Steel Beam Moulds

LT-C0018 / C0019 / C0020 / C0021 | Four size options

Rigid steel body • Removable components • Prismatic specimens



100 / 150 mm

SQUARE SPECIMEN SECTION

400-750 mm

SPECIMEN LENGTH

EN 12390-1 • Laboratory preparation of concrete beam specimens

Photographs and Components

Open filling area, steel side plates, base and connections

Steel beam moulds prepare prismatic specimens for concrete flexural testing. The rigid body helps preserve geometry during filling and compaction. Removable components simplify demoulding and provide access for cleaning the internal surfaces.

OPEN FILLING AREA

Top access allows concrete placement and finishing of the specimen surface.

SIDE PLATES

Rigid steel components define the beam section and straight side surfaces.



END CONNECTIONS

Connections hold the components together during casting and are released before demoulding.

BASE AND HINGES

The base and opening side components simplify removal of the specimen.



Internal filling area and steel side plates

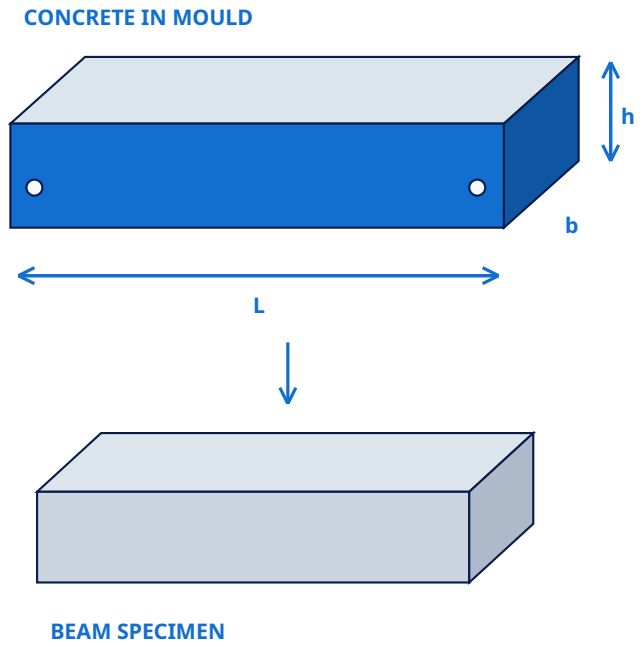


End connection, base and hinge detail

Operating Principle and Specimen Preparation

Assemble • Fill and compact • Finish the surface • Cure and demould

FROM MOULD TO PRISMATIC SPECIMEN



MOULD AND SPECIMEN • SCHEMATIC

Prepare the Mould

Clean internal surfaces, assemble the components and check connections. Apply a suitable release agent.

Fill and Compact

Place and compact concrete according to the chosen method. Strike off excess and finish the top surface.

Cure and Demould

After initial curing, release the connections. Remove the specimen carefully and continue curing as required.

Internal dimensions define the specimen section and length. Choose the specimen size for the test arrangement; check mould joints and internal surfaces before each casting. Proper concrete placement and compaction support specimen integrity.

Size and Model Selection

100 × 100 mm section:
LT-C0018: 400 mm length
LT-C0019: 500 mm length

150 × 150 mm section:
LT-C0020: 600 mm length
LT-C0021: 750 mm length

Internal dimensions define the specimen; overall dimensions define the mould footprint.

Preparation and Test Methods

EN 12390-1: specimen and mould geometry.
EN 12390-2: filling, compaction and curing.
EN 12390-5: concrete flexural strength testing.

ASTM C192/C192M covers laboratory specimen preparation; ASTM C78/C78M covers beam flexural testing using third-point loading.

LT-C0018 / C0019 / C0020 / C0021

Specifications and Model Selection

Four steel moulds • Internal and overall dimensions, and weight

Product Code	Internal Size (cm)	Overall Size (cm)	Weight (kg)
LT-C0018	10 × 10 × 40	17 × 51 × 15	18.5
LT-C0019	10 × 10 × 50	17 × 60 × 16	20.5
LT-C0020	15 × 15 × 60	22 × 70 × 22	38.5
LT-C0021	15 × 15 × 75	22 × 85 × 22	40

Common Feature	Description
Body	Rigid steel construction
Specimen Geometry	Prismatic concrete beam
Side Components	Removable / opening plates
Base Arrangement	Lockable base plate
Internal Surface	Smooth surfaces and defined edges
Geometry Standard	EN 12390-1

Specimen Size and Test Arrangement

Select the mould for the required specimen section and length. Follow the relevant procedure for specimen preparation and curing; set the flexural test support span according to the chosen test arrangement.

Specimen Preparation and Use Workflow

01
Clean and Assemble
Check internal surfaces and connections.

02
Fill and Compact
Place concrete as required by the method.

03
Finish the Surface
Strike off the top and apply initial curing.

04
Demould and Cure
Release connections; continue curing.

Product Page | liyatest.com.tr/en/urun/steel-beam-mould/