

# BEAM MOULD

## BE 81

A beam mould (often spelled "beam mold" in American English) is a specialized tool used in concrete testing to create standardized beam-shaped specimens. These specimens are essential for evaluating the flexural strength (bending resistance) of concrete, which helps assess its durability and performance in structural applications like beams, slabs, and bridges.

### KEY USES

- **Flexural Strength Testing:** Beams are tested under center-point or third-point loading to measure how much load the concrete can withstand before cracking.
- **Compliance with Standards:** Moulds are designed to meet ASTM (C78, C31) and AASHTO specifications for accurate, repeatable results.
- **Applications:** Common in construction labs, quality control for ready-mix concrete, and research on cement mixtures.

### TYPES OF BEAM MOULDS

Beam moulds come in various materials, sizes, and designs.

Model	Type	Material	Common Sizes	Features
BE 81-01	Steel Moulds	Heavy-gauge steel	150×150×500 MM, 150×150×550 MM, 150×150×700 MM	Hinged or hinge-free; disassembles for easy specimen removal; machined for precision
BE 81-02	Plastic Moulds	Engineered ABS plastic	100×100×400 MM, 150×150×500 MM	Thumb screws for tool-free assembly; lightweight (under 10 lbs); interlocking joints
BE 81-03	Lightweight Steel	Stamped steel	150×150×550 MM	Collapsible, hinge-free design

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