

Technical Note

Title: Pinning members
Date: 09/09/2004
Versions: 2001.11 +
Program: MasterBeam All Beam Designers

The pinning of all members is controlled by the switches on the columns as follows.

For the Lower Column the full description of **20/P/30** for the type means

- 20** is the left beam degree of fixity at column (0=pin)
- P** is the lower node of the Column P/F pin fixed
- 30** is the right beams degree of fixity at column (0=pin)

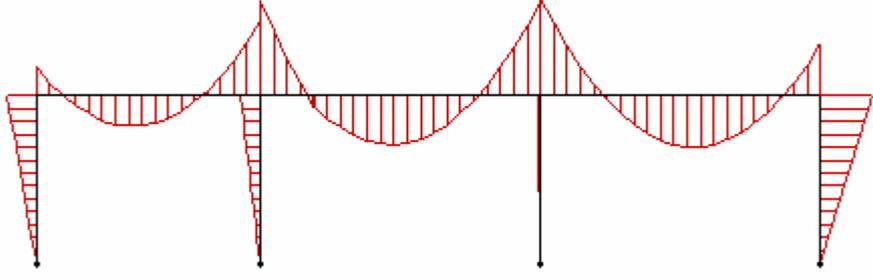
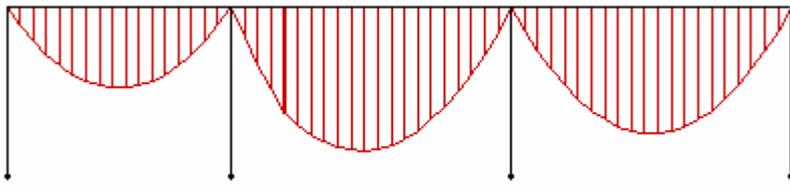
Examples

	Left Beam	Column Base	Right Beam
P	Fixed	Pinned	Fixed
0/F/0	Pinned	Fixed	Pinned
0/P/0 (see notes)	Pinned	Pinned	Pinned
20/F/30	20% fixity	Fixed	30% fixity
100/P/100 = P	Fixed	Pinned	Fixed
20	20% fixity	As previous base	20% fixity

Notes:

1. **0/P/0** should not be used on all supports as it may give an unstable structure with weird results. As this is in essence a Beam designer and **0/F/0** will give you the same result but with stability.
2. Moment redistribution is best performed inside the concrete design module as this gives greater control.

Examples

For	Input
	P
	0/F/0

Upper Columns

The upper Column, if present, only has **P** for pinned and **F** for fixed at the remote end.

Knife-Edge Beams

Special conditions for knife-edge beams ie no columns

