

# C purlin

Our pre-punched purlins are quick to install and suitable for both insulated and uninsulated roofs and walls.

The thickness and height of the purlin selected depend on span length and loads. To optimise the design, use our [PurCalc](#) software.

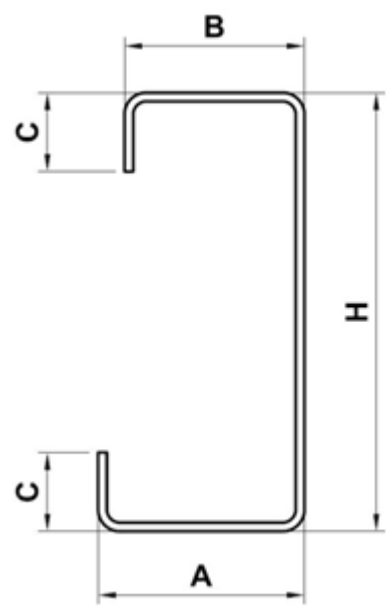
Applications:

- Industrial construction
- Hall and warehouse construction
- Extension construction and renovation
- Agricultural projects



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# Properties



Model name	C purlin
Height	100, 120, 150, 200, 250, 300 mm
Thickness	1.0 - 3.0 mm
Section type	C-sections
Minimum length	1600 mm
Maximum Length	18000 mm
Material	<p>Hot galvanized steel sheet. Steel quality S350GD+Z275 according to EN 10346.</p> <p>Applications in environments with corrosivity: C2 according to the EN ISO 12944-2.</p>
Tolerances	Dimensions and shape according to EN 1090-4, material thickness according to EN 10143

## Cross-section geometries

Type of purlin	Thickness (mm)	H (mm)	A (mm)	B (mm)	C (mm)	Weight (kg/m)
LP-C100	1	100	45	39	$\geq 15.50$	1.63
	1.2		45.4	39.4	$\geq 15.90$	1.96
	1.5		46	40	$\geq 16.50$	2.45
LP-C120	1	120	45	39	$\geq 16.00$	1.81
	1.2		45.4	39.4	$\geq 16.40$	2.17
	1.5		46	40	$\geq 17.00$	2.71
	2		47	41	$\geq 18.00$	3.61
LP-C150	1	150	45	39	$\geq 16.00$	2.04
	1.2		45.4	39.4	$\geq 16.40$	2.45
	1.5		46	40	$\geq 17.00$	3.06
	2		47	41	$\geq 18.00$	4.08
LP-C200	1.5	200	70	62	$\geq 24.00$	4.36
	2		71	63	$\geq 25.00$	5.81
	2.5		72	64	$\geq 26.00$	7.26
	3		73	65	$\geq 27.00$	8.71
LP-C250	1.5	250	70	62	$\geq 24.00$	4.92
	2		71	63	$\geq 25.00$	6.56
	2.5		72	64	$\geq 26.00$	8.2
	3		73	65	$\geq 27.00$	9.84
LP-C300	1.5	300	89	81	$\geq 22.50$	5.95
	2		90	82	$\geq 23.50$	7.93
	2.5		91	83	$\geq 24.50$	9.91
	3		92	84	$\geq 25.50$	11.89

## Design tools



### PurCalc® software for designing purlins

With the PurCalc® software, the user can design roof and wall purlins produced by Ruukki. The purlins are designed as continuous beams. The purlin type must be the same for the whole structure, but the thickness may vary. One of the purlin flanges is assumed to be supported with the profile sheet. The other flange may be either supported or unsupported. Basic loads such as uniform snow load and wind load can be easily given with a few parameters. Also, more complicated load types, such as snowdrift loads, can be given. The software calculates the necessary fasteners for the supporting structure as well.

[Go to PurCalc® software](#)



### Download BIM objects to your desktop

ProdLib brings Ruukki products as BIM models directly to your desktop in 3D form for design programs AutoCAD, Autodesk Revit, Archicad and Tekla Structures. Product libraries compile all necessary design models and detailed drawings in one place. Library updates are automatically notified, so as a user you can be sure that your product information is constantly up to date. ProdLib can also be used as a standalone desktop application.

[Go to BIM library](#)

## Ordering

Please provide the following information when ordering:

- Type of purlin
- Thickness
- Length
- Number.

In case of pre-punched purlins, please send us purlin drawings showing the location of the holes.



Round	22	-
Round	26	-
Round	60	-
Oval	12×24	90
Oval	14×24	90
Oval	16×35	90
Oval	18×31.7	90
Oval	18×35	90
Oval	20×35	90
Rectangular	5×25	90

## Technical documents

Here you can find all technical documents related to Ruukki's light weight purlins. Documents are organised by document type. Click to enter document library.

Technical manuals
>

Accessory documents
>

Detail drawings
>

## Certificates and approvals

Here you can find all certificates and approvals related to Ruukki's light weight purlins. Documents are organised by document type. Click to enter document library.

Declaration of performance
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