	18.631
SC12516	15.9	62.5	0.960	0.138	15.360	4.047	49.314	18.693
SC12520	15.9	62.5	1.187	0.169	18.992	4.956	49.153	18.534
SC12525	15.9	62.5	1.462	0.205	23.392	6.012	48.951	18.337
SC15016	20.1	75.0	1.737	0.275	23.160	6.125	59.958	23.872
SC15020	20.1	75.0	2.149	0.338	28.635	7.528	59.794	23.712
SC15025	20.1	75.0	2.654	0.413	35.387	9.219	59.590	23.513
SC17516	22.4	87.5	2.720	0.408	31.086	7.776	70.018	27.164
SC17520	22.4	87.5	3.372	0.504	38.537	9.528	69.851	27.002
SC17525	22.4	87.5	4.171	0.618	47.669	11.749	69.643	26.801
SC20016	20.9	100.0	3.702	0.427	37.020	7.893	78.885	26.785
SC20020	21.0	100.0	4.592	0.525	45.920	9.722	78.714	26.622
SC20025	21.0	100.0	5.685	0.644	56.850	11.926	78.500	26.419
SC25016	18.5	125.0	6.236	0.455	49.888	8.053	96.120	25.975
SC25020	18.6	125.0	7.742	0.560	61.936	9.929	95.939	25.811
SC25025	18.6	125.0	9.596	0.687	76.768	11.181	95.713	25.607
SC30016	24.9	150.0	11.526	0.998	76.840	13.289	117.074	34.445
SC30020	24.9	150.0	14.314	1.230	95.427	16.378	116.869	34.261
SC30025	24.9	150.0	17.746	1.511	118.307	20.147	116.613	34.032

The purlin load table is derived in accordance to BS5950 : Part5 : 1987 " Code of practice for Design of Cold Formed Section " with maximum roof pitch 30° and roofing sheet distributed load 6.55 kg/m²

SIZE	C-PURLIN SPACING (m)					
	0.9	1.2	1.5	1.8	2.1	2.4
75 x 45 x 1.6	4.0	3.7	3.4	3.2	3.1	2.9
75 x 45 x 2.0	4.3	3.9	3.7	3.5	3.3	3.1
100 x 50 x 1.6	5.4	5.0	4.6	4.4	4.2	4.0
100 x 50 x 2.0	5.8	5.3	4.9	4.7	4.4	4.3
100 x 50 x 2.5	6.1	5.6	5.3	5.0	4.7	4.5
125 x 50 x 1.6	6.4	5.9	5.5	5.2	4.9	4.7
125 x 50 x 2.0	6.8	6.3	5.9	5.5	5.3	5.1
125 x 50 x 2.5	7.3	6.7	6.2	5.9	5.6	5.4
150 x 65 x 1.6	7.8	7.1	6.7	6.3	6.0	5.7
150 x 65 x 2.0	8.3	7.6	7.1	6.7	6.4	6.1
150 x 65 x 2.5	8.6	8.1	7.6	7.2	6.8	6.6
175 x 75 x 1.6	9.0	8.2	7.7	7.3	6.9	6.6
175 x 75 x 2.0	9.5	8.8	8.3	7.8	7.4	7.1
175 x 75 x 2.5	10.1	9.3	8.7	8.3	7.9	7.6
200 x 75 x 1.6	9.9	9.1	8.5	8.0	7.7	7.4
200 x 75 x 2.0	10.5	9.7	9.1	8.6	8.2	7.9
200 x 75 x 2.5	11.2	10.3	9.7	9.2	8.8	8.4
250 x 85 x 1.6	11.7	10.8	10.1	9.5	9.1	8.7
250 x 85 x 2.0	12.4	11.5	10.7	10.2	9.7	9.3
250 x 85 x 2.5	13.1	12.2	11.4	10.8	10.4	10.0
300 x 100 x 1.6	14.2	13.1	12.3	11.6	11.1	10.7
300 x 100 x 2.0	15.0	13.9	13.1	12.4	11.9	11.4
300 x 100 x 2.5	15.9	14.8	13.9	13.2	12.6	12.1

C-PURLIN SIMPLY SUPPORTED CONNECTION DETAILS



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BUILD YOUR FUTURE WITH CSC



SENGDEK structural series are supplied by the local steel coil manufacturer, CSC. CSC was established and listed on the main market of Bursa Malaysia. It only supplies the best quality of steel coil to the market.

SENGDEK structural series are formed by Realzinc™ and Realzinc™ Enhance. These brands are named under CSC, providing the best quality galvanized steel. The concept of “ Real ” is originated from value of reality and practicality which closely aligned with CSC upright business philosophy, besides communicating the company’s management ways by “ making with real and achieving the real ”. It also highlights the company’s ambitious in providing steel products that meets the quality standard.

Realzinc™ is the most economical galvanized steel that provides good formability and corrosion resistance. Realzinc™ Enhance is the upgraded version of Realzinc™ with a layer of thin organic coating which provides an extra edge in decelerating oxidation and improves corrosion resistance. It is specially developed for steel roof truss system.

