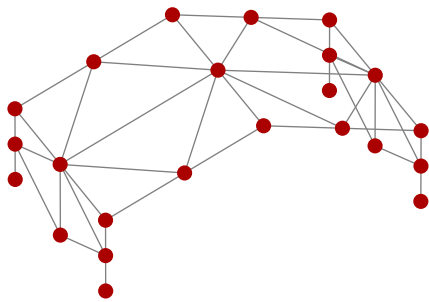
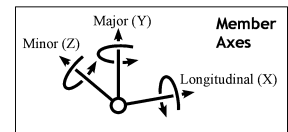
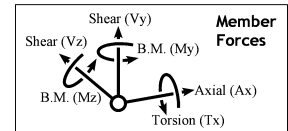
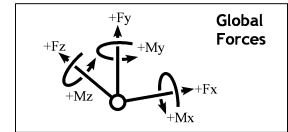
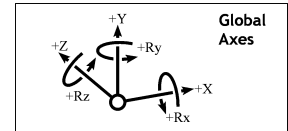


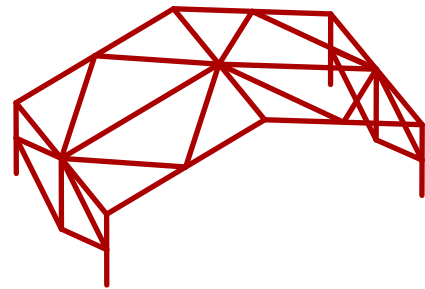
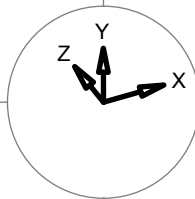
**Project name: (Model) Space Portal**

**Group: (Selection)**  
**Loadcase: Loadcase 1**

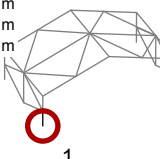
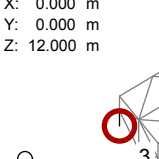
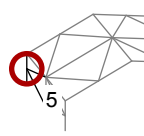
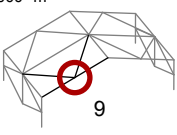
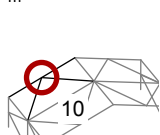
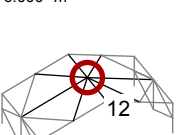
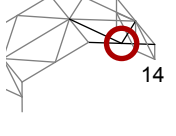
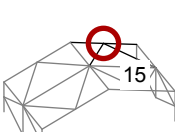
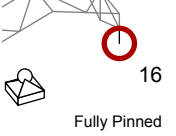
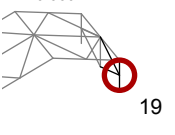
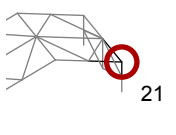

	Total	Analysed	Reported
Node count	23	23	23
Member count	42	42	42
Mass	8392.60	8392.60	8392.60 kg

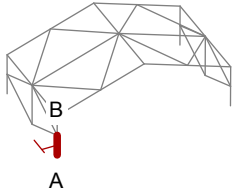


Reported nodes

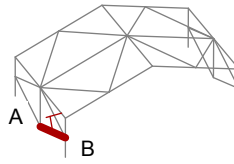


Reported members

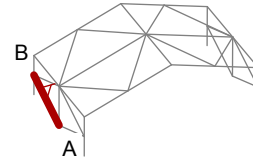
<p>X: 0.000 m Y: 0.000 m Z: 0.000 m</p>  <p>1</p> <p>Fully Pinned</p>	<p>X: 0.000 m Y: 0.000 m Z: 6.000 m</p>  <p>2</p> <p>Fully Pinned</p>	<p>X: 0.000 m Y: 0.000 m Z: 12.000 m</p>  <p>3</p> <p>Fully Pinned</p>	<p>X: 0.000 m Y: 2.500 m Z: 0.000 m</p>  <p>4</p>
<p>X: 0.000 m Y: 2.500 m Z: 12.000 m</p>  <p>5</p>	<p>X: 0.000 m Y: 5.000 m Z: 0.000 m</p>  <p>6</p>	<p>X: 0.000 m Y: 5.000 m Z: 6.000 m</p>  <p>7</p>	<p>X: 0.000 m Y: 5.000 m Z: 12.000 m</p>  <p>8</p>
<p>X: 5.000 m Y: 6.750 m Z: 0.000 m</p>  <p>9</p>	<p>X: 5.000 m Y: 6.750 m Z: 12.000 m</p>  <p>10</p>	<p>X: 10.000 m Y: 8.500 m Z: 0.000 m</p>  <p>11</p>	<p>X: 10.000 m Y: 8.500 m Z: 6.000 m</p>  <p>12</p>
<p>X: 10.000 m Y: 8.500 m Z: 12.000 m</p>  <p>13</p>	<p>X: 15.000 m Y: 6.750 m Z: 0.000 m</p>  <p>14</p>	<p>X: 15.000 m Y: 6.750 m Z: 12.000 m</p>  <p>15</p>	<p>X: 20.000 m Y: 0.000 m Z: 0.000 m</p>  <p>16</p> <p>Fully Pinned</p>
<p>X: 20.000 m Y: 0.000 m Z: 6.000 m</p>  <p>17</p> <p>Fully Pinned</p>	<p>X: 20.000 m Y: 0.000 m Z: 12.000 m</p>  <p>18</p> <p>Fully Pinned</p>	<p>X: 20.000 m Y: 2.500 m Z: 0.000 m</p>  <p>19</p>	<p>X: 20.000 m Y: 2.500 m Z: 12.000 m</p>  <p>20</p>
<p>X: 20.000 m Y: 5.000 m Z: 0.000 m</p>  <p>21</p>	<p>X: 20.000 m Y: 5.000 m Z: 6.000 m</p>  <p>22</p>	<p>X: 20.000 m Y: 5.000 m Z: 12.000 m</p>  <p>23</p>	



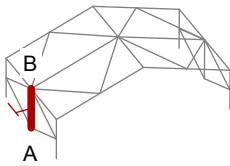
**Member # 1 (Nodes 1 - 4)**  
533 x 210 x 82 UB (British) : L = 2.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 0.000, 0.000 ) m  
B ( 0.000, 2.500, 0.000 ) m



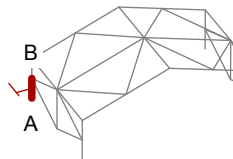
**Member # 2 (Nodes 2 - 4)**  
139.7 x 5.0 CHS (British) : L = 6.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 0.000, 6.000 ) m  
B ( 0.000, 2.500, 0.000 ) m



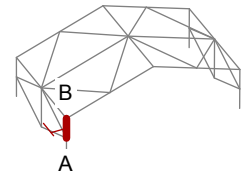
**Member # 3 (Nodes 2 - 5)**  
139.7 x 5.0 CHS (British) : L = 6.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 0.000, 6.000 ) m  
B ( 0.000, 2.500, 12.000 ) m



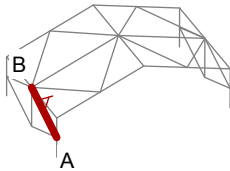
**Member # 4 (Nodes 2 - 7)**  
533 x 210 x 82 UB (British) : L = 5.000 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 0.000, 6.000 ) m  
B ( 0.000, 5.000, 6.000 ) m



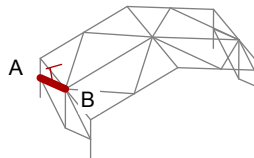
**Member # 5 (Nodes 3 - 5)**  
533 x 210 x 82 UB (British) : L = 2.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 0.000, 12.000 ) m  
B ( 0.000, 2.500, 12.000 ) m



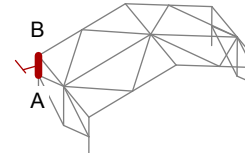
**Member # 6 (Nodes 4 - 6)**  
533 x 210 x 82 UB (British) : L = 2.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 2.500, 0.000 ) m  
B ( 0.000, 5.000, 0.000 ) m



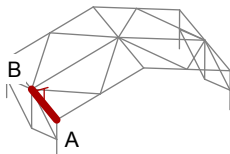
**Member # 7 (Nodes 4 - 7)**  
139.7 x 5.0 CHS (British) : L = 6.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 2.500, 0.000 ) m  
B ( 0.000, 5.000, 6.000 ) m



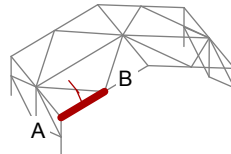
**Member # 8 (Nodes 5 - 7)**  
139.7 x 5.0 CHS (British) : L = 6.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 2.500, 12.000 ) m  
B ( 0.000, 5.000, 6.000 ) m



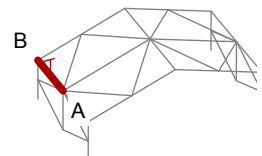
**Member # 9 (Nodes 5 - 8)**  
533 x 210 x 82 UB (British) : L = 2.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 2.500, 12.000 ) m  
B ( 0.000, 5.000, 12.000 ) m



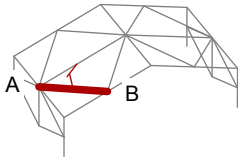
**Member # 10 (Nodes 6 - 7)**  
139.7 x 5.0 CHS (British) : L = 6.000 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 5.000, 0.000 ) m  
B ( 0.000, 5.000, 6.000 ) m



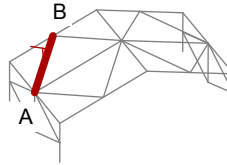
**Member # 11 (Nodes 6 - 9)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 5.000, 0.000 ) m  
B ( 5.000, 6.750, 0.000 ) m



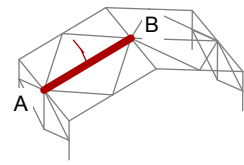
**Member # 12 (Nodes 7 - 8)**  
139.7 x 5.0 CHS (British) : L = 6.000 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 5.000, 6.000 ) m  
B ( 0.000, 5.000, 12.000 ) m



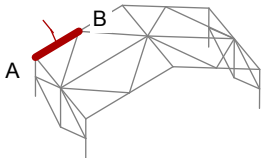
**Member # 13 (Nodes 7 - 9)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 5.000, 6.000 ) m  
B ( 5.000, 6.750, 0.000 ) m



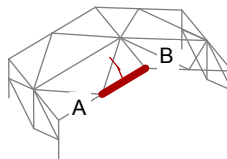
**Member # 14 (Nodes 7 - 10)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 5.000, 6.000 ) m  
B ( 5.000, 6.750, 12.000 ) m



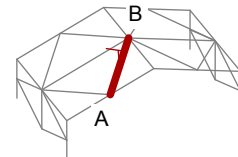
**Member # 15 (Nodes 7 - 12)**  
406 x 178 x 54 UB (British) : L = 10.595 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 5.000, 6.000 ) m  
B ( 10.000, 8.500, 6.000 ) m



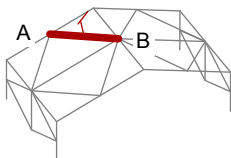
**Member # 16 (Nodes 8 - 10)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 0.000, 5.000, 12.000 ) m  
B ( 5.000, 6.750, 12.000 ) m



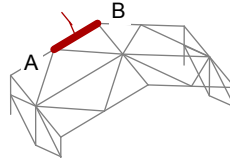
**Member # 17 (Nodes 9 - 11)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 5.000, 6.750, 0.000 ) m  
B ( 10.000, 8.500, 0.000 ) m



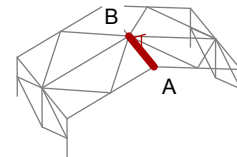
**Member # 18 (Nodes 9 - 12)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 5.000, 6.750, 0.000 ) m  
B ( 10.000, 8.500, 6.000 ) m



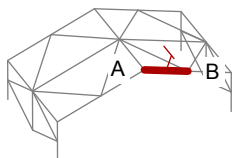
**Member # 19 (Nodes 10 - 12)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 5.000, 6.750, 12.000 ) m  
B ( 10.000, 8.500, 6.000 ) m



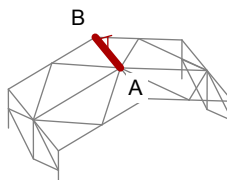
**Member # 20 (Nodes 10 - 13)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 5.000, 6.750, 12.000 ) m  
B ( 10.000, 8.500, 12.000 ) m



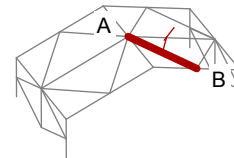
**Member # 21 (Nodes 11 - 12)**  
139.7 x 5.0 CHS (British) : L = 6.000 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 0.000 ) m  
B ( 10.000, 8.500, 6.000 ) m



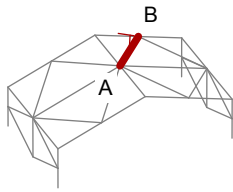
**Member # 22 (Nodes 11 - 14)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 0.000 ) m  
B ( 15.000, 6.750, 0.000 ) m



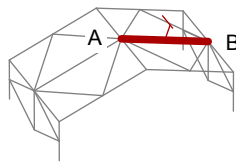
**Member # 23 (Nodes 12 - 13)**  
139.7 x 5.0 CHS (British) : L = 6.000 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 6.000 ) m  
B ( 10.000, 8.500, 12.000 ) m



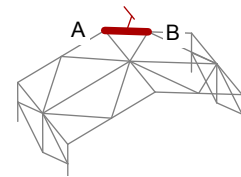
**Member # 24 (Nodes 12 - 14)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 6.000 ) m  
B ( 15.000, 6.750, 0.000 ) m



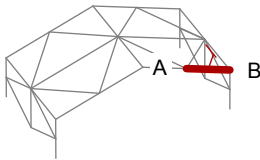
**Member # 25 (Nodes 12 - 15)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 6.000 ) m  
B ( 15.000, 6.750, 12.000 ) m



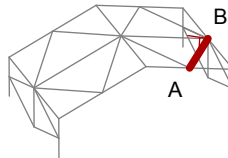
**Member # 26 (Nodes 12 - 22)**  
406 x 178 x 54 UB (British) : L = 10.595 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 6.000 ) m  
B ( 20.000, 5.000, 6.000 ) m



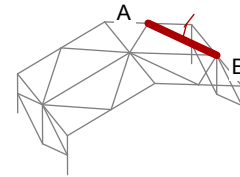
**Member # 27 (Nodes 13 - 15)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 12.000 ) m  
B ( 15.000, 6.750, 12.000 ) m



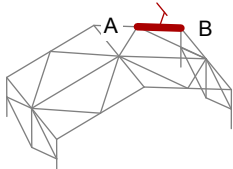
**Member # 28 (Nodes 14 - 21)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 15.000, 6.750, 0.000 ) m  
B ( 20.000, 5.000, 0.000 ) m



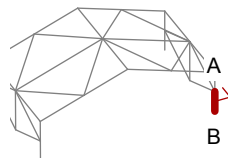
**Member # 29 (Nodes 14 - 22)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 15.000, 6.750, 0.000 ) m  
B ( 20.000, 5.000, 6.000 ) m



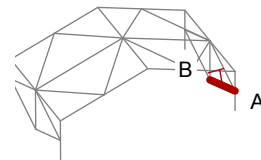
**Member # 30 (Nodes 15 - 22)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 15.000, 6.750, 12.000 ) m  
B ( 20.000, 5.000, 6.000 ) m



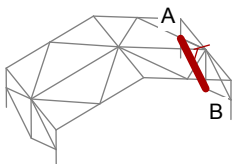
**Member # 31 (Nodes 15 - 23)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 15.000, 6.750, 12.000 ) m  
B ( 20.000, 5.000, 12.000 ) m



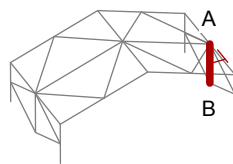
**Member # 32 (Nodes 19 - 16)**  
533 x 210 x 82 UB (British) : L = 2.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 2.500, 0.000 ) m  
B ( 20.000, 0.000, 0.000 ) m



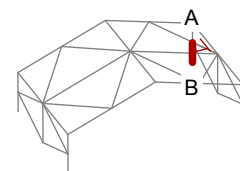
**Member # 33 (Nodes 19 - 17)**  
139.7 x 5.0 CHS (British) : L = 6.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 2.500, 0.000 ) m  
B ( 20.000, 0.000, 6.000 ) m



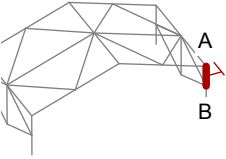
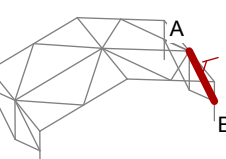
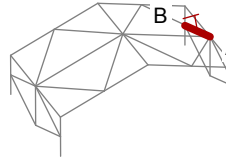
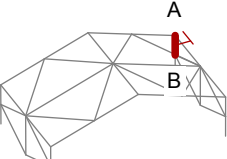
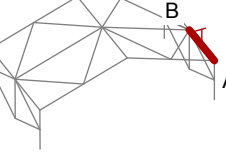
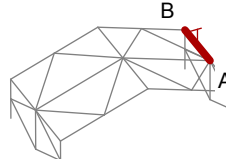
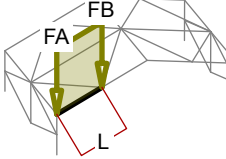
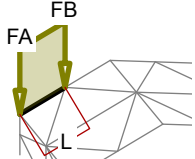
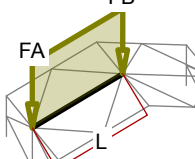
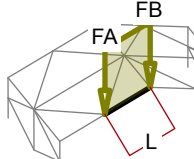
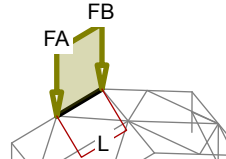
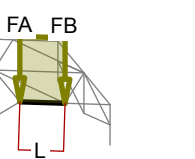
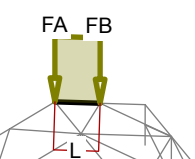
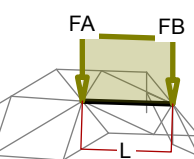
**Member # 34 (Nodes 20 - 17)**  
139.7 x 5.0 CHS (British) : L = 6.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 2.500, 12.000 ) m  
B ( 20.000, 0.000, 6.000 ) m

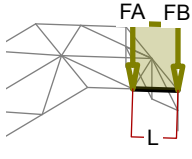
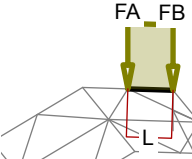


**Member # 35 (Nodes 22 - 17)**  
533 x 210 x 82 UB (British) : L = 5.000 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 5.000, 6.000 ) m  
B ( 20.000, 0.000, 6.000 ) m



**Member # 36 (Nodes 20 - 18)**  
533 x 210 x 82 UB (British) : L = 2.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 2.500, 12.000 ) m  
B ( 20.000, 0.000, 12.000 ) m

 <p><b>Member # 37 (Nodes 21 - 19)</b>                      533 x 210 x 82 UB (British) : L = 2.500 m                      Steel : E = 205, G = 80 kN/mm<sup>2</sup>                      A ( 20.000, 5.000, 0.000 ) m                      B ( 20.000, 2.500, 0.000 ) m</p>	 <p><b>Member # 38 (Nodes 22 - 19)</b>                      139.7 x 5.0 CHS (British) : L = 6.500 m                      Steel : E = 205, G = 80 kN/mm<sup>2</sup>                      A ( 20.000, 5.000, 6.000 ) m                      B ( 20.000, 2.500, 0.000 ) m</p>	 <p><b>Member # 39 (Nodes 22 - 20)</b>                      139.7 x 5.0 CHS (British) : L = 6.500 m                      Steel : E = 205, G = 80 kN/mm<sup>2</sup>                      A ( 20.000, 5.000, 6.000 ) m                      B ( 20.000, 2.500, 12.000 ) m</p>	
 <p><b>Member # 40 (Nodes 23 - 20)</b>                      533 x 210 x 82 UB (British) : L = 2.500 m                      Steel : E = 205, G = 80 kN/mm<sup>2</sup>                      A ( 20.000, 5.000, 12.000 ) m                      B ( 20.000, 2.500, 12.000 ) m</p>	 <p><b>Member # 41 (Nodes 21 - 22)</b>                      139.7 x 5.0 CHS (British) : L = 6.000 m                      Steel : E = 205, G = 80 kN/mm<sup>2</sup>                      A ( 20.000, 5.000, 0.000 ) m                      B ( 20.000, 5.000, 6.000 ) m</p>	 <p><b>Member # 42 (Nodes 22 - 23)</b>                      139.7 x 5.0 CHS (British) : L = 6.000 m                      Steel : E = 205, G = 80 kN/mm<sup>2</sup>                      A ( 20.000, 5.000, 6.000 ) m                      B ( 20.000, 5.000, 12.000 ) m</p>	
<p>1</p>  <p>FA 0.35 kN/m                      FB 0.35 kN/m      L 5.297 m</p>	<p>2</p>  <p>FA 0.35 kN/m                      FB 0.35 kN/m      L 5.297 m</p>	<p>3</p>  <p>FA 0.70 kN/m                      FB 0.70 kN/m      L 10.595 m</p>	<p>4</p>  <p>FA 0.35 kN/m                      FB 0.35 kN/m      L 5.297 m</p>
<p>5</p>  <p>FA 0.35 kN/m                      FB 0.35 kN/m      L 5.297 m</p>	<p>6</p>  <p>FA 0.35 kN/m                      FB 0.35 kN/m      L 5.297 m</p>	<p>7</p>  <p>FA 0.35 kN/m                      FB 0.35 kN/m      L 5.297 m</p>	<p>8</p>  <p>FA 0.70 kN/m                      FB 0.70 kN/m      L 10.595 m</p>

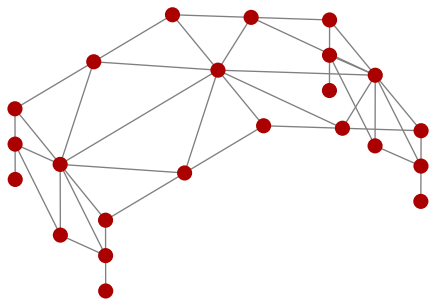
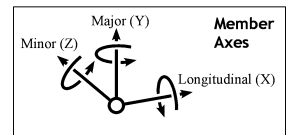
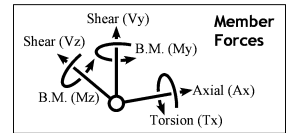
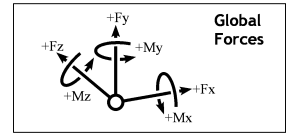
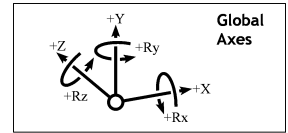
9	10
 <p data-bbox="135 504 438 548">FA 0.35 kN/m FB 0.35 kN/m L 5.297 m</p>	 <p data-bbox="478 504 782 548">FA 0.35 kN/m FB 0.35 kN/m L 5.297 m</p>

**Project name: (Model) Space Portal**

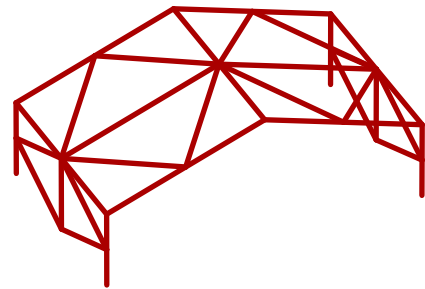
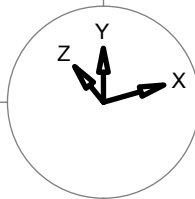
**Group: (Selection)**  
**Loadcase: Loadcase 1**

Point loads: 0  
 Moment loads: 0  
 Trapezoid loads: 10

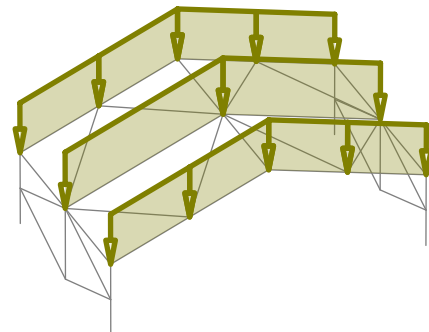
**Total linear**    **Fx**    **Fy**    **Fz**  
 Gross force 0.00, 29.66, 0.00 kN  
 Net force 0.00, -29.66, 0.00 kN



Reported nodes

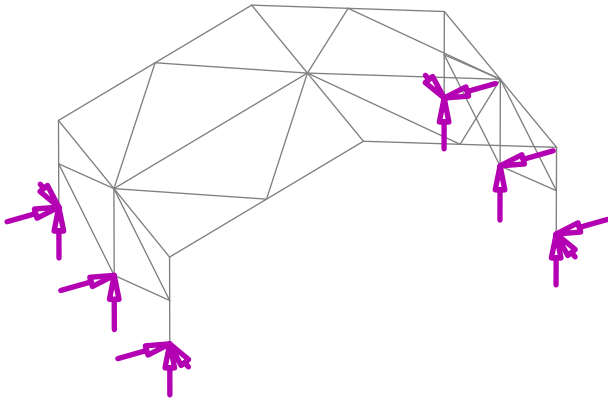


Reported members

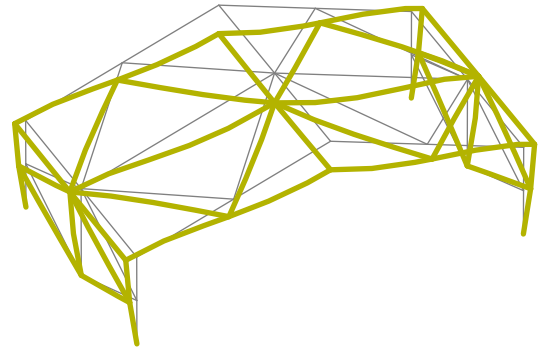


All loads in loadcase

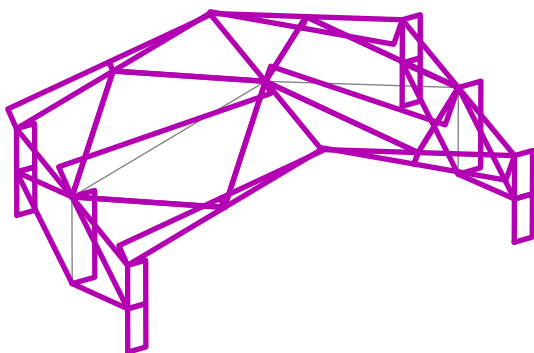




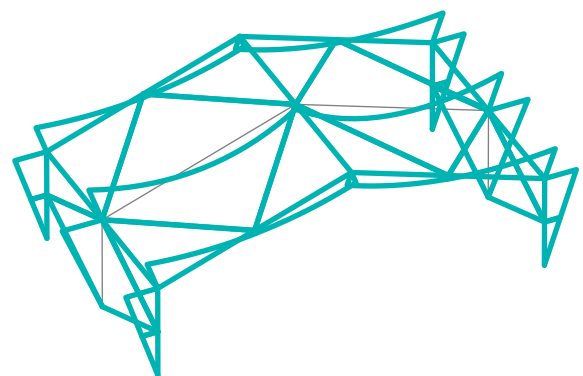
Reactions



Deflections



Shear Forces



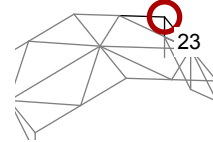
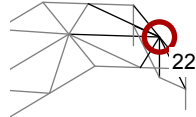
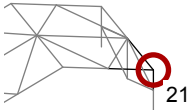
Bending Moments

<p>@: 0.000, 0.000, 0.000 m Dt 0.00, 0.00, 0.00 mm Dr: -0.00, -0.01, 0.34 mrad Rf: 2.27, 4.31, 0.00 kN Rm: 0.00, 0.00, 0.00 kNm</p> <p>Fully Pinned</p>	<p>@: 0.000, 0.000, 6.000 m Dt 0.00, 0.00, 0.00 mm Dr: 0.00, -0.00, 0.37 mrad Rf: 2.84, 6.22, -0.00 kN Rm: 0.00, 0.00, 0.00 kNm</p> <p>Fully Pinned</p>	<p>@: 0.000, 0.000, 12.000 m Dt 0.00, 0.00, 0.00 mm Dr: 0.00, 0.01, 0.34 mrad Rf: 2.27, 4.31, -0.00 kN Rm: 0.00, 0.00, 0.00 kNm</p> <p>Fully Pinned</p>	<p>@: 0.000, 2.500, 0.000 m Dt -0.78, -0.01, -0.00 mm Dr: 0.00, -0.01, 0.27 mrad</p>
<p>@: 0.000, 2.500, 12.000 m Dt -0.78, -0.01, 0.00 mm Dr: -0.00, 0.01, 0.27 mrad</p>	<p>@: 0.000, 5.000, 0.000 m Dt -1.21, -0.01, -0.00 mm Dr: 0.00, 0.00, 0.05 mrad</p>	<p>@: 0.000, 5.000, 6.000 m Dt -1.23, -0.01, 0.00 mm Dr: 0.00, -0.00, 0.00 mrad</p>	<p>@: 0.000, 5.000, 12.000 m Dt -1.21, -0.01, 0.00 mm Dr: -0.00, -0.00, 0.05 mrad</p>
<p>@: 5.000, 6.750, 0.000 m Dt -0.53, -1.97, -0.02 mm Dr: -0.03, -0.01, -0.53 mrad</p>	<p>@: 5.000, 6.750, 12.000 m Dt -0.53, -1.97, 0.02 mm Dr: 0.03, 0.01, -0.53 mrad</p>	<p>@: 10.000, 8.500, 0.000 m Dt 0.00, -3.50, 0.00 mm Dr: 0.03, -0.00, -0.00 mrad</p>	<p>@: 10.000, 8.500, 6.000 m Dt -0.00, -3.66, 0.00 mm Dr: 0.00, 0.00, 0.00 mrad</p>
<p>@: 10.000, 8.500, 12.000 m Dt 0.00, -3.50, -0.00 mm Dr: -0.03, 0.00, -0.00 mrad</p>	<p>@: 15.000, 6.750, 0.000 m Dt 0.53, -1.97, -0.02 mm Dr: -0.03, 0.01, 0.53 mrad</p>	<p>@: 15.000, 6.750, 12.000 m Dt 0.53, -1.97, 0.02 mm Dr: 0.03, -0.01, 0.53 mrad</p>	<p>@: 20.000, 0.000, 0.000 m Dt 0.00, 0.00, 0.00 mm Dr: -0.00, 0.01, -0.34 mrad Rf: -2.27, 4.31, 0.00 kN Rm: 0.00, 0.00, 0.00 kNm</p> <p>Fully Pinned</p>
<p>@: 20.000, 0.000, 6.000 m Dt 0.00, 0.00, 0.00 mm Dr: -0.00, 0.00, -0.37 mrad Rf: -2.84, 6.22, 0.00 kN Rm: 0.00, 0.00, 0.00 kNm</p> <p>Fully Pinned</p>	<p>@: 20.000, 0.000, 12.000 m Dt 0.00, 0.00, 0.00 mm Dr: 0.00, -0.01, -0.34 mrad Rf: -2.27, 4.31, -0.00 kN Rm: 0.00, 0.00, 0.00 kNm</p> <p>Fully Pinned</p>	<p>@: 20.000, 2.500, 0.000 m Dt 0.78, -0.01, -0.00 mm Dr: 0.00, 0.01, -0.27 mrad</p>	<p>@: 20.000, 2.500, 12.000 m Dt 0.78, -0.01, 0.00 mm Dr: -0.00, -0.01, -0.27 mrad</p>

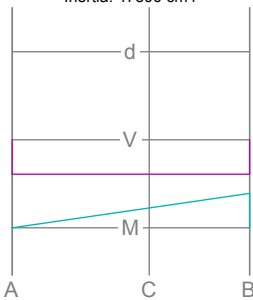
@: 20.000, 5.000, 0.000 m  
 Dt 1.21, -0.01, -0.00 mm  
 Dr: 0.00, -0.00, -0.05 mrad

@: 20.000, 5.000, 6.000 m  
 Dt 1.23, -0.01, -0.00 mm  
 Dr: -0.00, 0.00, -0.00 mrad

@: 20.000, 5.000, 12.000 m  
 Dt 1.21, -0.01, 0.00 mm  
 Dr: -0.00, 0.00, -0.05 mrad

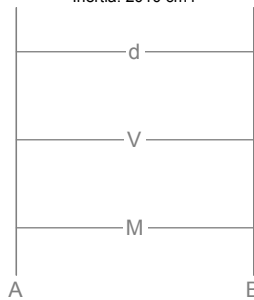


**Major (local)**  
 Inertia: 47500 cm4



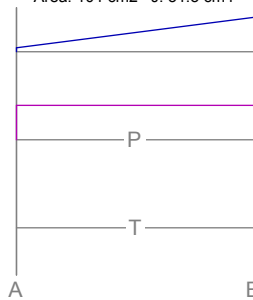
	d (mm)	V (kN)	M (kNm)
A	0.00	-2.27	0.00
C	0.02	-2.27	-3.27
B	0.00	-2.27	-5.67

**Minor (local)**  
 Inertia: 2010 cm4

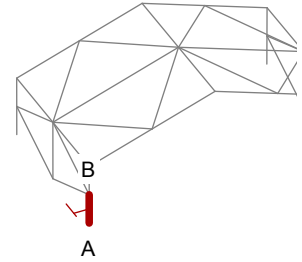


	d (mm)	V (kN)	M (kNm)
A	0.00	0.00	0.00
B	0.00	0.00	0.01

**Longitudinal (local)**  
 Area: 104 cm2 J: 51.3 cm4



	S (N/mm²)	P (kN)	T (kNm)
A	0.41	4.31	0.00
B	3.60	4.31	0.00

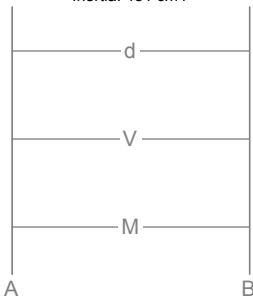


**Member # 1 (Nodes 1 - 4)**  
 533 x 210 x 82 UB (British) : L = 2.500 m  
 Steel : E = 205, G = 80 kN/mm²  
 A ( 0.000, 0.000, 0.000 ) m  
 B ( 0.000, 2.500, 0.000 ) m

**Global deflections**  
 A ( 0.00, 0.00, 0.00 ) mm  
 -0.00, -0.01, 0.34 ) mrad

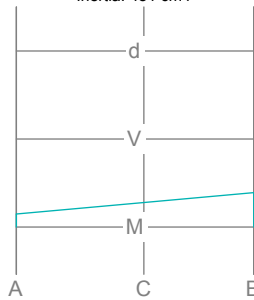
B ( -0.78, -0.01, -0.00 ) mm  
 0.00, -0.01, 0.27 ) mrad

**Major (local)**  
 Inertia: 481 cm4



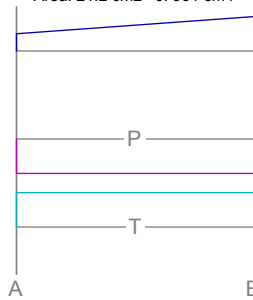
	d (mm)	V (kN)	M (kNm)
A	0.00	0.00	-0.00
B	0.00	0.00	0.00

**Minor (local)**  
 Inertia: 481 cm4

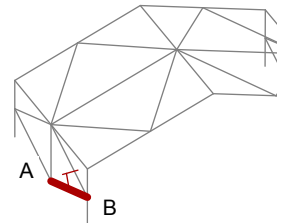


	d (mm)	V (kN)	M (kNm)
A	0.00	0.00	0.00
C	-0.04	0.00	0.01
B	0.00	0.00	0.01

**Longitudinal (local)**  
 Area: 21.2 cm2 J: 961 cm4



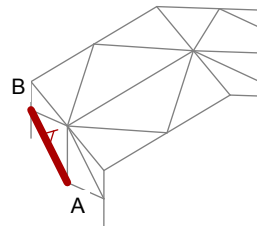
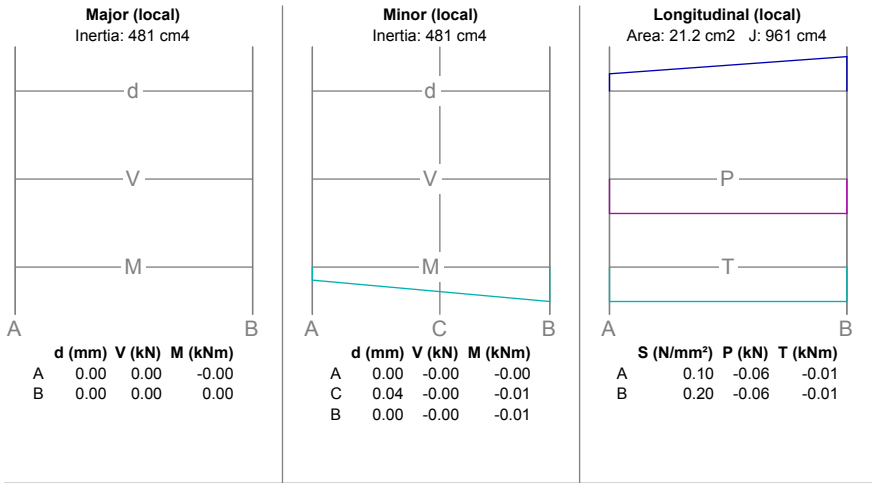
	S (N/mm²)	P (kN)	T (kNm)
A	0.10	-0.06	0.01
B	0.20	-0.06	0.01



**Member # 2 (Nodes 2 - 4)**  
 139.7 x 5.0 CHS (British) : L = 6.500 m  
 Steel : E = 205, G = 80 kN/mm²  
 A ( 0.000, 0.000, 6.000 ) m  
 B ( 0.000, 2.500, 0.000 ) m

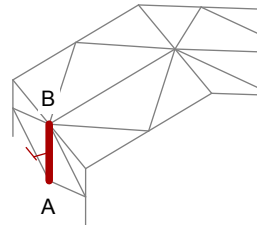
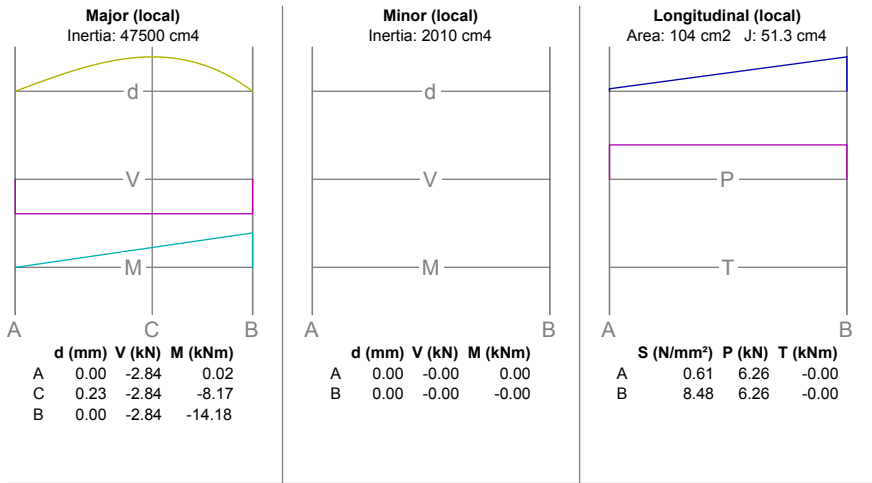
**Global deflections**  
 A ( 0.00, 0.00, 0.00 ) mm  
 0.00, -0.00, 0.37 ) mrad

B ( -0.78, -0.01, -0.00 ) mm  
 0.00, -0.01, 0.27 ) mrad



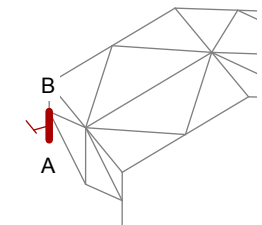
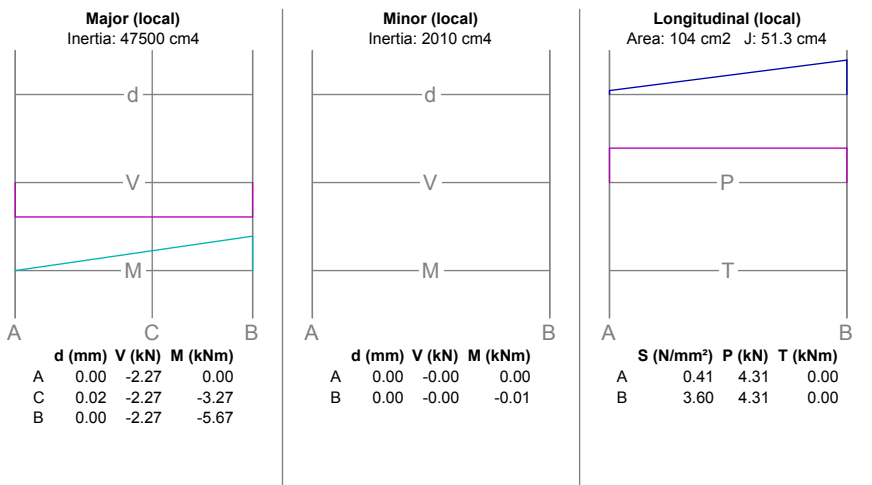
**Member # 3 (Nodes 2 - 5)**  
 139.7 x 5.0 CHS (British) : L = 6.500 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 0.000, 6.000 ) m  
 B ( 0.000, 2.500, 12.000 ) m

**Global deflections**  
 A ( 0.00, 0.00, 0.00 ) mm  
 0.00, -0.00, 0.37 ) mrad  
 B ( -0.78, -0.01, 0.00 ) mm  
 -0.00, 0.01, 0.27 ) mrad



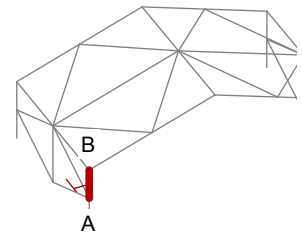
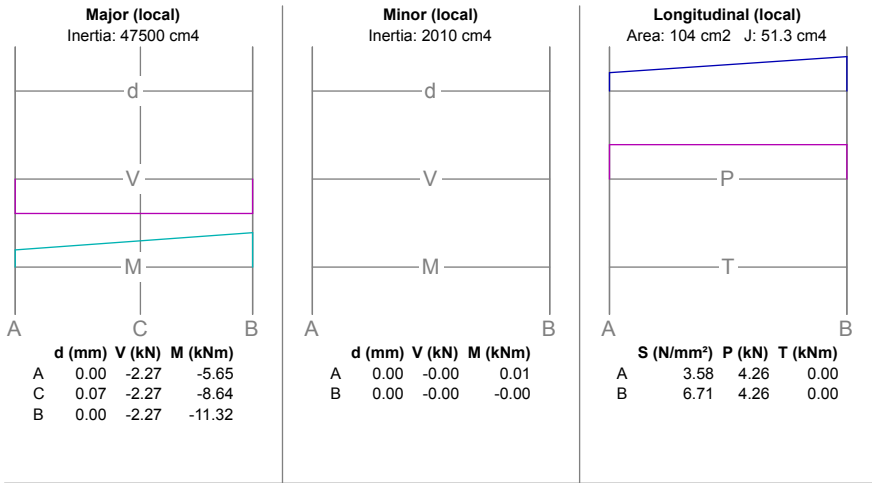
**Member # 4 (Nodes 2 - 7)**  
 533 x 210 x 82 UB (British) : L = 5.000 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 0.000, 6.000 ) m  
 B ( 0.000, 5.000, 6.000 ) m

**Global deflections**  
 A ( 0.00, 0.00, 0.00 ) mm  
 0.00, -0.00, 0.37 ) mrad  
 B ( -1.23, -0.01, 0.00 ) mm  
 0.00, -0.00, 0.00 ) mrad



**Member # 5 (Nodes 3 - 5)**  
 533 x 210 x 82 UB (British) : L = 2.500 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 0.000, 12.000 ) m  
 B ( 0.000, 2.500, 12.000 ) m

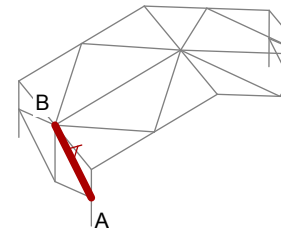
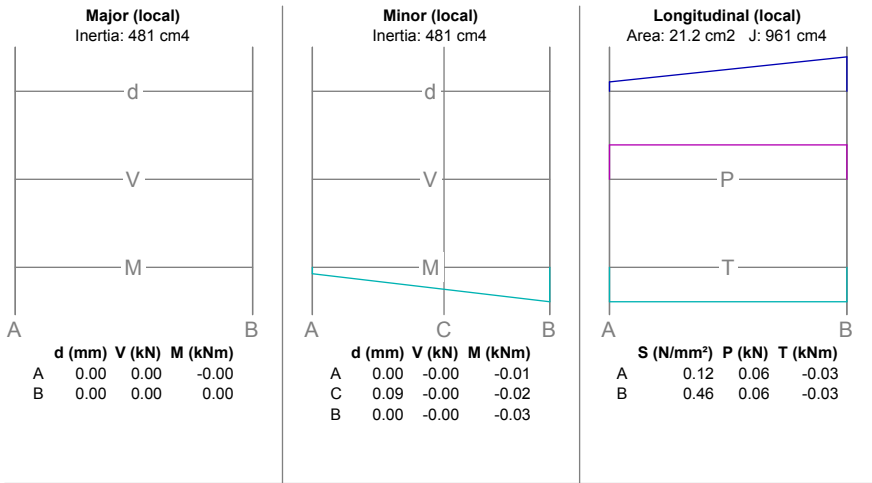
**Global deflections**  
 A ( 0.00, 0.00, 0.00 ) mm  
 0.00, 0.01, 0.34 ) mrad  
 B ( -0.78, -0.01, 0.00 ) mm  
 -0.00, 0.01, 0.27 ) mrad



**Member # 6 (Nodes 4 - 6)**

533 x 210 x 82 UB (British) : L = 2.500 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 2.500, 0.000 ) m  
 B ( 0.000, 5.000, 0.000 ) m

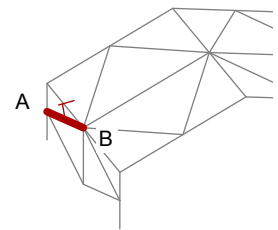
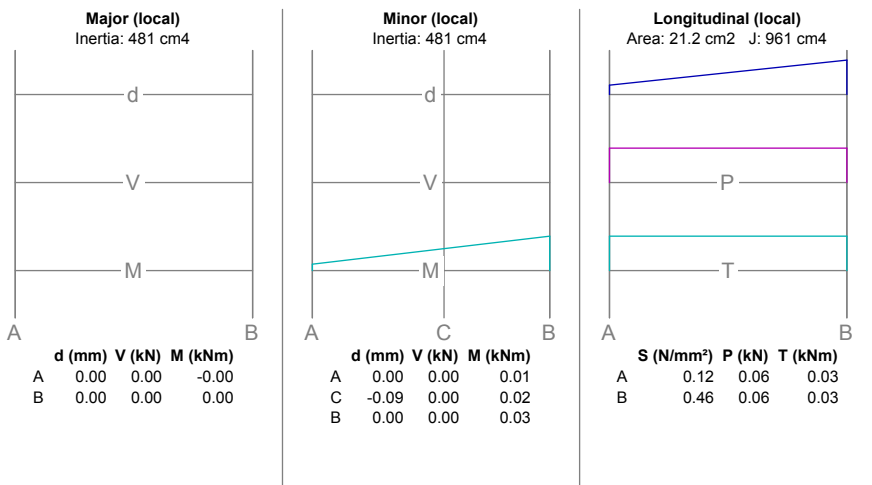
**Global deflections**  
 A ( -0.78, -0.01, -0.00 ) mm  
 0.00, -0.01, 0.27 ) mrad  
 B ( -1.21, -0.01, -0.00 ) mm  
 0.00, 0.00, 0.05 ) mrad



**Member # 7 (Nodes 4 - 7)**

139.7 x 5.0 CHS (British) : L = 6.500 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 2.500, 0.000 ) m  
 B ( 0.000, 5.000, 6.000 ) m

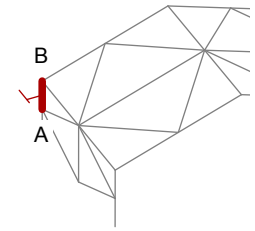
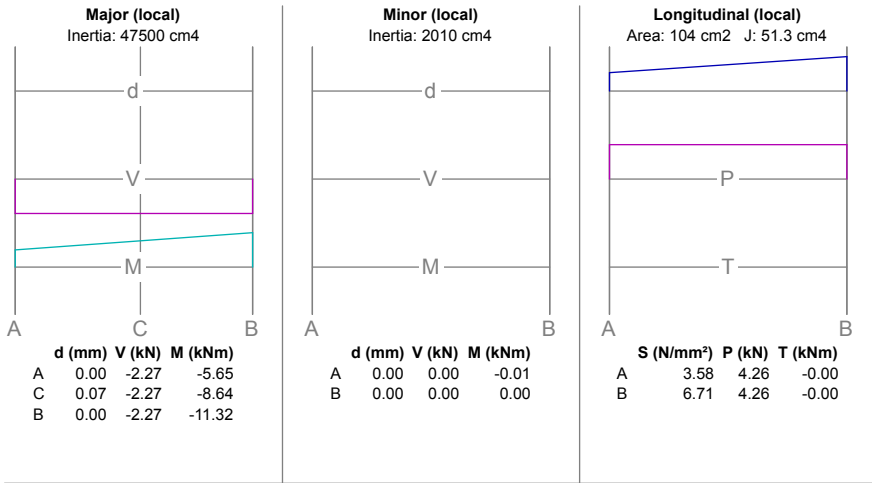
**Global deflections**  
 A ( -0.78, -0.01, -0.00 ) mm  
 0.00, -0.01, 0.27 ) mrad  
 B ( -1.23, -0.01, 0.00 ) mm  
 0.00, -0.00, 0.00 ) mrad



**Member # 8 (Nodes 5 - 7)**

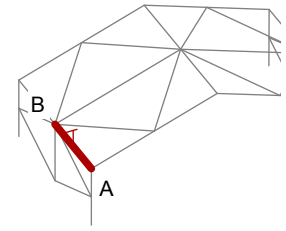
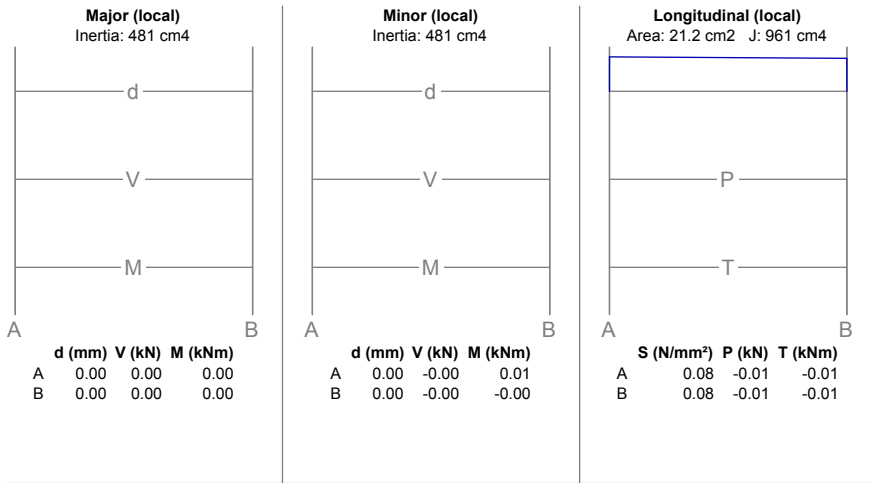
139.7 x 5.0 CHS (British) : L = 6.500 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 2.500, 12.000 ) m  
 B ( 0.000, 5.000, 6.000 ) m

**Global deflections**  
 A ( -0.78, -0.01, 0.00 ) mm  
 -0.00, 0.01, 0.27 ) mrad  
 B ( -1.23, -0.01, 0.00 ) mm  
 0.00, -0.00, 0.00 ) mrad



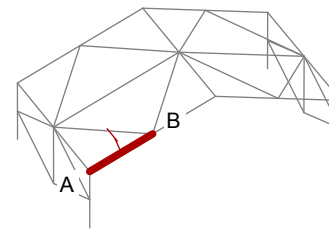
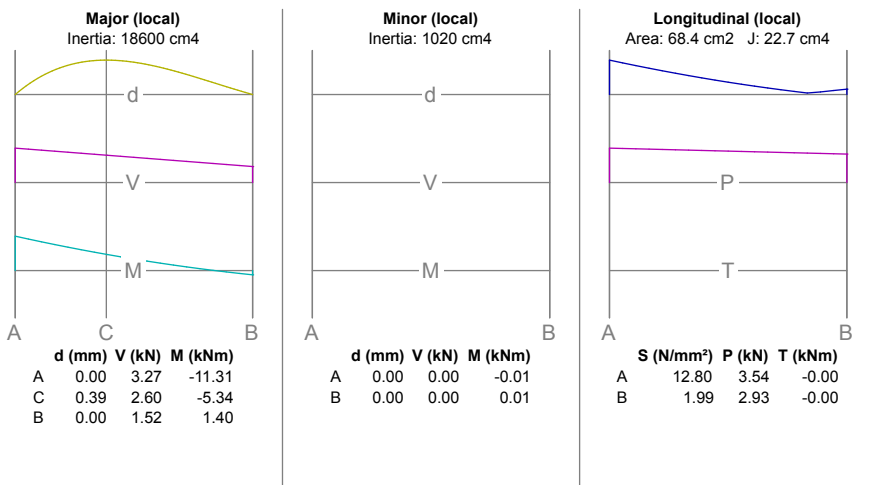
**Member # 9 (Nodes 5 - 8)**  
 533 x 210 x 82 UB (British) : L = 2.500 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 2.500, 12.000 ) m  
 B ( 0.000, 5.000, 12.000 ) m

**Global deflections**  
 A ( -0.78, -0.01, 0.00 ) mm  
 -0.00, 0.01, 0.27 ) mrad  
 B ( -1.21, -0.01, 0.00 ) mm  
 -0.00, -0.00, 0.05 ) mrad



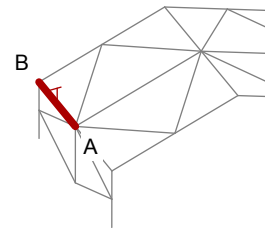
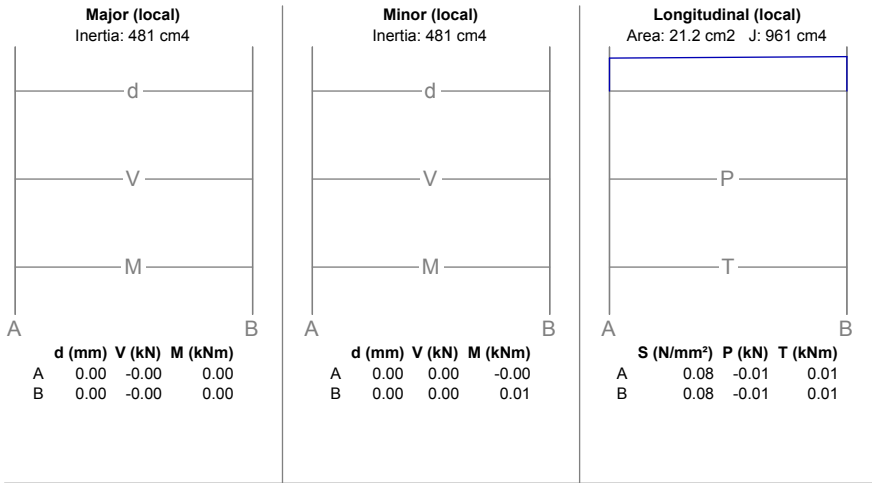
**Member # 10 (Nodes 6 - 7)**  
 139.7 x 5.0 CHS (British) : L = 6.000 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 5.000, 0.000 ) m  
 B ( 0.000, 5.000, 6.000 ) m

**Global deflections**  
 A ( -1.21, -0.01, -0.00 ) mm  
 0.00, 0.00, 0.05 ) mrad  
 B ( -1.23, -0.01, 0.00 ) mm  
 0.00, -0.00, 0.00 ) mrad



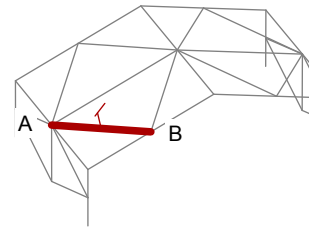
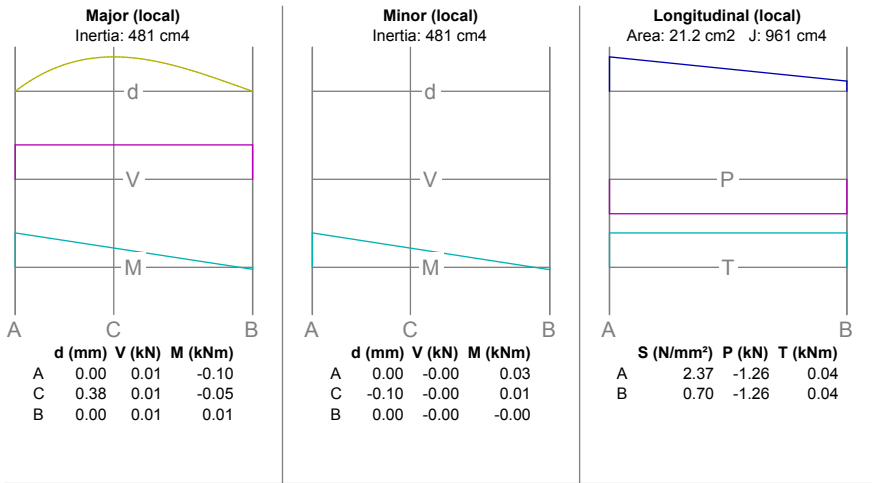
**Member # 11 (Nodes 6 - 9)**  
 406 x 178 x 54 UB (British) : L = 5.297 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 5.000, 0.000 ) m  
 B ( 5.000, 6.750, 0.000 ) m

**Global deflections**  
 A ( -1.21, -0.01, -0.00 ) mm  
 0.00, 0.00, 0.05 ) mrad  
 B ( -0.53, -1.97, -0.02 ) mm  
 -0.03, -0.01, -0.53 ) mrad



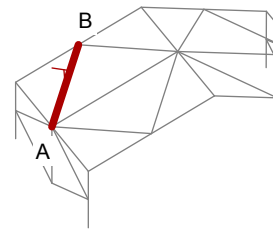
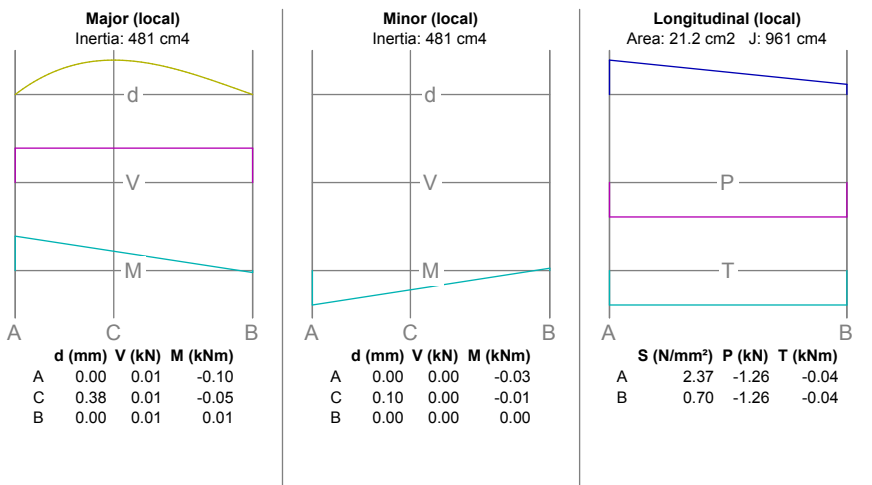
**Member # 12 (Nodes 7 - 8)**  
 139.7 x 5.0 CHS (British) : L = 6.000 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 5.000, 6.000 ) m  
 B ( 0.000, 5.000, 12.000 ) m

**Global deflections**  
 A ( -1.23, -0.01, 0.00 ) mm  
 0.00, -0.00, 0.00 ) mrad  
 B ( -1.21, -0.01, 0.00 ) mm  
 -0.00, -0.00, 0.05 ) mrad



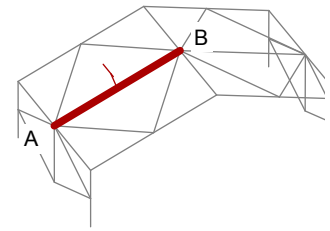
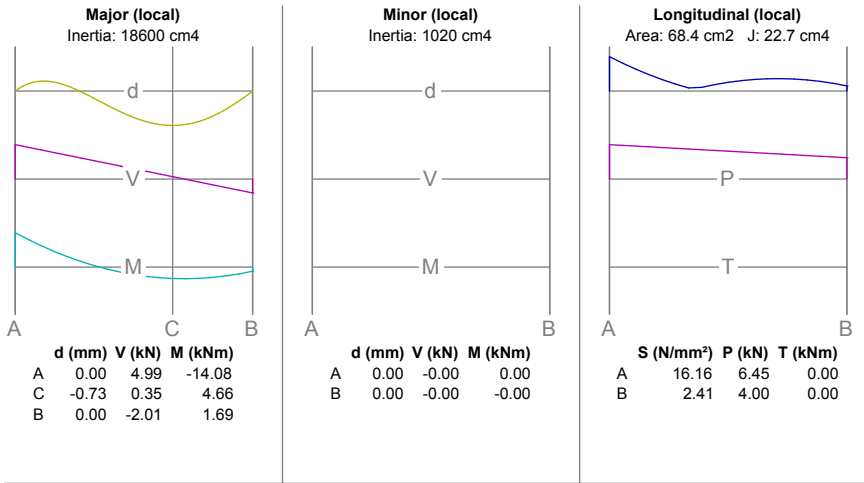
**Member # 13 (Nodes 7 - 9)**  
 139.7 x 5.0 CHS (British) : L = 8.004 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 5.000, 6.000 ) m  
 B ( 5.000, 6.750, 0.000 ) m

**Global deflections**  
 A ( -1.23, -0.01, 0.00 ) mm  
 0.00, -0.00, 0.00 ) mrad  
 B ( -0.53, -1.97, -0.02 ) mm  
 -0.03, -0.01, -0.53 ) mrad



**Member # 14 (Nodes 7 - 10)**  
 139.7 x 5.0 CHS (British) : L = 8.004 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 5.000, 6.000 ) m  
 B ( 5.000, 6.750, 12.000 ) m

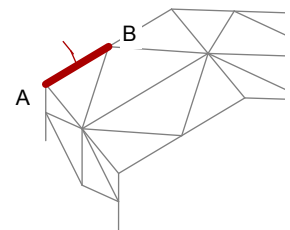
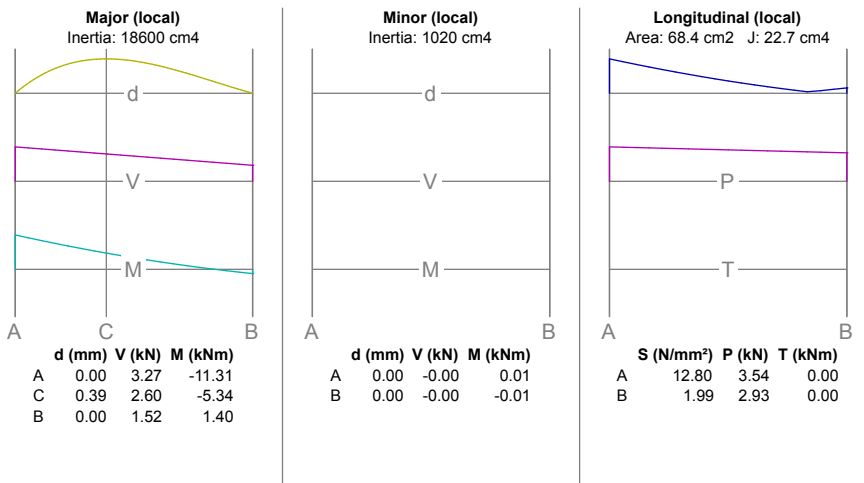
**Global deflections**  
 A ( -1.23, -0.01, 0.00 ) mm  
 0.00, -0.00, 0.00 ) mrad  
 B ( -0.53, -1.97, 0.02 ) mm  
 0.03, 0.01, -0.53 ) mrad



**Member # 15 (Nodes 7 - 12)**

406 x 178 x 54 UB (British) : L = 10.595 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 5.000, 6.000 ) m  
 B ( 10.000, 8.500, 6.000 ) m

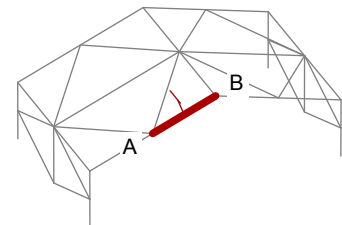
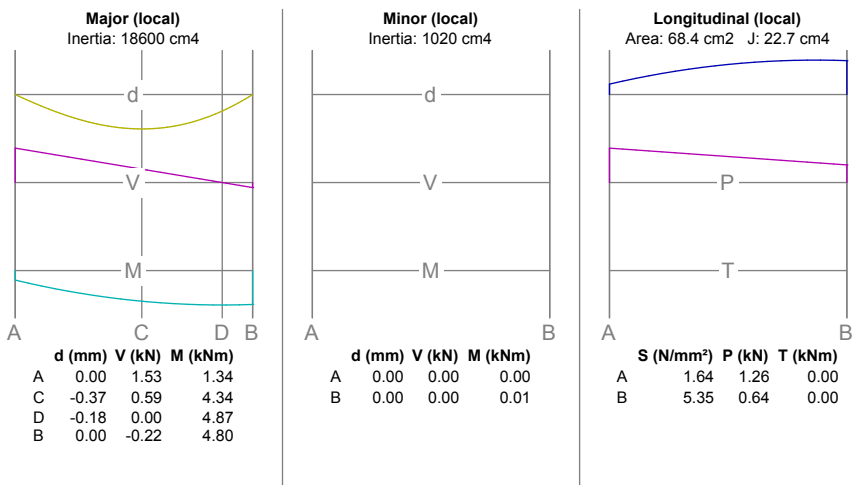
**Global deflections**  
 A ( -1.23, -0.01, 0.00 ) mm  
 0.00, -0.00, 0.00 ) mrad  
 B ( -0.00, -3.66, 0.00 ) mm  
 0.00, 0.00, 0.00 ) mrad



**Member # 16 (Nodes 8 - 10)**

406 x 178 x 54 UB (British) : L = 5.297 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 0.000, 5.000, 12.000 ) m  
 B ( 5.000, 6.750, 12.000 ) m

**Global deflections**  
 A ( -1.21, -0.01, 0.00 ) mm  
 -0.00, -0.00, 0.05 ) mrad  
 B ( -0.53, -1.97, 0.02 ) mm  
 0.03, 0.01, -0.53 ) mrad

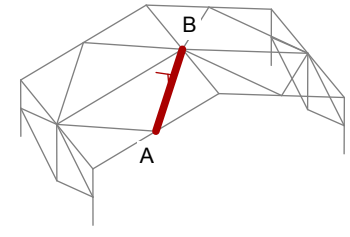
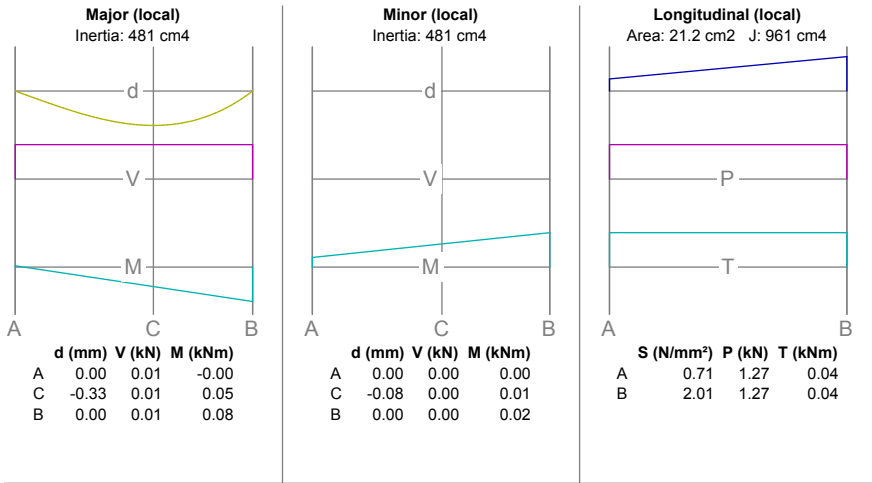


**Member # 17 (Nodes 9 - 11)**

406 x 178 x 54 UB (British) : L = 5.297 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 5.000, 6.750, 0.000 ) m  
 B ( 10.000, 8.500, 0.000 ) m

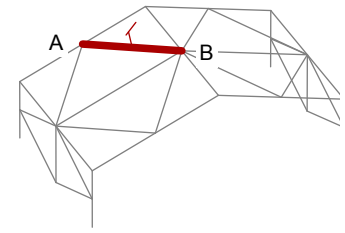
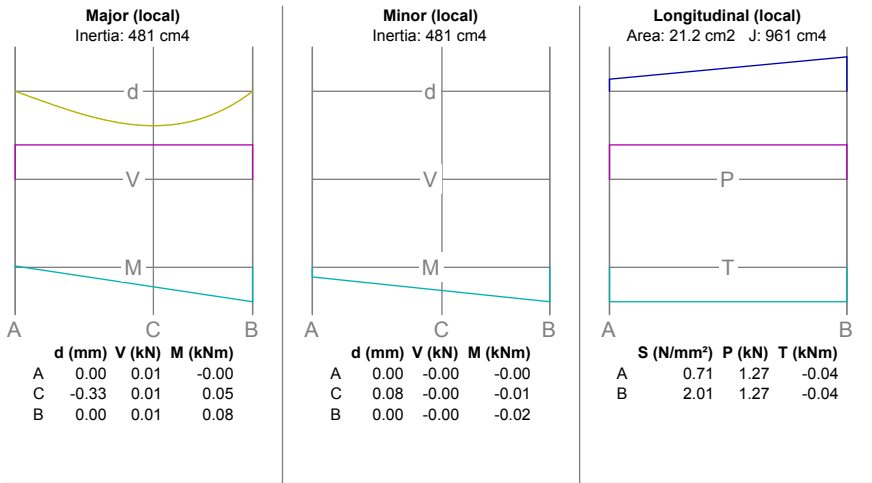
**Global deflections**  
 A ( -0.53, -1.97, -0.02 ) mm  
 -0.03, -0.01, -0.53 ) mrad  
 B ( 0.00, -3.50, 0.00 ) mm  
 0.03, -0.00, -0.00 ) mrad





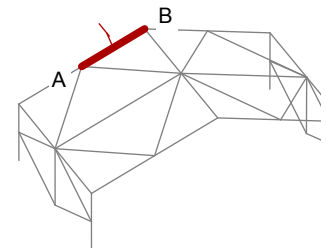
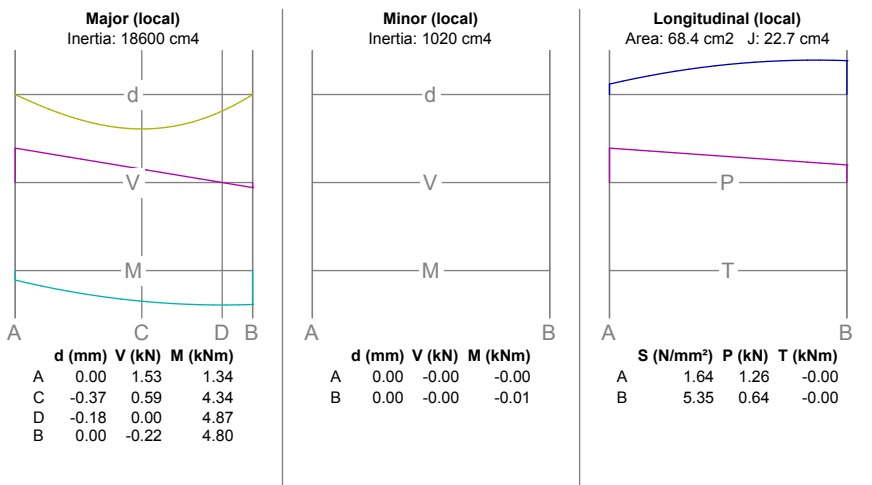
**Member # 18 (Nodes 9 - 12)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 5.000, 6.750, 0.000 ) m  
B ( 10.000, 8.500, 6.000 ) m

**Global deflections**  
A ( -0.53, -1.97, -0.02 ) mm  
-0.03, -0.01, -0.53 ) mrad  
B ( -0.00, -3.66, 0.00 ) mm  
0.00, 0.00, 0.00 ) mrad



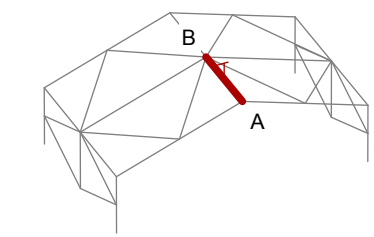
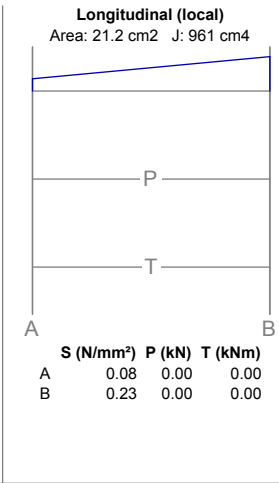
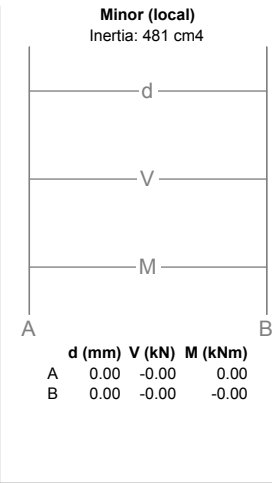
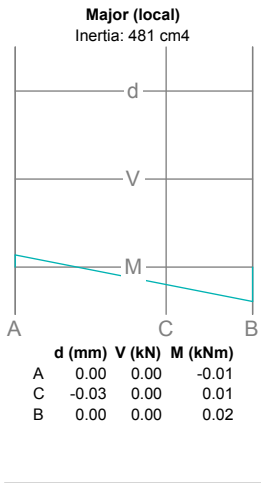
**Member # 19 (Nodes 10 - 12)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 5.000, 6.750, 12.000 ) m  
B ( 10.000, 8.500, 6.000 ) m

**Global deflections**  
A ( -0.53, -1.97, 0.02 ) mm  
0.03, 0.01, -0.53 ) mrad  
B ( -0.00, -3.66, 0.00 ) mm  
0.00, 0.00, 0.00 ) mrad



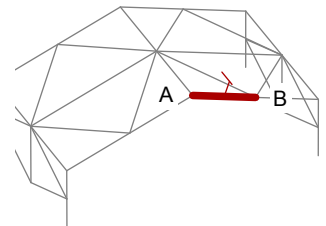
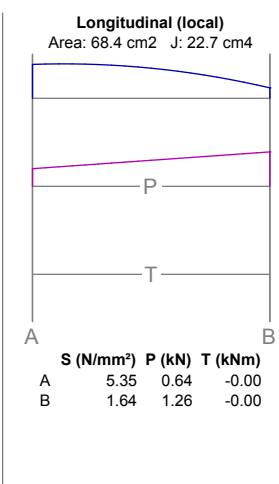
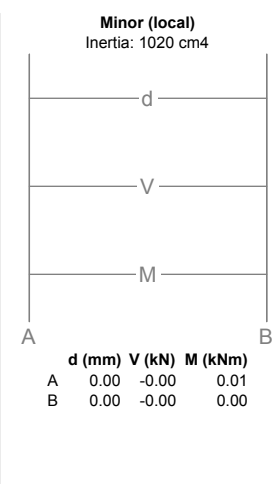
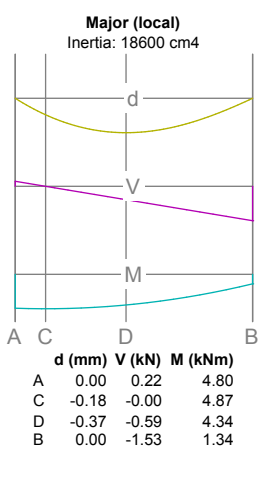
**Member # 20 (Nodes 10 - 13)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 5.000, 6.750, 12.000 ) m  
B ( 10.000, 8.500, 12.000 ) m

**Global deflections**  
A ( -0.53, -1.97, 0.02 ) mm  
0.03, 0.01, -0.53 ) mrad  
B ( 0.00, -3.50, -0.00 ) mm  
-0.03, 0.00, -0.00 ) mrad



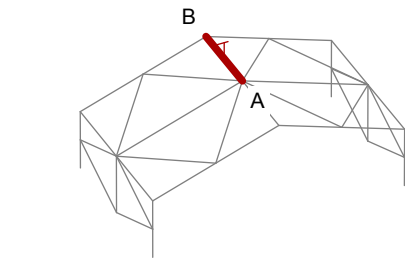
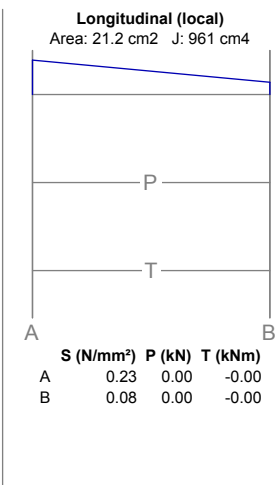
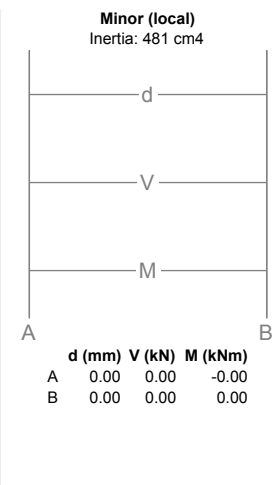
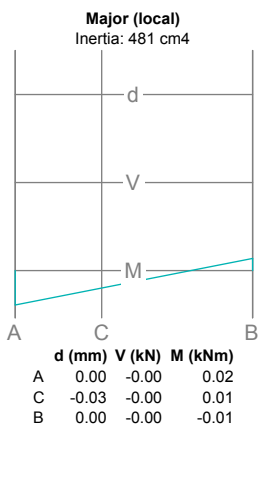
**Member # 21 (Nodes 11 - 12)**  
139.7 x 5.0 CHS (British) : L = 6.000 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 0.000 ) m  
B ( 10.000, 8.500, 6.000 ) m

**Global deflections**  
A ( 0.00, -3.50, 0.00 ) mm  
0.03, -0.00, -0.00 ) mrad  
B ( -0.00, -3.66, 0.00 ) mm  
0.00, 0.00, 0.00 ) mrad



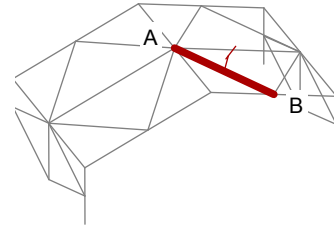
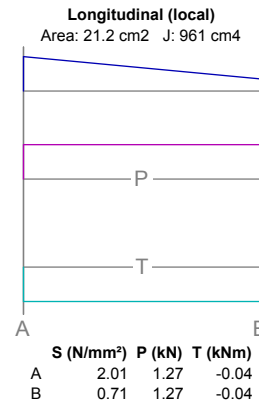
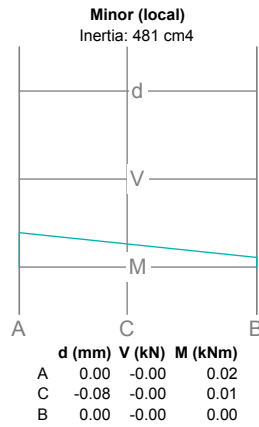
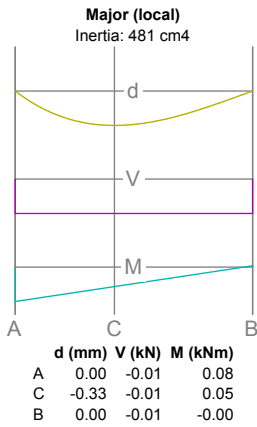
**Member # 22 (Nodes 11 - 14)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 0.000 ) m  
B ( 15.000, 6.750, 0.000 ) m

**Global deflections**  
A ( 0.00, -3.50, 0.00 ) mm  
0.03, -0.00, -0.00 ) mrad  
B ( 0.53, -1.97, -0.02 ) mm  
-0.03, 0.01, 0.53 ) mrad



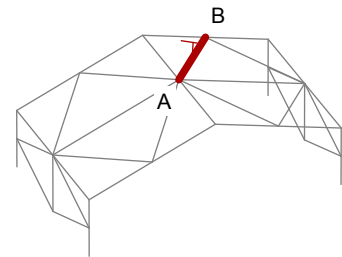
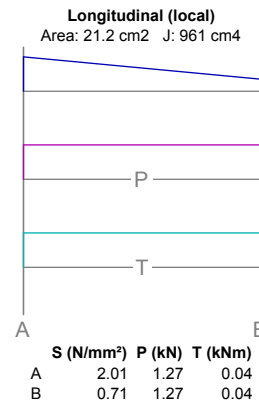
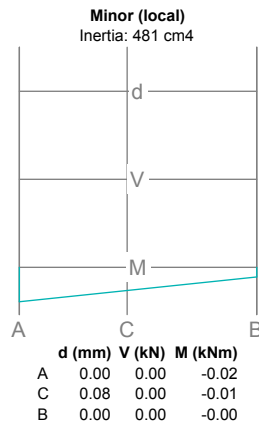
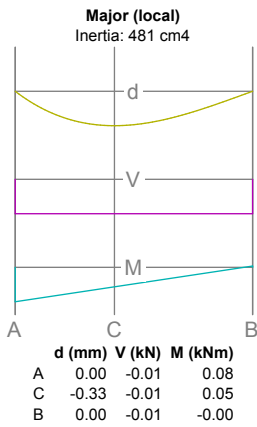
**Member # 23 (Nodes 12 - 13)**  
139.7 x 5.0 CHS (British) : L = 6.000 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 6.000 ) m  
B ( 10.000, 8.500, 12.000 ) m

**Global deflections**  
A ( -0.00, -3.66, 0.00 ) mm  
0.00, 0.00, 0.00 ) mrad  
B ( 0.00, -3.50, -0.00 ) mm  
-0.03, 0.00, -0.00 ) mrad



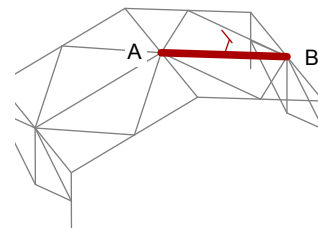
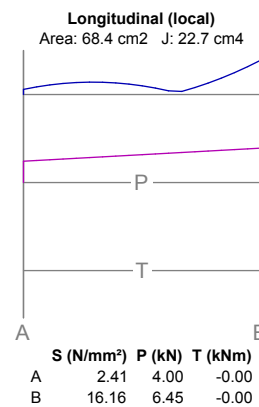
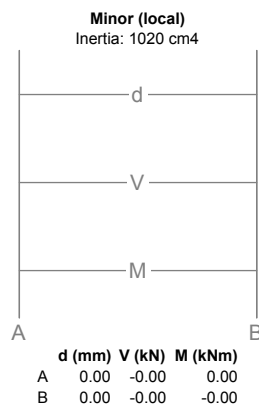
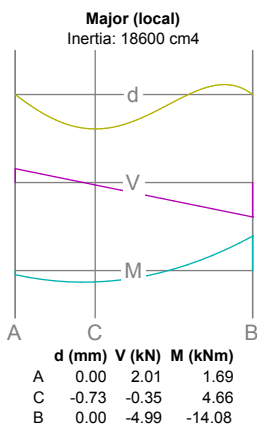
**Member # 24 (Nodes 12 - 14)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 6.000 ) m  
B ( 15.000, 6.750, 0.000 ) m

**Global deflections**  
A ( -0.00, -3.66, 0.00 ) mm  
0.00, 0.00, 0.00 ) mrad  
B ( 0.53, -1.97, -0.02 ) mm  
-0.03, 0.01, 0.53 ) mrad



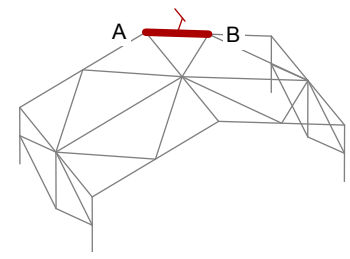
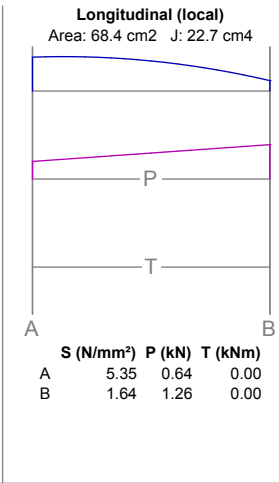
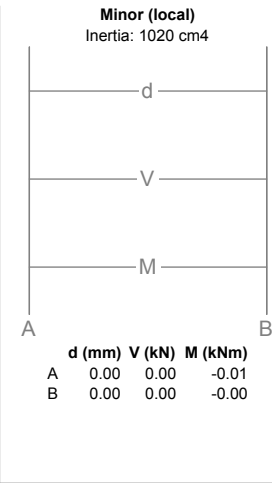
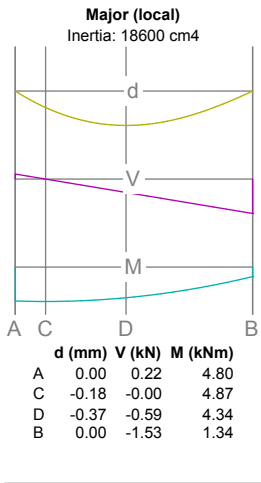
**Member # 25 (Nodes 12 - 15)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 6.000 ) m  
B ( 15.000, 6.750, 12.000 ) m

**Global deflections**  
A ( -0.00, -3.66, 0.00 ) mm  
0.00, 0.00, 0.00 ) mrad  
B ( 0.53, -1.97, 0.02 ) mm  
0.03, -0.01, 0.53 ) mrad



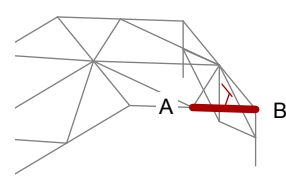
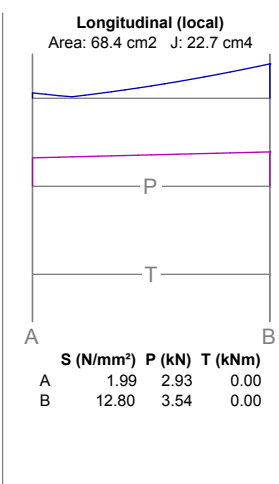
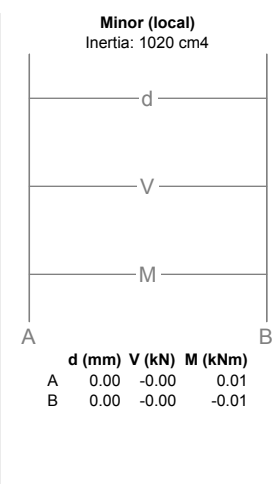
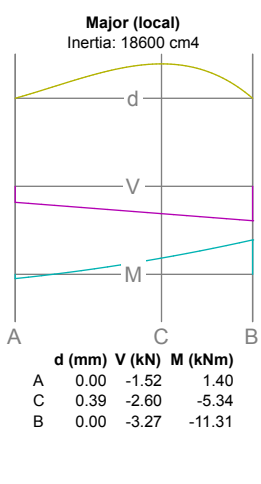
**Member # 26 (Nodes 12 - 22)**  
406 x 178 x 54 UB (British) : L = 10.595 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 6.000 ) m  
B ( 20.000, 5.000, 6.000 ) m

**Global deflections**  
A ( -0.00, -3.66, 0.00 ) mm  
0.00, 0.00, 0.00 ) mrad  
B ( 1.23, -0.01, -0.00 ) mm  
-0.00, 0.00, -0.00 ) mrad



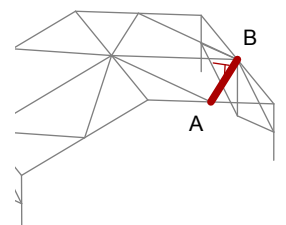
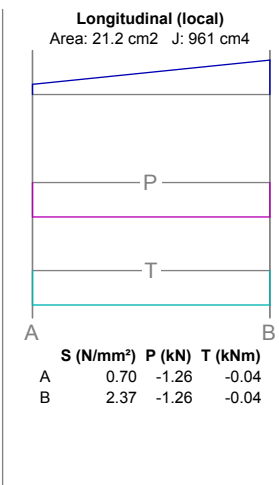
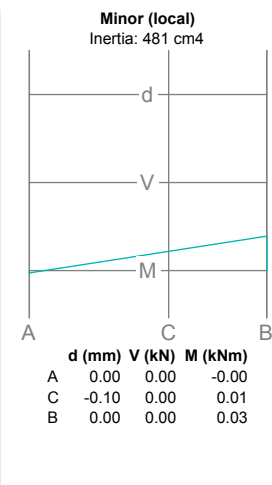
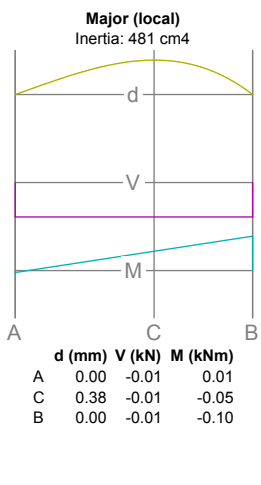
**Member # 27 (Nodes 13 - 15)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 10.000, 8.500, 12.000 ) m  
B ( 15.000, 6.750, 12.000 ) m

**Global deflections**  
A ( 0.00, -3.50, -0.00 ) mm  
-0.03, 0.00, -0.00 ) mrad  
B ( 0.53, -1.97, 0.02 ) mm  
0.03, -0.01, 0.53 ) mrad



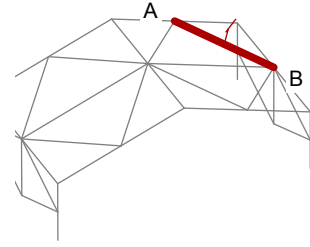
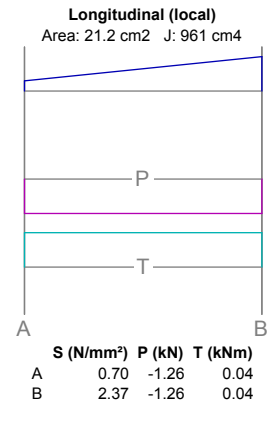
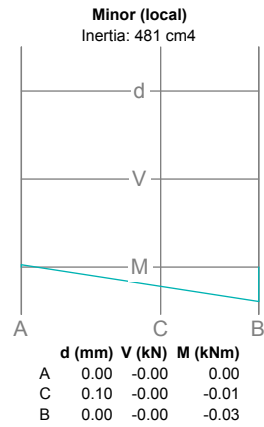
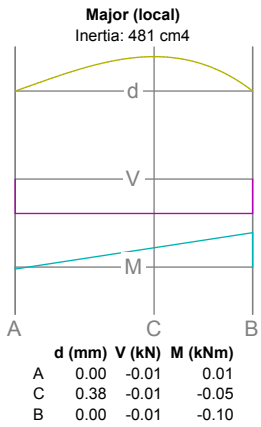
**Member # 28 (Nodes 14 - 21)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 15.000, 6.750, 0.000 ) m  
B ( 20.000, 5.000, 0.000 ) m

**Global deflections**  
A ( 0.53, -1.97, -0.02 ) mm  
-0.03, 0.01, 0.53 ) mrad  
B ( 1.21, -0.01, -0.00 ) mm  
0.00, -0.00, -0.05 ) mrad



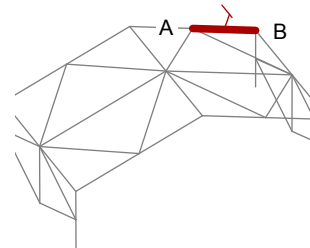
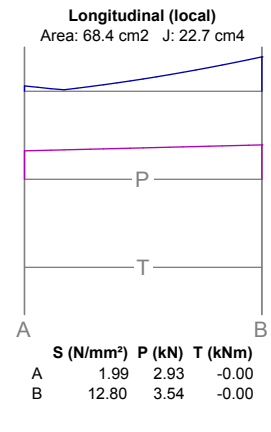
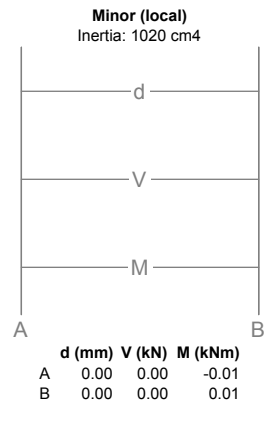
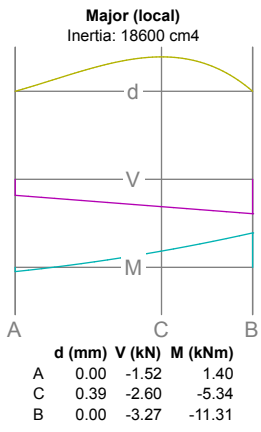
**Member # 29 (Nodes 14 - 22)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 15.000, 6.750, 0.000 ) m  
B ( 20.000, 5.000, 6.000 ) m

**Global deflections**  
A ( 0.53, -1.97, -0.02 ) mm  
-0.03, 0.01, 0.53 ) mrad  
B ( 1.23, -0.01, -0.00 ) mm  
-0.00, 0.00, -0.00 ) mrad



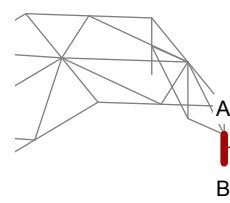
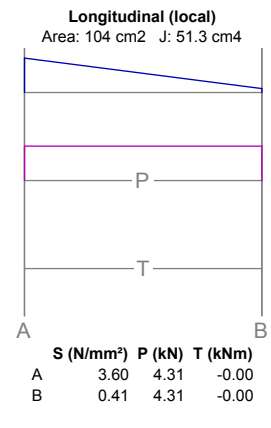
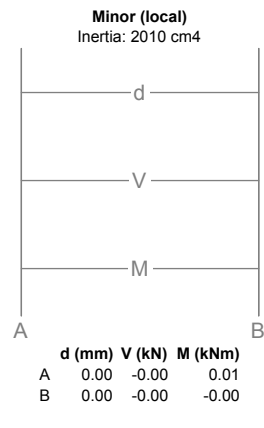
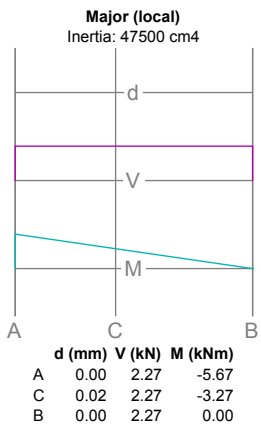
**Member # 30 (Nodes 15 - 22)**  
139.7 x 5.0 CHS (British) : L = 8.004 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 15.000, 6.750, 12.000 ) m  
B ( 20.000, 5.000, 6.000 ) m

**Global deflections**  
A ( 0.53, -1.97, 0.02 ) mm  
0.03, -0.01, 0.53 ) mrad  
B ( 1.23, -0.01, -0.00 ) mm  
-0.00, 0.00, -0.00 ) mrad



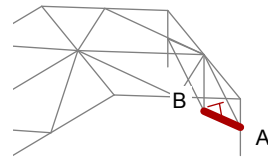
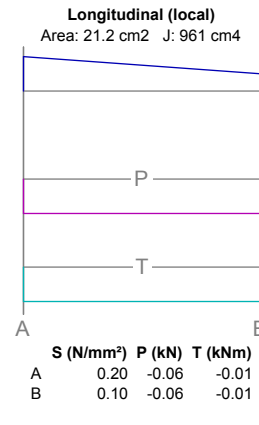
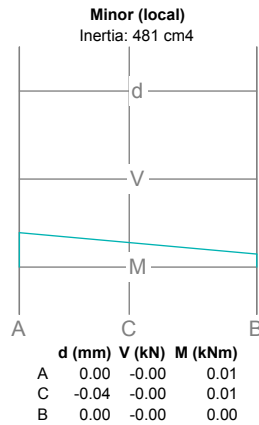
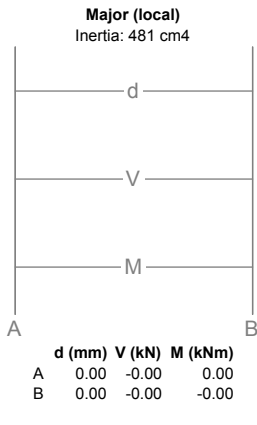
**Member # 31 (Nodes 15 - 23)**  
406 x 178 x 54 UB (British) : L = 5.297 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 15.000, 6.750, 12.000 ) m  
B ( 20.000, 5.000, 12.000 ) m

**Global deflections**  
A ( 0.53, -1.97, 0.02 ) mm  
0.03, -0.01, 0.53 ) mrad  
B ( 1.21, -0.01, 0.00 ) mm  
-0.00, 0.00, -0.05 ) mrad



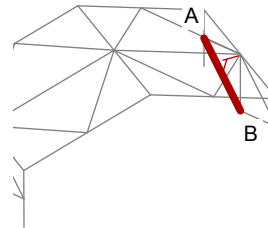
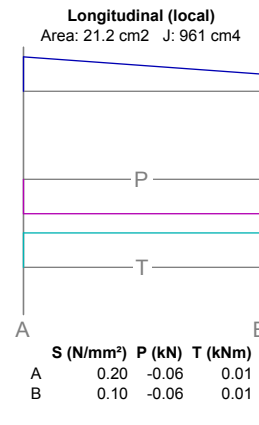
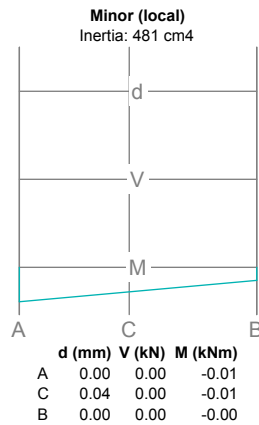
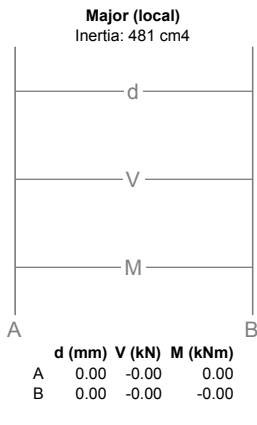
**Member # 32 (Nodes 19 - 16)**  
533 x 210 x 82 UB (British) : L = 2.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 2.500, 0.000 ) m  
B ( 20.000, 0.000, 0.000 ) m

**Global deflections**  
A ( 0.78, -0.01, -0.00 ) mm  
0.00, 0.01, -0.27 ) mrad  
B ( 0.00, 0.00, 0.00 ) mm  
-0.00, 0.01, -0.34 ) mrad



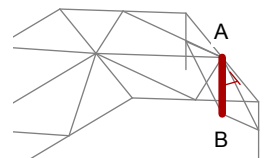
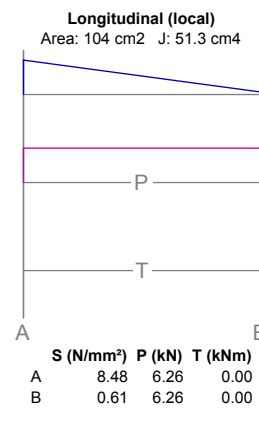
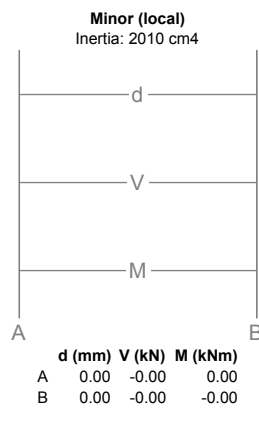
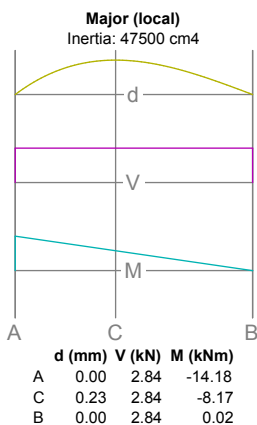
**Member # 33 (Nodes 19 - 17)**  
139.7 x 5.0 CHS (British) : L = 6.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 2.500, 0.000 ) m  
B ( 20.000, 0.000, 6.000 ) m

**Global deflections**  
A ( 0.78, -0.01, -0.00 ) mm  
0.00, 0.01, -0.27 ) mrad  
B ( 0.00, 0.00, 0.00 ) mm  
-0.00, 0.00, -0.37 ) mrad



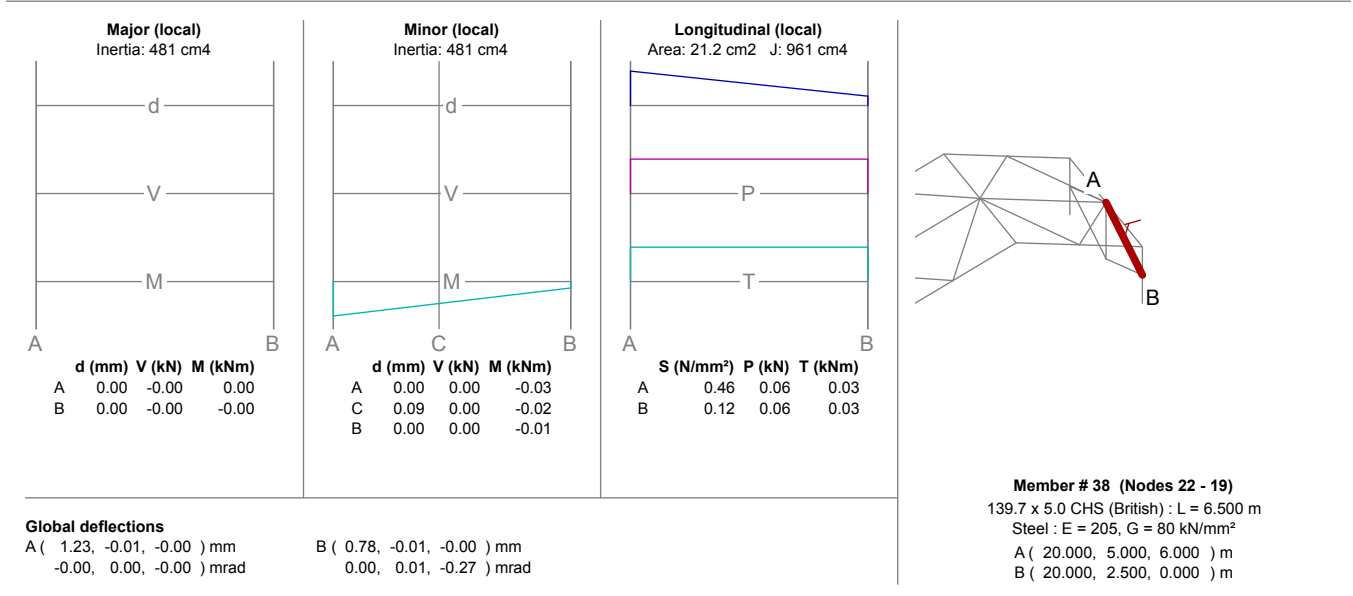
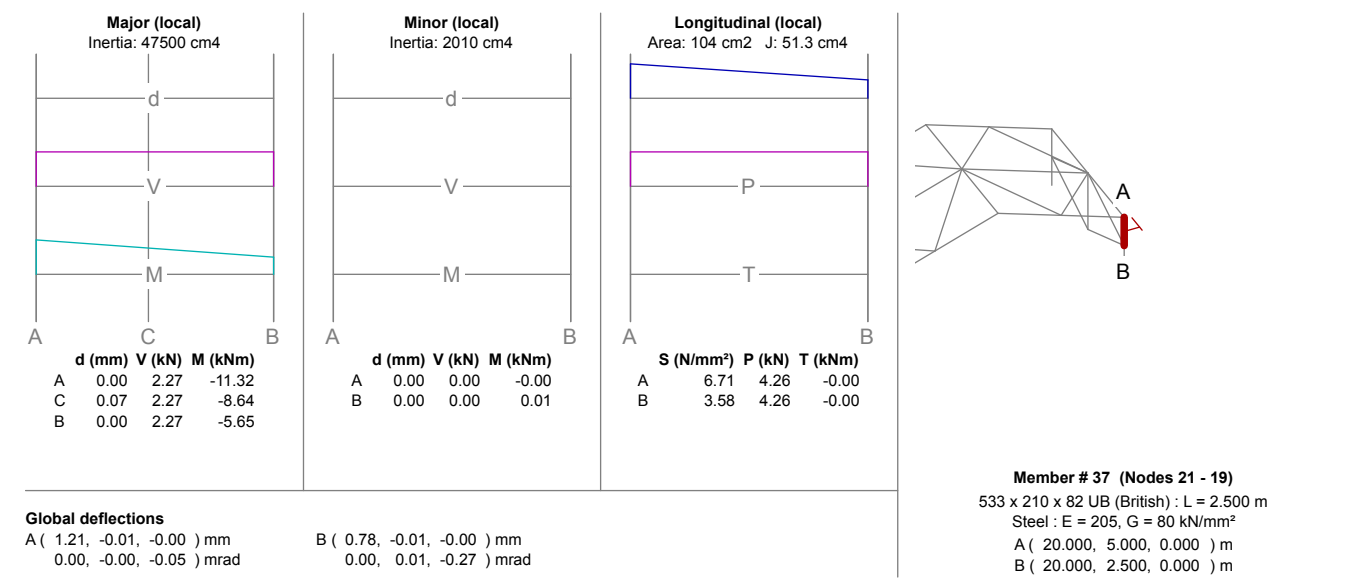
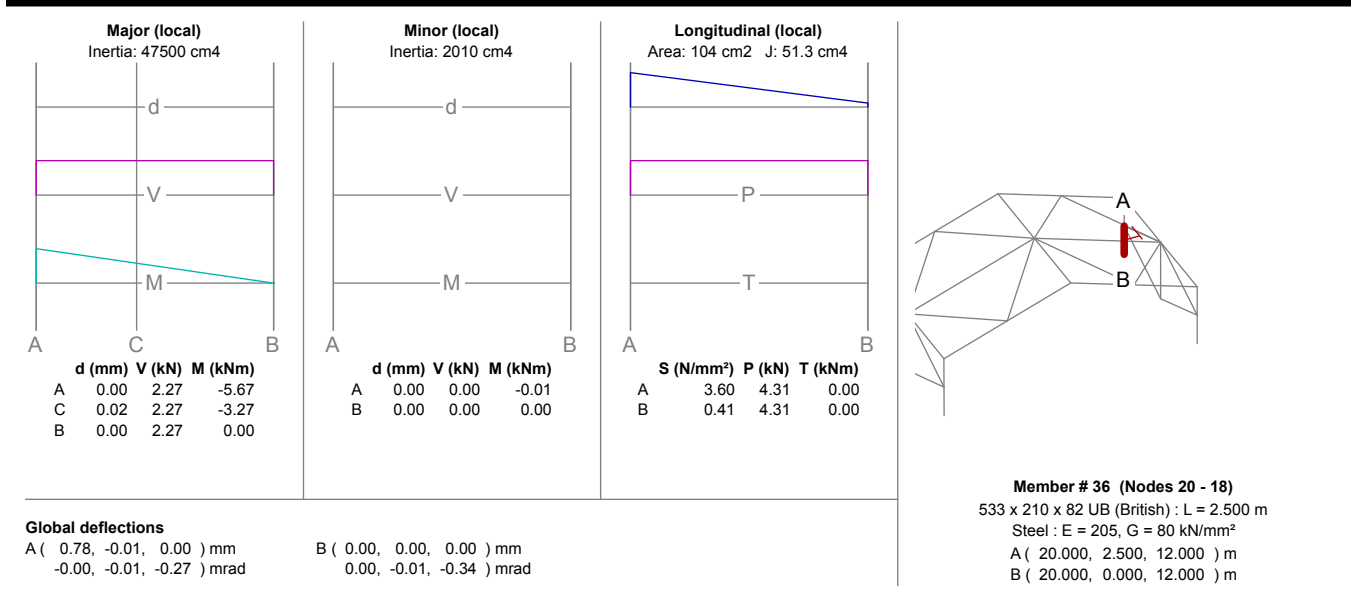
**Member # 34 (Nodes 20 - 17)**  
139.7 x 5.0 CHS (British) : L = 6.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 2.500, 12.000 ) m  
B ( 20.000, 0.000, 6.000 ) m

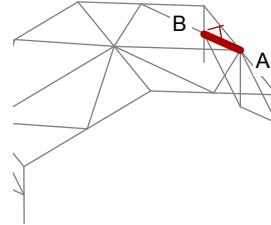
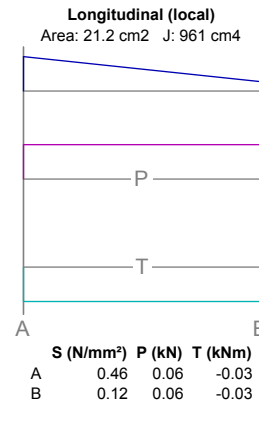
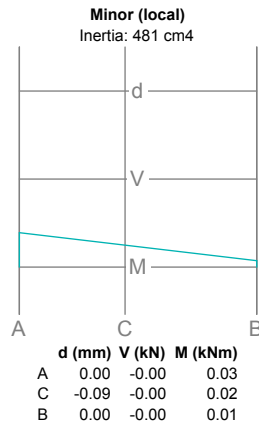
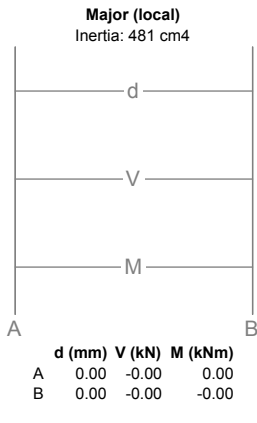
**Global deflections**  
A ( 0.78, -0.01, 0.00 ) mm  
-0.00, -0.01, -0.27 ) mrad  
B ( 0.00, 0.00, 0.00 ) mm  
-0.00, 0.00, -0.37 ) mrad



**Member # 35 (Nodes 22 - 17)**  
533 x 210 x 82 UB (British) : L = 5.000 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 5.000, 6.000 ) m  
B ( 20.000, 0.000, 6.000 ) m

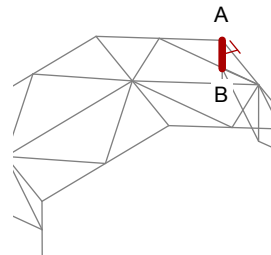
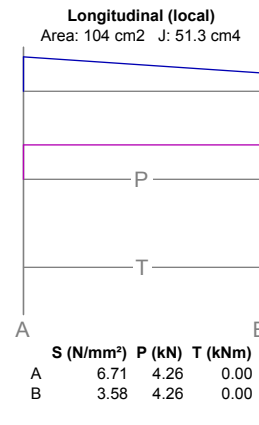
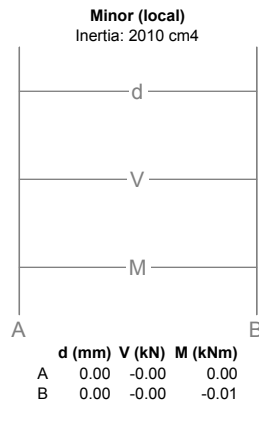
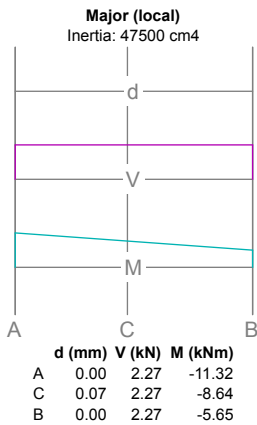
**Global deflections**  
A ( 1.23, -0.01, -0.00 ) mm  
-0.00, 0.00, -0.00 ) mrad  
B ( 0.00, 0.00, 0.00 ) mm  
-0.00, 0.00, -0.37 ) mrad





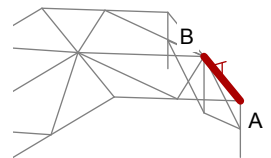
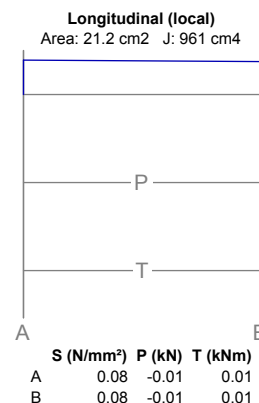
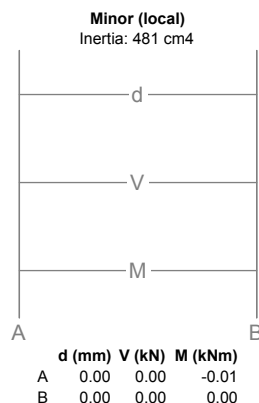
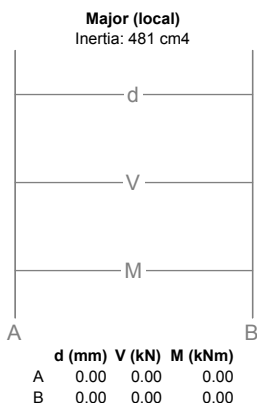
**Member # 39 (Nodes 22 - 20)**  
139.7 x 5.0 CHS (British) : L = 6.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 5.000, 6.000 ) m  
B ( 20.000, 2.500, 12.000 ) m

**Global deflections**  
A ( 1.23, -0.01, -0.00 ) mm  
-0.00, 0.00, -0.00 ) mrad  
B ( 0.78, -0.01, 0.00 ) mm  
-0.00, -0.01, -0.27 ) mrad



**Member # 40 (Nodes 23 - 20)**  
533 x 210 x 82 UB (British) : L = 2.500 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 5.000, 12.000 ) m  
B ( 20.000, 2.500, 12.000 ) m

**Global deflections**  
A ( 1.21, -0.01, 0.00 ) mm  
-0.00, 0.00, -0.05 ) mrad  
B ( 0.78, -0.01, 0.00 ) mm  
-0.00, -0.01, -0.27 ) mrad



**Member # 41 (Nodes 21 - 22)**  
139.7 x 5.0 CHS (British) : L = 6.000 m  
Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
A ( 20.000, 5.000, 0.000 ) m  
B ( 20.000, 5.000, 6.000 ) m

**Global deflections**  
A ( 1.21, -0.01, -0.00 ) mm  
0.00, -0.00, -0.05 ) mrad  
B ( 1.23, -0.01, -0.00 ) mm  
-0.00, 0.00, -0.00 ) mrad



**Major (local)**  
Inertia: 481 cm<sup>4</sup>

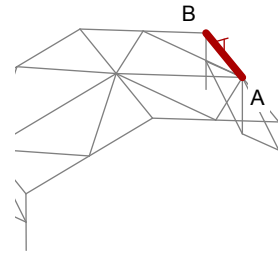
	d (mm)	V (kN)	M (kNm)
A	0.00	-0.00	0.00
B	0.00	-0.00	0.00

**Minor (local)**  
Inertia: 481 cm<sup>4</sup>

	d (mm)	V (kN)	M (kNm)
A	0.00	-0.00	0.00
B	0.00	-0.00	-0.01

**Longitudinal (local)**  
Area: 21.2 cm<sup>2</sup> J: 961 cm<sup>4</sup>

	S (N/mm <sup>2</sup> )	P (kN)	T (kNm)
A	0.08	-0.01	-0.01
B	0.08	-0.01	-0.01



**Member # 42 (Nodes 22 - 23)**  
 139.7 x 5.0 CHS (British) : L = 6.000 m  
 Steel : E = 205, G = 80 kN/mm<sup>2</sup>  
 A ( 20.000, 5.000, 6.000 ) m  
 B ( 20.000, 5.000, 12.000 ) m

**Global deflections**

Node	d (mm)	V (kN)	M (kNm)
A	( 1.23, -0.01, -0.00 )		
B	( 1.21, -0.01, 0.00 )		

Node	d (mm)	V (kN)	M (kNm)
A	( -0.00, 0.00, -0.00 )		
B	( -0.00, 0.00, -0.05 )		