#### Steel Knowledge

# Types of Steel Profiles (Hollow Sections/Tubes): A Comprehensive Guide by Sadr Steels Introduction

Published: 2 November 2025 Generated from sadrsteels.com

# Types of Steel Profiles (Hollow Sections & Tubes): Your No-Nonsense Guide From Sadr Steels

Alright, let's cut through the jargon. If you've ever wondered what the difference is between a rectangular hollow section and a circular steel tube, or why people even care about these shapes when building stuff, you're in the right place.

I'm Mohammad from Sadr Steels. Been in the steel game for a while, and today, I want to walk you through what these hollow steel sections are all about — no textbook talk, just real-world info.

# Why Should You Care About Steel Profiles?

Let me put it this way: Imagine you're building a warehouse, a skyscraper, or even setting up an industrial greenhouse. Steel profiles are the bones of that structure. Get them wrong, and things can fall apart. Get them right, and you've got durability, safety, and lower repair costs.

# A Quick Real-World Example:

We recently supplied steel tubes for a client building highway sign structures in the Middle East. Those structures must withstand extreme winds and intense heat. Hollow sections were the only smart choice.

# What Are Hollow Steel Sections (HSS)?

In simple terms, Hollow Steel Sections (HSS) are steel tubes shaped in different forms like rectangles, squares, circles, or ovals. Engineers love them because they're strong but don't weigh as much as solid steel.

## Types of Hollow Steel Sections (With Real Applications)

Let's break them down in plain English, with examples from real projects.

#### 1. Rectangular Hollow Sections (RHS)

My Take:

If I had to pick one all-rounder, RHS would be it. Easy to stack, ship, and cut. We used them in a multi-level parking structure in Tehran last year.



# 2. Square Hollow Sections (SHS)

Real Talk:

A client in Dubai chose SHS for modern railings in a luxury hotel project. Looks sleek and handles foot traffic like a champ.

# 3. Circular Hollow Sections (CHS)

#### Story Time:

We shipped CHS to a marine project in Oman. Saltwater? No problem. CHS held up with anti-corrosion coatings.

# 4. Elliptical & Oval Hollow Sections

Fun Fact:

Not as common, but clients love the unique vibe. Think premium office buildings or designer chairs.



#### 5. Galvanized Steel Tubes

My Honest Opinion:

If it's going outside, galvanized is the way to go. One less thing to worry about.

# **What Makes Hollow Sections Awesome?**



#### How We Make Steel Profiles at Sadr Steels

Wanna know how the magic happens? Here's the real-world workflow:

# Why Trust Sadr Steels?

# Real Uses for Steel Profiles (Not Just Theory)

# Wrap-Up: Why Steel Profiles Aren't Boring

Here's the deal: Steel profiles are everywhere. Next time you're driving under a highway sign or walking past a modern office building, there's a solid chance those structures are standing tall because of RHS, SHS, or CHS from a company like Sadr Steels.

#### Got Questions or Need a Quote?

Reach out to us at Sadr Steels. Whether it's bulk orders or custom shapes, we're here to help. Drop a message, give us a call, or hit us up on social.

# **FAQs: Quickfire Answers**

Q1: What's the difference between RHS, SHS, and CHS?RHS = Rectangular. SHS = Square. CHS = Circular. Each has its job, from load-bearing to airflow efficiency.

Q2: Are galvanized tubes better for outdoor stuff? Yup. Galvanized steel holds up against rain, salt, and sun.

Q3: Can Sadr Steels make custom sizes? For sure. Just tell us what you need, and we'll handle it.