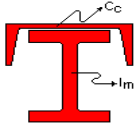
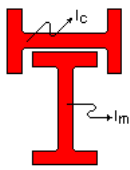
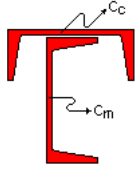
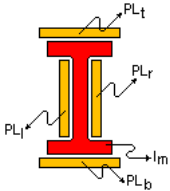
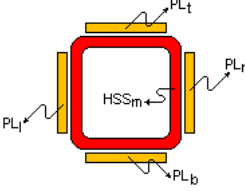
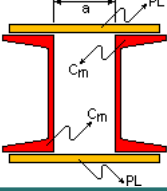
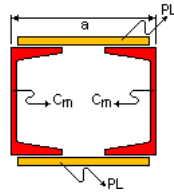


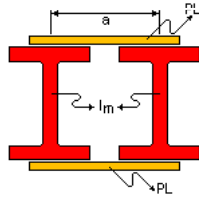
## BUILT UP SECTIONS IN SAFI

The program allows defining built-up sections whose properties are calculated by the means of a finite element model. The supported shapes are the following:

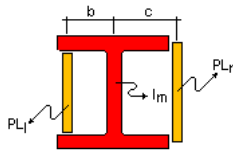
	<p>Crane beam made of an I shape profile and a reinforcing channel.</p>
	<p>Crane beam made of an I shape profile and a reinforcing I beam.</p>
	<p>Beam made of a channel and a reinforcing channel.</p>
	<p>I profile reinforced by plates on the flanges and/or the web. The plates <math>PL_t</math>, <math>PL_b</math>, <math>PL_l</math>, <math>PL_r</math> are optional.</p>
	<p>Tube with plate reinforcements on one or more sides. The plates <math>PL_t</math>, <math>PL_b</math>, <math>PL_l</math>, <math>PL_r</math> are optional.</p>
	<p>Box made of two channels back to back attached by plates on their flanges. The plates are optional when the spacing between the channels is null.</p>



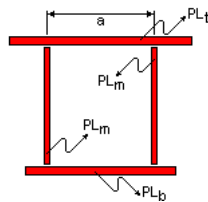
Box made of two channel face to face attached by plates on their flanges. The plates are optional when the spacing between the channels is such that the tips of the flanges are in contact.



Box made of two I profiles face to face attached by plates on their flanges. The plates are optional when the spacing between the channels is such that the tips of the flanges are in contact.



Box made of an I profile closed by plates welded between the flanges or welded at the edges of the flanges. The plates  $PL_t$ ,  $PL_b$ , are optional.



Box made of four welded plates.

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