

ISMC Weight Chart | Aesteiron

Type	Weight per meter (kg)	Depth of Section(mm)	Sectional area(cm²)	Thickness of Flange (mm)	Width of Flange (mm)	Thickness of web(mm)
ISMC 75	6.8	75	8.67	7.3	40	4.4
ISMC 100	9.2	100	11.70	7.5	50	4.7
ISMC 125	12.7	125	16.19	8.1	65	5.0
ISMC 150	16.4	150	20.88	9.0	75	5.4
ISMC 175	19.1	175	24.38	10.2	75	5.7
ISMC 200	22.1	200	28.21	11.4	75	6.1
ISMC 225	25.9	225	33.01	12.4	80	6.4
ISMC 250	30.4	250	38.67	14.1	80	7.1
ISMC 300	38.8	300	45.64	13.6	90	7.6

ISMC 350	42.1	350	53.66	13.5	100	8.1
ISMC 400	49.4	400	62.93	15.3	100	8.6

What is ISMC?

ISMC refers to Indian Standard Medium Channel. They are C-shaped steel channels employed primarily in construction and structural use. They are strong and can support much weight. ISMC channels are used in buildings, bridges, industrial frameworks, and even automobile structures.

Why is the ISMC Weight Chart Important?

[ISMC weight chart](#) assists you in determining the weight of a steel channel depending on its size. Planning is crucial when it comes to a project because understanding the weight aids you in computing total load, cost of material, and transportation requirements. It's an easy chart but extremely helpful for engineers, fabricators, contractors, and even students.

What Does the Chart Include?

An ISMC weight chart typically contains the following information:

Designation (such as ISMC 75, ISMC 100, ISMC 150, etc.)

Sectional dimensions (e.g., width, depth, and thickness)

Weight per meter in kg

Cross-sectional area

For instance, ISMC 100 has a weight of approximately 9.6 kg per meter, and ISMC 150 has approximately 17.7 kg per meter. These values assist professionals in selecting the appropriate size for their structure based on the strength and load required.

How to Use the Chart

Assume you have to use 20 meters of ISMC 100 in your project. From the chart, you discover that the weight is 9.6 kg per meter. Therefore, the total weight would be:

$$9.6 \text{ kg} \times 20 \text{ meters} = 192 \text{ kg}$$

This assists in planning the amount of material to purchase, how good the support must be, and how to carry it safely to the site.

Where is ISMC Used?

ISMC sections find application in:

- Framing and supporting buildings
- Truck and railway coach chassis
- Roof trusses and platform frameworks
- Machinery and equipment foundation

Due to their C-shape, they are good at bending resistance and can support pressure from one direction, making them suitable for structural support.

Conclusion

An ISMC weight chart may seem like a simple tool, but it's extremely helpful when working with steel channels. It allows for better planning, accurate estimation, and safer design.

Always make sure to use an up-to-date chart from a trusted source, and when in doubt, consult with an experienced engineer or supplier.

Visit us to know more:- <https://www.aesteiron.com/ismc-weight-chart.html>

