

Basic Comparison Extruder/Slipformer

Comparison item	Extruder	Slipformer
Cross section	Hollow-core slab	Hollow core slab, solid slab, T-, U-, I and square beam
Slab height	150 - 500 mm	100 - 400 mm*
Slab width	600, 1200, 2400 mm	600, 1200, 2400 mm
Casting speed (for 1200 mm width slab)	0,8 - 2,3 m/min	0,9 - 2,5 m/min
Compaction of concrete	Excellent all around	Good all around
Outlook and accuracy of slab	Very good and accurate	Good
Tendency for strand slippage	Very seldom	Seldom
Adjustments during casting	No need	Slight follow up
Demand for concrete quality	Not sensitive	Sensitive if good quality required
Investment cost	Depending on slab cross section	Depending on cross section (best solution when different products needed)
Running costs	Moderate	Moderate
Maintenance costs	Low	Low
Man power during casting	No need	Follow up operator needed
Consumption of cement	Low	Moderate
Consumption of energy	Moderate	Low

(*) 200 mm for solid slab

Extruder

ELEMATIC extruders are superb machines used for producing prestressed hollow-core slabs on long beds using extrusion method. A great variety of cross-sections is available for various applications.

E9 - the latest generation of ELEMATIC extruders - comprises of an E9 Power Unit and an exchangeable Nozzle Unit. Nozzle Units for slabs with 8 to 4 voids are available



Extruder E9.

Characteristics

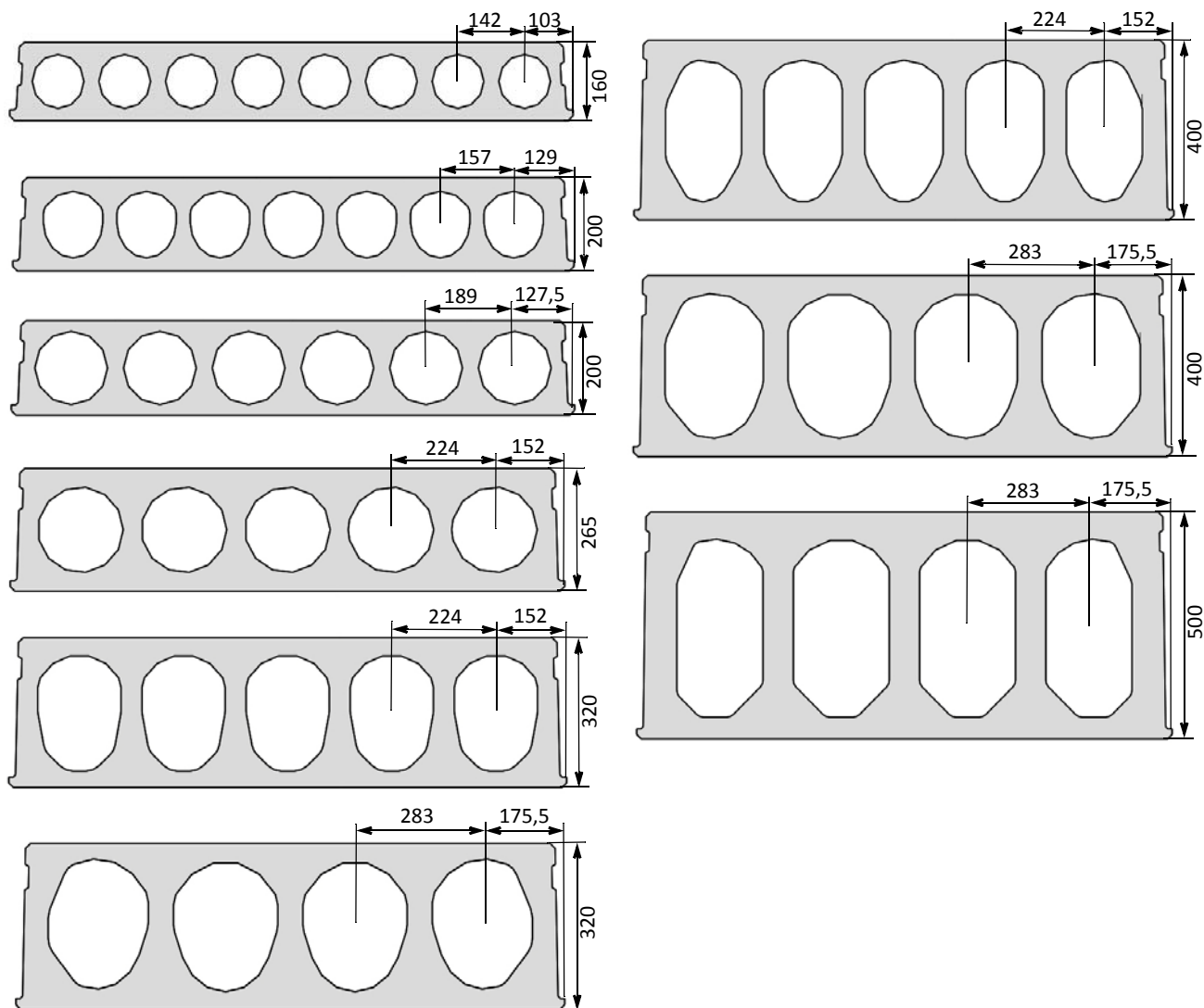
Extruded hollow-core slabs

Profile	h (mm)	b (mm)	Weight kg/m ²	Joint filling(*) l/m ² / kg
HC-8/160	160	1196	220	4,5 / 10,5
HC-7/200	200	1196	265	5,0 / 12,0
HC-6/200	200	1196	240	5,0 / 12,0
HC-5/265	265	1196	350	7,0 / 17,0
HC-5/320	320	1196	375	8,0 / 19,0
HC-4/320	320	1196	390	8,0 / 19,0
HC-5/400	400	1196	475	10,5 / 25,0
HC-4/400	400	1196	455	10,5 / 25,0
HC-4/500	500	1196	600	12,5 / 30,5

(*) quantity of grout needed to fill the longitudinal joints of a floor of a given surface area



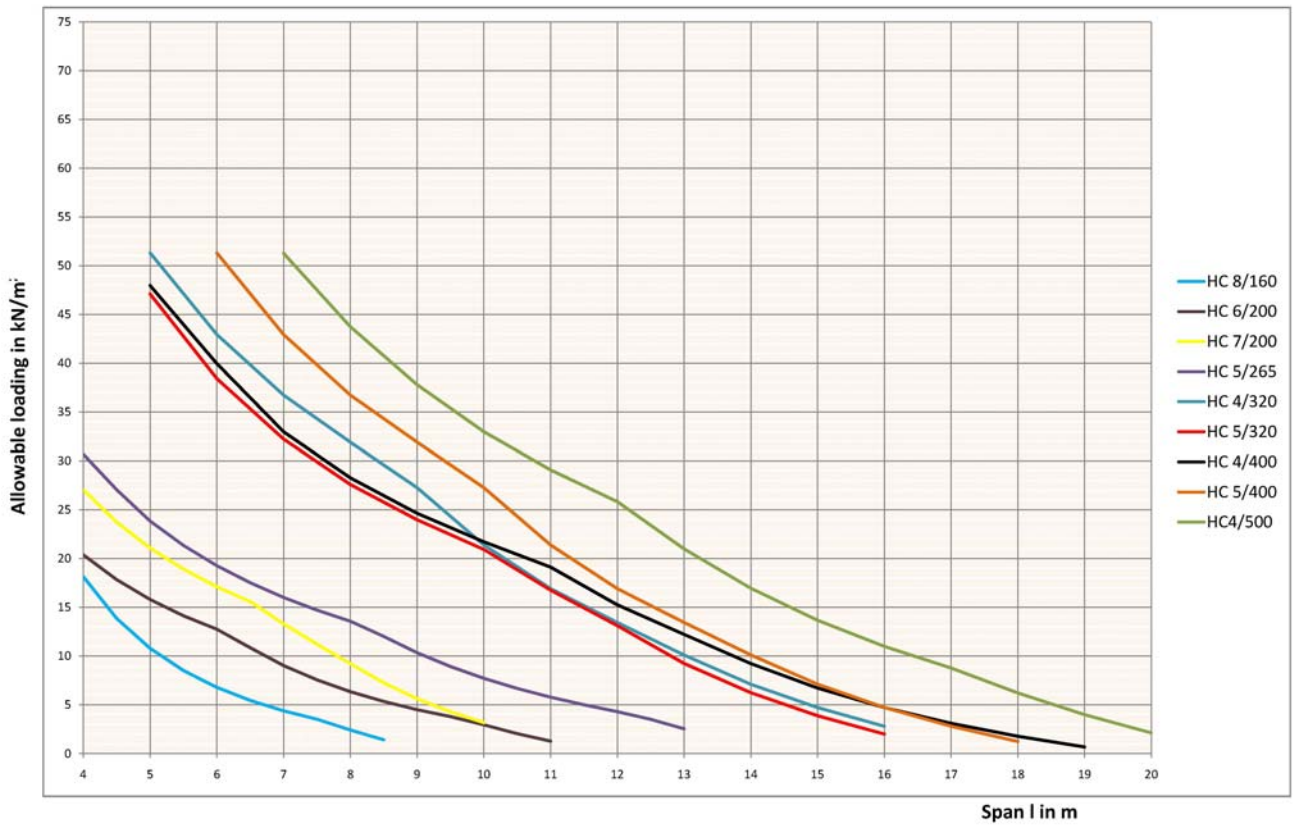
Extruded hollow-core slab profiles



Performance curves of hollow-core slabs

The curves give the load-bearing capacity with a limitation of the deflection under variable loading to 1/800 of the span.

Extruded hollow-core slabs



Slipformer

Slipformer EF8000 from Elematic is ideal for the manufacture of many different kinds of prestressed products from hollow-core slabs and solid floor planks to ribbed slabs, beams and even vineyard posts. This slipformer is ideal in cases when there is a need for especially thin products or when there is a need to quickly change product specifications or change to new products. Other ELEMATIC slipformer benefits include fewer parts and less need for maintenance.



Slipformer EF 8000

Characteristics

Slipformed hollow-core slabs

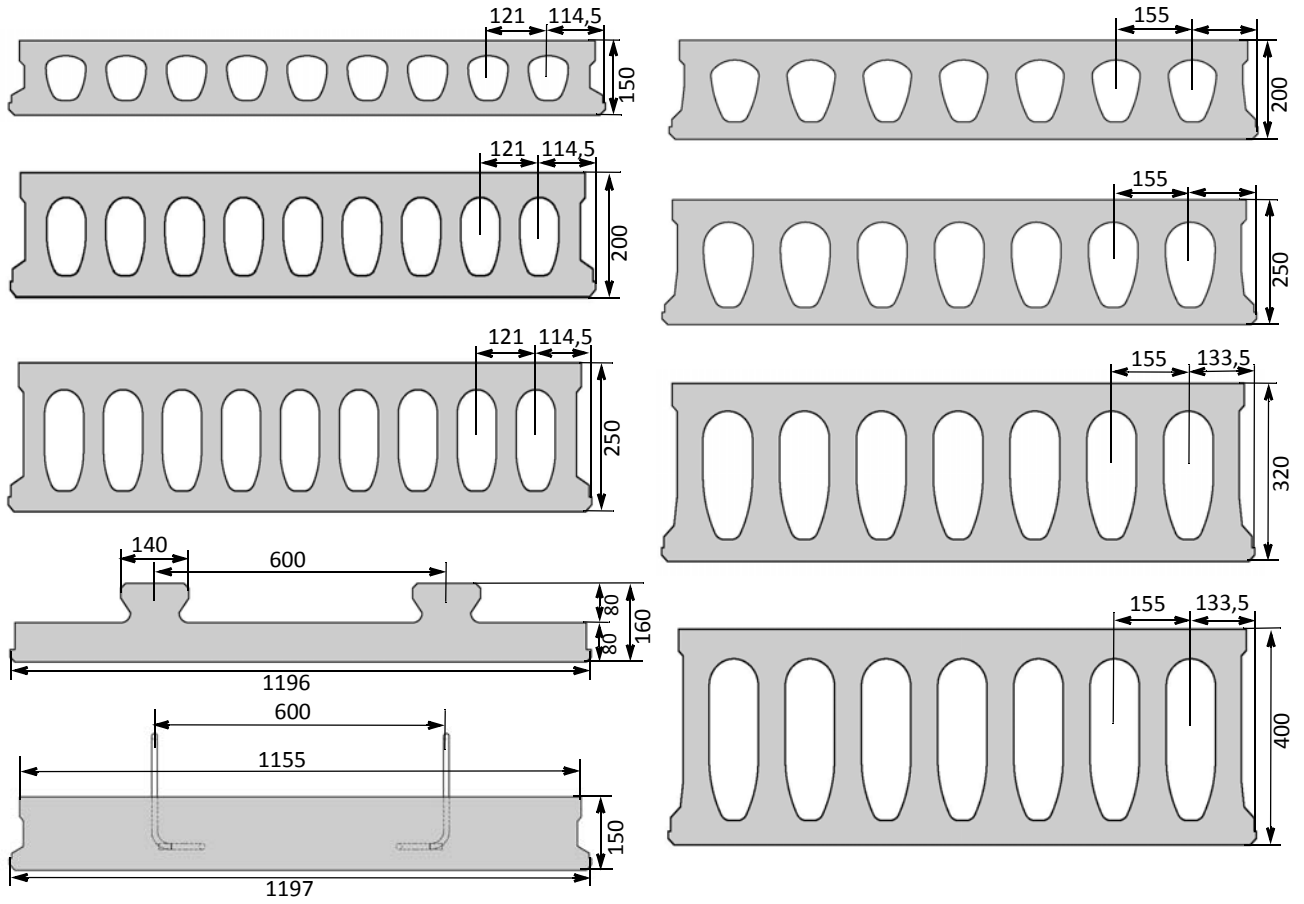
Profile	h (mm)	b (mm)	Weight kg/m ²	Joint filling (*) l/m ² / kg
HC-9/150	150	1196	240	4,7 / 11,4
HC-9/200	200	1196	305	7,1 / 17,0
HC-9/250	250	1196	355	9,7 / 23,2
Ribbed slab	160	1196	228	0,9/2,2
Half slab	150	1197	347	4,8/11,4
HC-7/200	200	1196	327	6,9/16,5
HC-7/250	250	1196	381	9,4/22,7
HC-7/320	320	1196	456	12,9 / 30,9
HC-7/400	400	1196	540	16,8 / 40,2

(*) quantity of grout needed to fill the longitudinal joints of a floor of a given surface area



Slipformer hollow-core slabs casting width is 1.2 m

Slipformed hollow-core slab profiles



Performance curves of hollow-core slabs

The curves give the load-bearing capacity with a limitation of the deflection under variable loading to 1/800 of the span.

Slipformed hollow-core slabs:

