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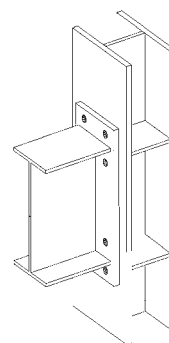
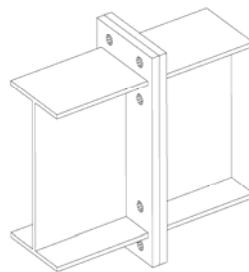
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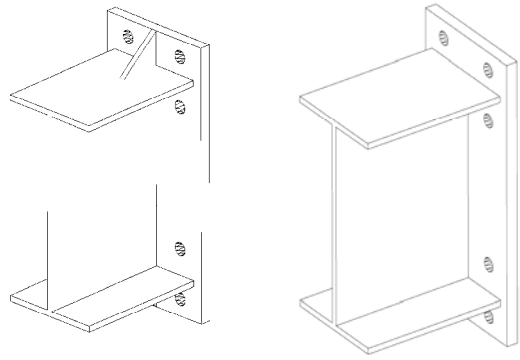
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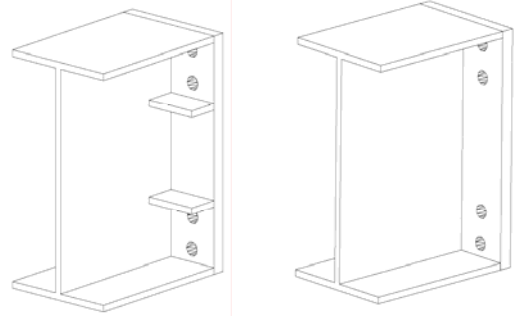
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ANSYS



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ABAQUS

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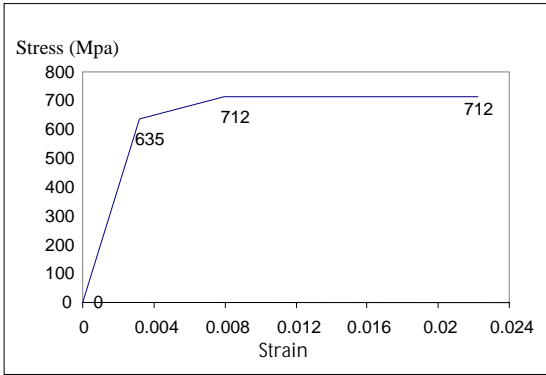
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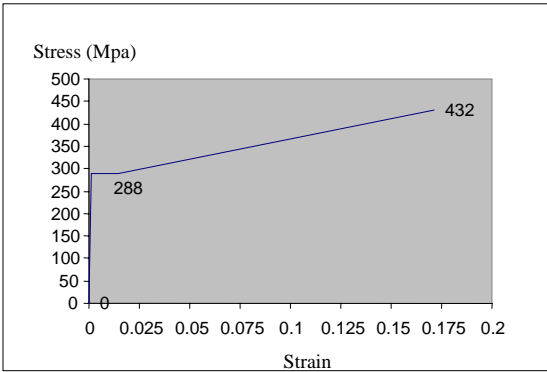
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ABAQUS

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(ct1b6
(ct1a1)



(C3D8I)

C3D8I

ASTM A36

ASTM A325

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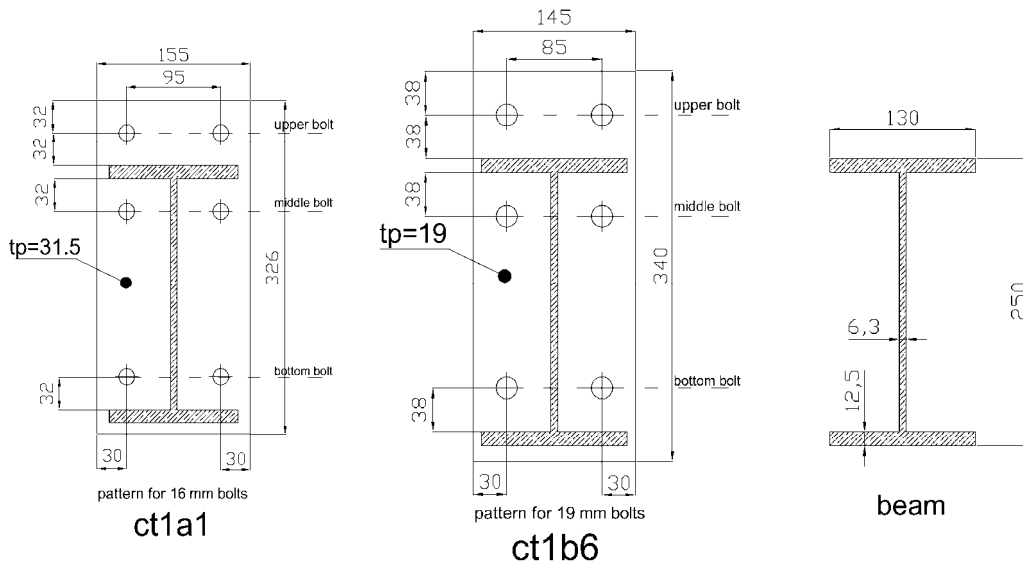
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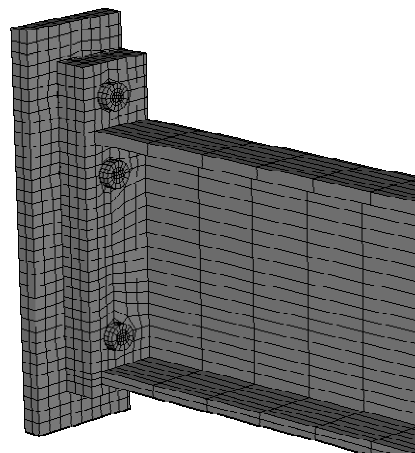
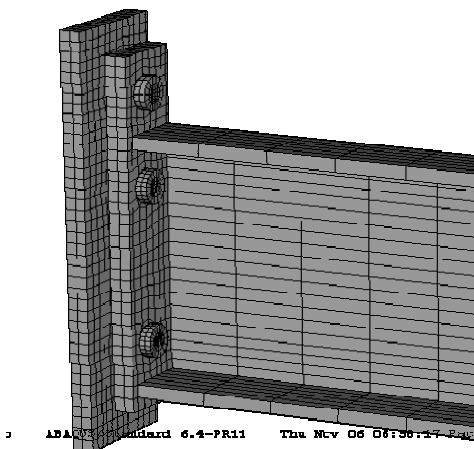


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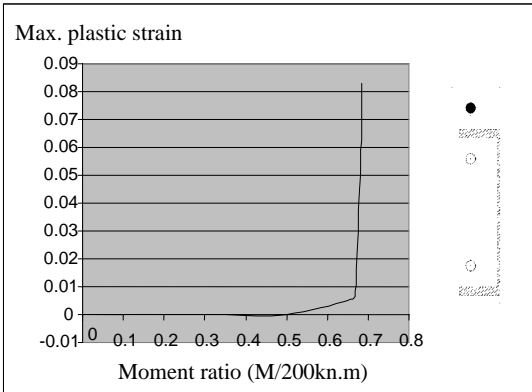
. [] ct1b6 ct1a1 :

. [] ct1b6 ct1a1 :

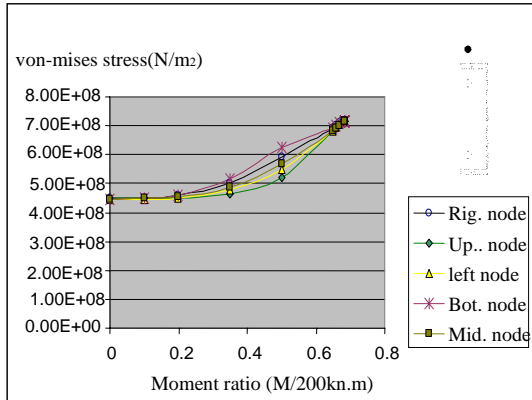
Mpl (Kn.m)	Mnp (Kn.m)	Ft (MPa)	dbolt (mm)	<u>bp (mm)</u>	tp (mm)	Fyp (MPa)	
/	/	/			/		ct1a1
/	/	/					ct1b6



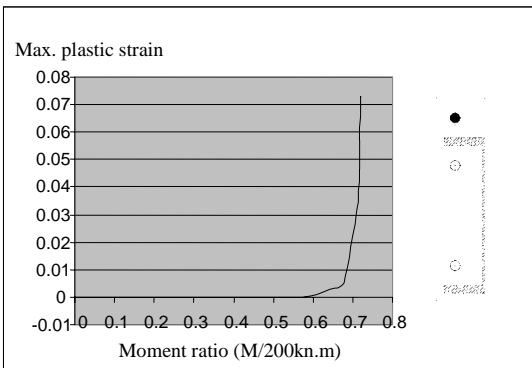
. () ct1b6 () ct1a1 :



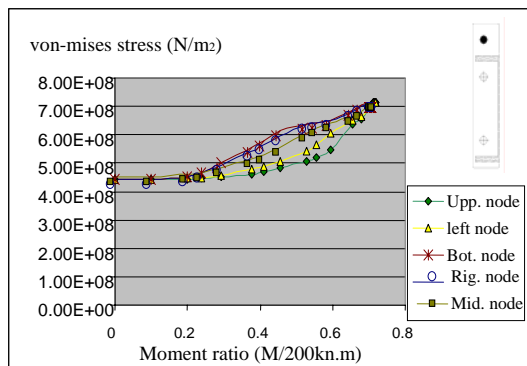
ct1a1



ct1a1



ct1b6



ct1b6

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ct1a1 . ct1b6 ct1a1

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() ct1b6

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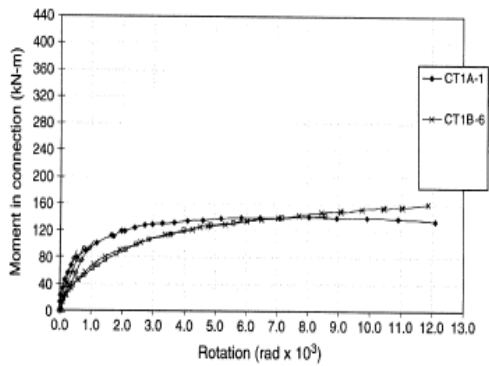
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ct1b6

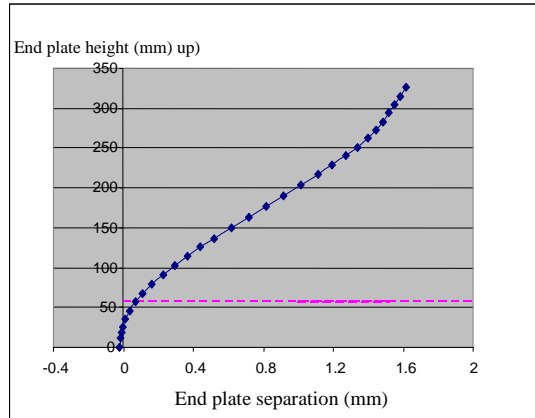
ct1a1

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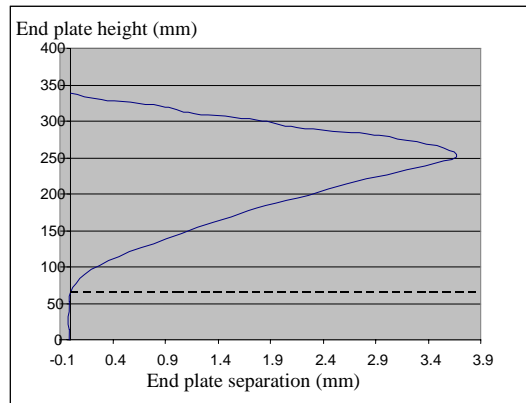
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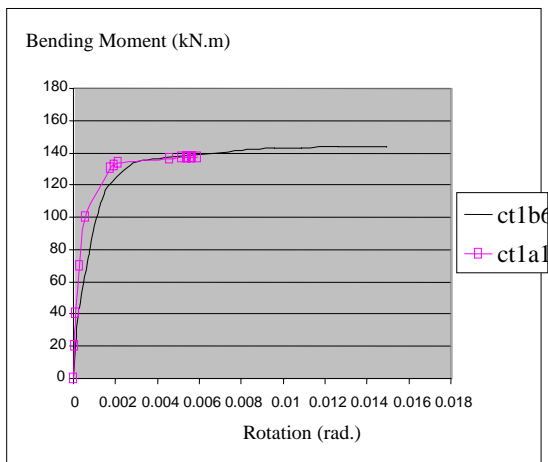


ct1a1



ct1b6

	Mu (Kn.m)	()		
ct1a1	/	/	/	/
ct1b6		/	/	/



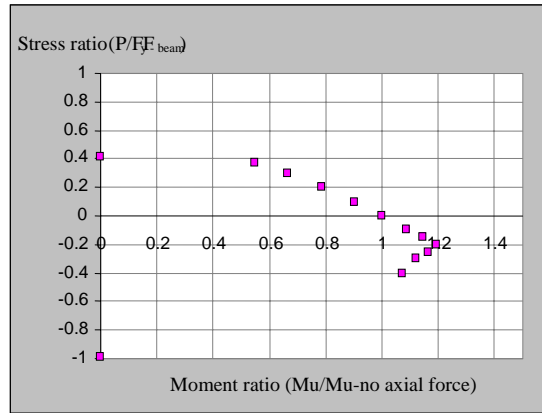
ct1b6 ct1a1

F_{y-beam}

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() ()

() ()

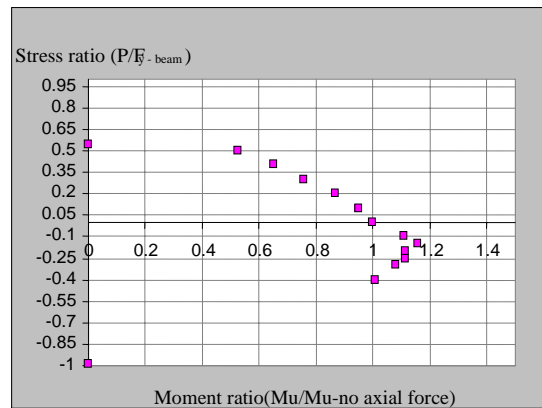


ct1b6

F_{y-beam}

ct1a1

ct1a1



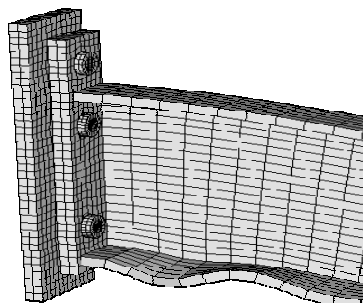
ct1b6

P= (MPa)

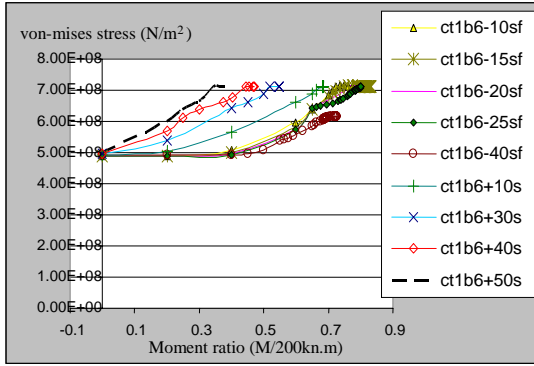
(P)

(F_{y-beam})

(M=0)



ct1b6



ct1b6

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() ()

sf

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s

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/ F_{y-beam} / F_{y-beam} / F_{y-beam}

/ F_{y-beam}

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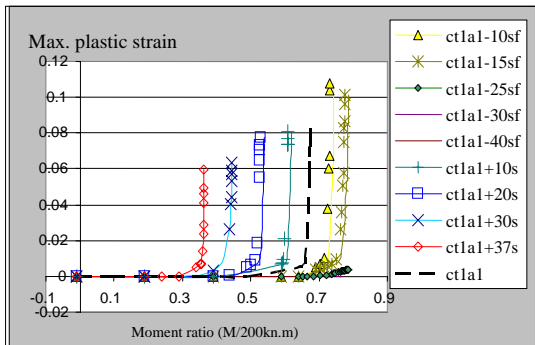
/ F_{y-beam} / F_{y-beam}

/ F_{y-beam} / F_{y-beam}

/ F_{y-beam}

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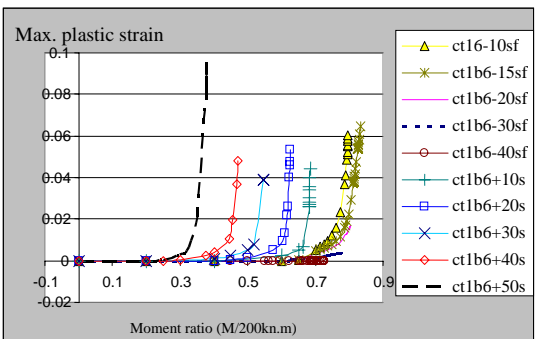
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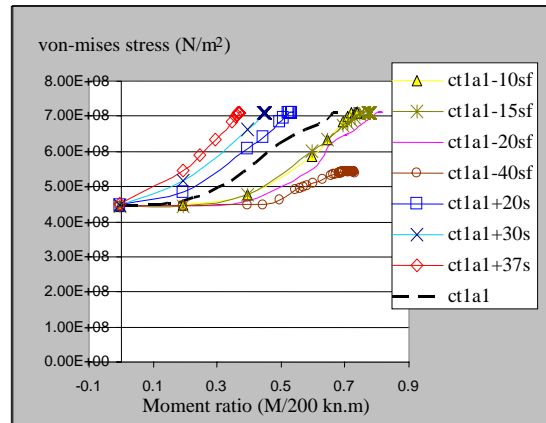
ct1a1

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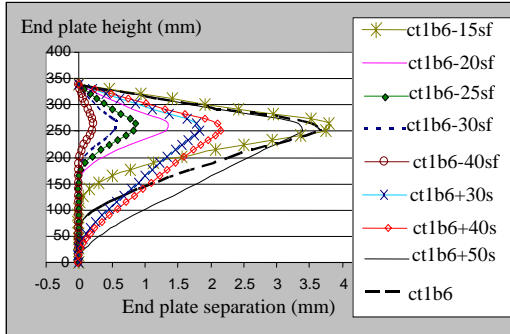


ct1b6



ct1a1

ct1b6 / $F_{y\text{-beam}}$
 / $F_{y\text{-beam}}$

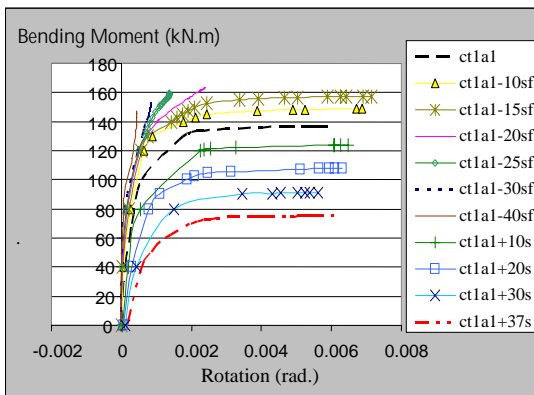


.ct1b6

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ct1a1

/ $F_{y\text{-beam}}$
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.ct1a1

/ $F_{y\text{-beam}}$ / $F_{y\text{-beam}}$

ct1a1

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 / $F_{y\text{-beam}}$

ct1a1

/ $F_{y\text{-beam}}$

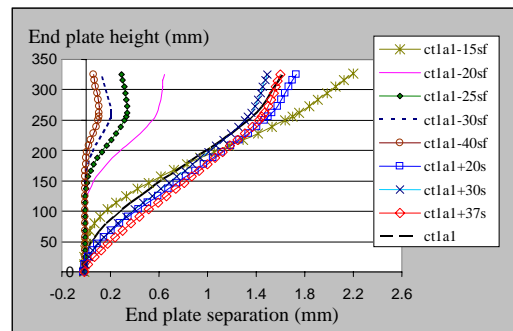
ct1b6

/ $F_{y\text{-beam}}$

/ $F_{y\text{-beam}}$

() ()

ct1a1

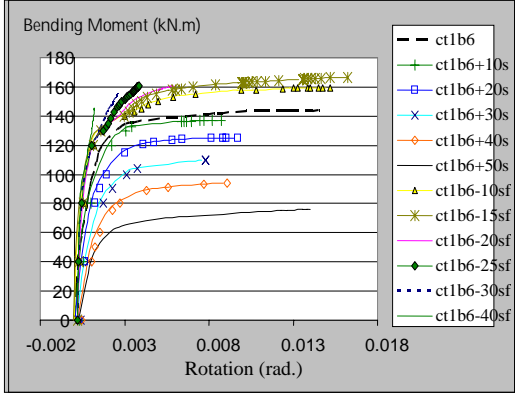


.ct1a1

/ $F_{y\text{-beam}}$

/ ()

/ $F_{y\text{-beam}}$



ct1b6

ct1a1

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ct1a1

()

ct1b6

ct1b6

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(Kn.m/rad)

ct1a1

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	ct1a1	ct1a1-10sf	ct1a1-15sf	ct1a1-20sf	ct1a1-25sf	ct1a1-30sf
	/ x	/ x	/ x	/ x	/ x	/ x
	ct1a1-40sf	ct1a1+10s	ct1a1+20s	ct1a1+30s	ct1a1+37s	-
	/ x	/ x	/ x	/ x	/ x	

(Kn.m/rad)

ct1b6

:

	ct1b6	ct1b6-10sf	ct1b6-15sf	ct1b6-20sf	ct1b6-25sf	ct1b6-30sf
	/ x	/ x	/ x	/ x	/ x	/ x
	ct1b6-40sf	ct1b6+10s	ct1b6+20s	ct1b6+30s	ct1b6+40s	ct1b6+50s
	/ x	/ x	/ x	/ x	/ x	/ x

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- 1 - Prying Force
- 2 - Moment Ratio