

Non-magnetic structural application

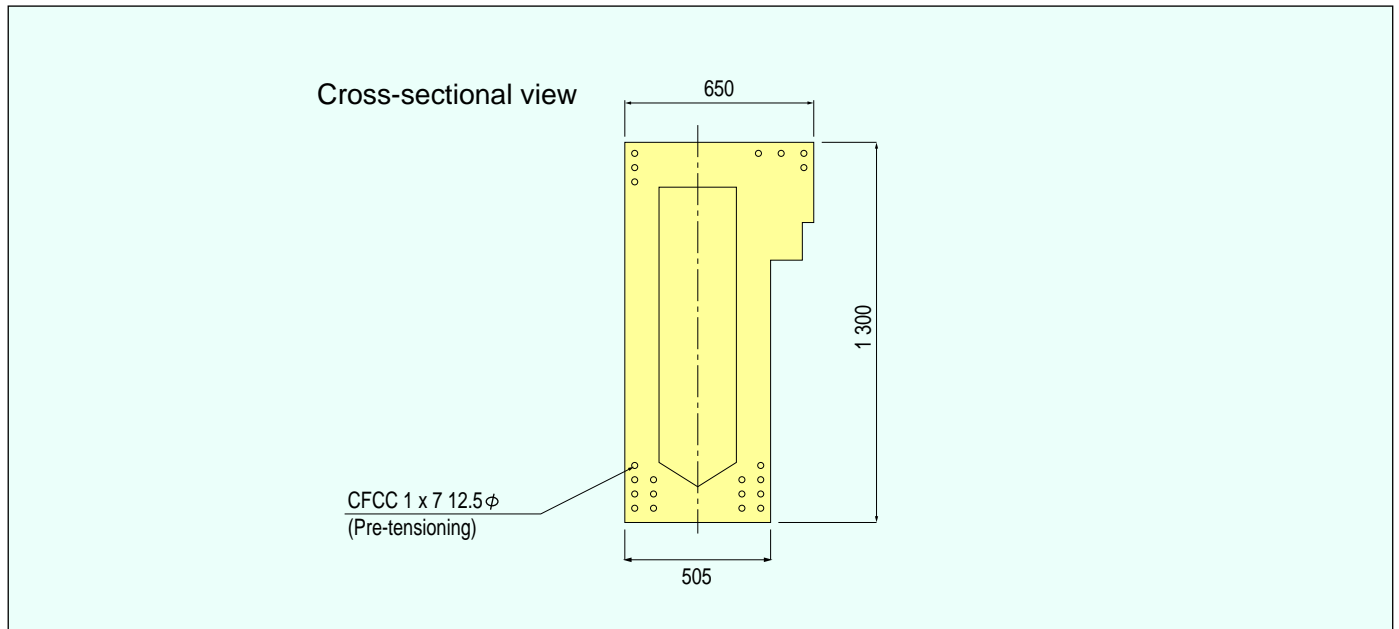
Tendons of the guideway for Yamanashi Maglev Test Line

Non-magnetic CFCC materials were used in the guide beams and part of the protruding portions of the Yamanashi Maglev Test Line (18.4 km) because they will not induce a current that will drain power from the system. Trade-off studies have been conducted on magnetic properties of CFCC and conventional steel materials.

Client	Railway Technical Research Institute, Japan Railway Construction Corp.
Location	Yamanashi prefecture
Dimension	Beam (length: 12.58 m, height: 1.3 m, width: 0.65/0.505 m) Used for 8 beams
Material	CFCC 1 x 7 ϕ 12.5 CFCC U ϕ 4.2
Application	Pre-tensioning (19 per 1 beam) Spiral rod
Completed	May 1996



Drawing



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