

# BISAR 3.0 - Block Report

## KR5 Flexible

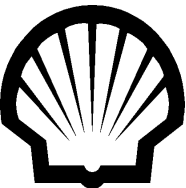
### System 1: (untitled)

#### Structure

#### Loads

Layer Number	Thickness (m)	Modulus of Elasticity (MPa)	Poisson's Ratio	Load Number	Vertical		Horizontal (Shear)		Radius (m)	X-Coord (m)	Y-Coord (m)	Shear Angle (Degrees)
					Load (kN)	Stress (MPa)	Load (kN)	Stress (MPa)				
1	0.050	1.030E+04	0.30	1	5.750E+01	7.000E-01	0.000E+00	0.000E+00	1.617E-01	0.000E+00	0.000E+00	0.000E+00
2	0.080	1.010E+04	0.30									
3	0.140	9.600E+03	0.30									
4	0.200	4.000E+02	0.30									
5		1.000E+02	0.35									

Position Number	Layer Number	X-Coord (m)	Y-Coord (m)	Depth (m)	Stresses			Strains			Displacements		
					XX (MPa)	YY (MPa)	ZZ (MPa)	XX $\mu$ strain	YY $\mu$ strain	ZZ $\mu$ strain	UX ( $\mu$ m)	UY ( $\mu$ m)	UZ ( $\mu$ m)
1	1	0.000E+00	0.000E+00	0.000E+00	-1.208E+00	-1.208E+00	-7.000E-01	-6.173E+01	-6.173E+01	2.425E+00	0.000E+00	0.000E+00	2.566E+02
2	1	0.000E+00	0.000E+00	1.000E-03	-1.196E+00	-1.196E+00	-7.000E-01	-6.092E+01	-6.092E+01	1.734E+00	0.000E+00	0.000E+00	2.566E+02
3	1	0.000E+00	0.000E+00	2.000E-03	-1.185E+00	-1.185E+00	-6.999E-01	-6.012E+01	-6.012E+01	1.048E+00	0.000E+00	0.000E+00	2.566E+02
4	1	0.000E+00	0.000E+00	3.000E-03	-1.173E+00	-1.173E+00	-6.999E-01	-5.932E+01	-5.932E+01	3.651E-01	0.000E+00	0.000E+00	2.566E+02
5	1	0.000E+00	0.000E+00	4.000E-03	-1.161E+00	-1.161E+00	-6.998E-01	-5.852E+01	-5.852E+01	-3.128E-01	0.000E+00	0.000E+00	2.566E+02
6	1	0.000E+00	0.000E+00	5.000E-03	-1.149E+00	-1.149E+00	-6.997E-01	-5.772E+01	-5.772E+01	-9.862E-01	0.000E+00	0.000E+00	2.566E+02
7	1	0.000E+00	0.000E+00	6.000E-03	-1.137E+00	-1.137E+00	-6.995E-01	-5.693E+01	-5.693E+01	-1.655E+00	0.000E+00	0.000E+00	2.566E+02



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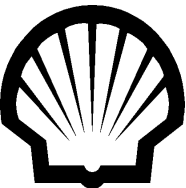
### System 2: (untitled)

#### Structure

#### Loads

Layer Number	Thickness (m)	Modulus of Elasticity (MPa)	Poisson's Ratio	Load Number	Vertical		Horizontal (Shear)		Radius (m)	X-Coord (m)	Y-Coord (m)	Shear Angle (Degrees)
					Load (kN)	Stress (MPa)	Load (kN)	Stress (MPa)				
1	0.050	1.030E+04	0.30	1	5.750E+01	7.000E-01	0.000E+00	0.000E+00	1.617E-01	0.000E+00	0.000E+00	0.000E+00
2	0.080	1.010E+04	0.30									
3	0.140	9.600E+03	0.30									
4	0.200	4.000E+02	0.30									
5		1.000E+02	0.35									

Position Number	Layer Number	X-Coord (m)	Y-Coord (m)	Depth (m)	Stresses			Strains			Displacements		
					XX (MPa)	YY (MPa)	ZZ (MPa)	XX $\mu$ strain	YY $\mu$ strain	ZZ $\mu$ strain	UX ( $\mu$ m)	UY ( $\mu$ m)	UZ ( $\mu$ m)
1	2	0.000E+00	0.000E+00	7.000E-02	-4.788E-01	-4.788E-01	-6.104E-01	-1.505E+01	-1.505E+01	-3.199E+01	0.000E+00	0.000E+00	2.554E+02
2	2	0.000E+00	0.000E+00	8.000E-02	-3.977E-01	-3.977E-01	-5.817E-01	-1.028E+01	-1.028E+01	-3.397E+01	0.000E+00	0.000E+00	2.551E+02
3	2	0.000E+00	0.000E+00	9.000E-02	-3.212E-01	-3.212E-01	-5.500E-01	-5.924E+00	-5.924E+00	-3.538E+01	0.000E+00	0.000E+00	2.547E+02
4	2	0.000E+00	0.000E+00	1.000E-01	-2.489E-01	-2.489E-01	-5.160E-01	-1.920E+00	-1.920E+00	-3.631E+01	0.000E+00	0.000E+00	2.544E+02
5	2	0.000E+00	0.000E+00	1.100E-01	-1.801E-01	-1.801E-01	-4.803E-01	1.787E+00	1.787E+00	-3.686E+01	0.000E+00	0.000E+00	2.540E+02
6	2	0.000E+00	0.000E+00	1.200E-01	-1.142E-01	-1.142E-01	-4.435E-01	5.257E+00	5.257E+00	-3.713E+01	0.000E+00	0.000E+00	2.536E+02
7	2	0.000E+00	0.000E+00	1.300E-01	-5.077E-02	-5.074E-02	-4.063E-01	8.548E+00	8.552E+00	-3.721E+01	0.000E+00	0.000E+00	2.532E+02
8	3	0.000E+00	0.000E+00	1.300E-01	-5.688E-02	-5.684E-02	-4.063E-01	8.548E+00	8.552E+00	-3.877E+01	0.000E+00	0.000E+00	2.532E+02



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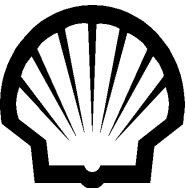
### System 3: (untitled)

#### Structure

#### Loads

Layer Number	Thickness (m)	Modulus of Elasticity (MPa)	Poisson's Ratio	Load Number	Vertical		Horizontal (Shear)		Radius (m)	X-Coord (m)	Y-Coord (m)	Shear Angle (Degrees)
					Load (kN)	Stress (MPa)	Load (kN)	Stress (MPa)				
1	0.050	1.030E+04	0.30	1	5.750E+01	7.000E-01	0.000E+00	0.000E+00	1.617E-01	0.000E+00	0.000E+00	0.000E+00
2	0.080	1.010E+04	0.30									
3	0.140	9.600E+03	0.30									
4	0.200	4.000E+02	0.30									
5		1.000E+02	0.35									

Position Number	Layer Number	X-Coord (m)	Y-Coord (m)	Depth (m)	Stresses			Strains			Displacements		
					XX (MPa)	YY (MPa)	ZZ (MPa)	XX $\mu$ strain	YY $\mu$ strain	ZZ $\mu$ strain	UX ( $\mu$ m)	UY ( $\mu$ m)	UZ ( $\mu$ m)
1	3	0.000E+00	0.000E+00	1.400E-01	-9.189E-04	-9.189E-04	-3.690E-01	1.146E+01	1.146E+01	-3.838E+01	0.000E+00	0.000E+00	2.529E+02
2	3	0.000E+00	0.000E+00	1.500E-01	5.378E-02	5.378E-02	-3.321E-01	1.430E+01	1.430E+01	-3.796E+01	0.000E+00	0.000E+00	2.525E+02
3	3	0.000E+00	0.000E+00	1.600E-01	1.078E-01	1.078E-01	-2.961E-01	1.712E+01	1.711E+01	-3.758E+01	0.000E+00	0.000E+00	2.521E+02
4	3	0.000E+00	0.000E+00	1.700E-01	1.615E-01	1.615E-01	-2.612E-01	1.994E+01	1.994E+01	-3.730E+01	0.000E+00	0.000E+00	2.517E+02
5	3	0.000E+00	0.000E+00	1.800E-01	2.156E-01	2.156E-01	-2.277E-01	2.283E+01	2.283E+01	-3.719E+01	0.000E+00	0.000E+00	2.514E+02
6	3	0.000E+00	0.000E+00	1.900E-01	2.704E-01	2.704E-01	-1.959E-01	2.584E+01	2.584E+01	-3.731E+01	0.000E+00	0.000E+00	2.510E+02
7	3	0.000E+00	0.000E+00	2.000E-01	3.265E-01	3.265E-01	-1.663E-01	2.900E+01	2.900E+01	-3.772E+01	0.000E+00	0.000E+00	2.506E+02
8	3	0.000E+00	0.000E+00	2.100E-01	3.844E-01	3.844E-01	-1.389E-01	3.237E+01	3.237E+01	-3.849E+01	0.000E+00	0.000E+00	2.502E+02



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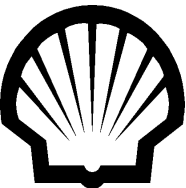
### System 4: (untitled)

#### Structure

#### Loads

Layer Number	Thickness (m)	Modulus of Elasticity (MPa)	Poisson's Ratio	Load Number	Vertical		Horizontal (Shear)		Radius (m)	X-Coord (m)	Y-Coord (m)	Shear Angle (Degrees)
					Load (kN)	Stress (MPa)	Load (kN)	Stress (MPa)				
1	0.050	1.030E+04	0.30	1	5.750E+01	7.000E-01	0.000E+00	0.000E+00	1.617E-01	0.000E+00	0.000E+00	0.000E+00
2	0.080	1.010E+04	0.30									
3	0.140	9.600E+03	0.30									
4	0.200	4.000E+02	0.30									
5		1.000E+02	0.35									

Position Number	Layer Number	X-Coord (m)	Y-Coord (m)	Depth (m)	Stresses			Strains			Displacements		
					XX (MPa)	YY (MPa)	ZZ (MPa)	XX $\mu$ strain	YY $\mu$ strain	ZZ $\mu$ strain	UX ( $\mu$ m)	UY ( $\mu$ m)	UZ ( $\mu$ m)
1	3	0.000E+00	0.000E+00	2.200E-01	4.445E-01	4.445E-01	-1.142E-01	3.598E+01	3.598E+01	-3.967E+01	0.000E+00	0.000E+00	2.498E+02
2	3	0.000E+00	0.000E+00	2.300E-01	5.076E-01	5.076E-01	-9.242E-02	3.990E+01	3.990E+01	-4.135E+01	0.000E+00	0.000E+00	2.494E+02
3	3	0.000E+00	0.000E+00	2.400E-01	5.741E-01	5.741E-01	-7.407E-02	4.418E+01	4.418E+01	-4.360E+01	0.000E+00	0.000E+00	2.490E+02
4	3	0.000E+00	0.000E+00	2.500E-01	6.447E-01	6.447E-01	-5.957E-02	4.887E+01	4.887E+01	-4.650E+01	0.000E+00	0.000E+00	2.486E+02
5	3	0.000E+00	0.000E+00	2.600E-01	7.201E-01	7.201E-01	-4.944E-02	5.405E+01	5.406E+01	-5.016E+01	0.000E+00	0.000E+00	2.481E+02
6	3	0.000E+00	0.000E+00	2.700E-01	8.011E-01	8.011E-01	-4.431E-02	5.980E+01	5.980E+01	-5.469E+01	0.000E+00	0.000E+00	2.476E+02
7	4	0.000E+00	0.000E+00	2.700E-01	1.518E-02	1.518E-02	-4.431E-02	5.980E+01	5.980E+01	-1.335E+02	0.000E+00	0.000E+00	2.476E+02
8	4	0.000E+00	0.000E+00	2.800E-01	1.542E-02	1.542E-02	-4.198E-02	5.847E+01	5.847E+01	-1.281E+02	0.000E+00	0.000E+00	2.462E+02



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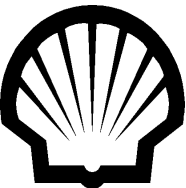
### System 5: (untitled)

#### Structure

#### Loads

Layer Number	Thickness (m)	Modulus of Elasticity (MPa)	Poisson's Ratio	Load Number	Vertical		Horizontal (Shear)		Radius (m)	X-Coord (m)	Y-Coord (m)	Shear Angle (Degrees)
					Load (kN)	Stress (MPa)	Load (kN)	Stress (MPa)				
1	0.050	1.030E+04	0.30	1	5.750E+01	7.000E-01	0.000E+00	0.000E+00	1.617E-01	0.000E+00	0.000E+00	0.000E+00
2	0.080	1.010E+04	0.30									
3	0.140	9.600E+03	0.30									
4	0.200	4.000E+02	0.30									
5		1.000E+02	0.35									

Position Number	Layer Number	X-Coord (m)	Y-Coord (m)	Depth (m)	Stresses			Strains			Displacements		
					XX (MPa)	YY (MPa)	ZZ (MPa)	XX $\mu$ strain	YY $\mu$ strain	ZZ $\mu$ strain	UX ( $\mu$ m)	UY ( $\mu$ m)	UZ ( $\mu$ m)
1	4	0.000E+00	0.000E+00	2.900E-01	1.571E-02	1.571E-02	-3.980E-02	5.734E+01	5.734E+01	-1.231E+02	0.000E+00	0.000E+00	2.450E+02
2	4	0.000E+00	0.000E+00	3.000E-01	1.605E-02	1.605E-02	-3.775E-02	5.640E+01	5.640E+01	-1.185E+02	0.000E+00	0.000E+00	2.438E+02
3	4	0.000E+00	0.000E+00	3.100E-01	1.645E-02	1.645E-02	-3.583E-02	5.566E+01	5.565E+01	-1.142E+02	0.000E+00	0.000E+00	2.426E+02
4	4	0.000E+00	0.000E+00	3.200E-01	1.689E-02	1.689E-02	-3.403E-02	5.509E+01	5.508E+01	-1.104E+02	0.000E+00	0.000E+00	2.415E+02
5	4	0.000E+00	0.000E+00	3.300E-01	1.739E-02	1.739E-02	-3.234E-02	5.468E+01	5.468E+01	-1.069E+02	0.000E+00	0.000E+00	2.404E+02
6	4	0.000E+00	0.000E+00	3.400E-01	1.794E-02	1.794E-02	-3.075E-02	5.445E+01	5.445E+01	-1.038E+02	0.000E+00	0.000E+00	2.394E+02
7	4	0.000E+00	0.000E+00	3.500E-01	1.854E-02	1.854E-02	-2.927E-02	5.439E+01	5.439E+01	-1.010E+02	0.000E+00	0.000E+00	2.383E+02



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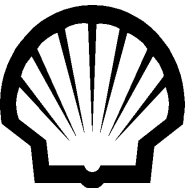
### System 6: (untitled)

#### Structure

#### Loads

Layer Number	Thickness (m)	Modulus of Elasticity (MPa)	Poisson's Ratio	Load Number	Vertical		Horizontal (Shear)		Radius (m)	X-Coord (m)	Y-Coord (m)	Shear Angle (Degrees)
					Load (kN)	Stress (MPa)	Load (kN)	Stress (MPa)				
1	0.050	1.030E+04	0.30	1	5.750E+01	7.000E-01	0.000E+00	0.000E+00	1.617E-01	0.000E+00	0.000E+00	0.000E+00
2	0.080	1.010E+04	0.30									
3	0.140	9.600E+03	0.30									
4	0.200	4.000E+02	0.30									
5		1.000E+02	0.35									

Position Number	Layer Number	X-Coord (m)	Y-Coord (m)	Depth (m)	Stresses			Strains			Displacements		
					XX (MPa)	YY (MPa)	ZZ (MPa)	XX $\mu$ strain	YY $\mu$ strain	ZZ $\mu$ strain	UX ( $\mu$ m)	UY ( $\mu$ m)	UZ ( $\mu$ m)
1	4	0.000E+00	0.000E+00	3.600E-01	1.919E-02	1.919E-02	-2.788E-02	5.449E+01	5.449E+01	-9.847E+01	0.000E+00	0.000E+00	2.373E+02
2	4	0.000E+00	0.000E+00	3.700E-01	1.990E-02	1.990E-02	-2.658E-02	5.475E+01	5.475E+01	-9.628E+01	0.000E+00	0.000E+00	2.364E+02
3	4	0.000E+00	0.000E+00	3.800E-01	2.066E-02	2.066E-02	-2.536E-02	5.517E+01	5.517E+01	-9.439E+01	0.000E+00	0.000E+00	2.354E+02
4	4	0.000E+00	0.000E+00	3.900E-01	2.148E-02	2.148E-02	-2.424E-02	5.577E+01	5.577E+01	-9.281E+01	0.000E+00	0.000E+00	2.345E+02
5	4	0.000E+00	0.000E+00	4.000E-01	2.236E-02	2.236E-02	-2.319E-02	5.653E+01	5.653E+01	-9.152E+01	0.000E+00	0.000E+00	2.336E+02
6	4	0.000E+00	0.000E+00	4.100E-01	2.331E-02	2.331E-02	-2.223E-02	5.746E+01	5.746E+01	-9.054E+01	0.000E+00	0.000E+00	2.326E+02
7	4	0.000E+00	0.000E+00	4.200E-01	2.432E-02	2.432E-02	-2.135E-02	5.858E+01	5.858E+01	-8.986E+01	0.000E+00	0.000E+00	2.317E+02
8	4	0.000E+00	0.000E+00	4.300E-01	2.541E-02	2.541E-02	-2.056E-02	5.988E+01	5.988E+01	-8.950E+01	0.000E+00	0.000E+00	2.308E+02



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## KR5 Flexible

### System 7: (untitled)

#### Structure

#### Loads

Layer Number	Thickness (m)	Modulus of Elasticity (MPa)	Poisson's Ratio	Load Number	Vertical		Horizontal (Shear)		Radius (m)	X-Coord (m)	Y-Coord (m)	Shear Angle (Degrees)
					Load (kN)	Stress (MPa)	Load (kN)	Stress (MPa)				
1	0.050	1.030E+04	0.30	1	5.750E+01	7.000E-01	0.000E+00	0.000E+00	1.617E-01	0.000E+00	0.000E+00	0.000E+00
2	0.080	1.010E+04	0.30									
3	0.140	9.600E+03	0.30									
4	0.200	4.000E+02	0.30									
5		1.000E+02	0.35									

Position Number	Layer Number	X-Coord (m)	Y-Coord (m)	Depth (m)	Stresses			Strains			Displacements		
					XX (MPa)	YY (MPa)	ZZ (MPa)	XX $\mu$ strain	YY $\mu$ strain	ZZ $\mu$ strain	UX ( $\mu$ m)	UY ( $\mu$ m)	UZ ( $\mu$ m)
1	4	0.000E+00	0.000E+00	4.400E-01	2.657E-02	2.657E-02	-1.985E-02	6.138E+01	6.138E+01	-8.947E+01	0.000E+00	0.000E+00	2.299E+02
2	4	0.000E+00	0.000E+00	4.500E-01	2.781E-02	2.781E-02	-1.923E-02	6.309E+01	6.309E+01	-8.979E+01	0.000E+00	0.000E+00	2.291E+02
3	4	0.000E+00	0.000E+00	4.600E-01	2.914E-02	2.914E-02	-1.870E-02	6.502E+01	6.502E+01	-9.046E+01	0.000E+00	0.000E+00	2.282E+02
4	4	0.000E+00	0.000E+00	4.700E-01	3.056E-02	3.056E-02	-1.827E-02	6.719E+01	6.719E+01	-9.152E+01	0.000E+00	0.000E+00	2.272E+02
5	5	0.000E+00	0.000E+00	4.710E-01	4.953E-04	4.953E-04	-1.823E-02	6.703E+01	6.703E+01	-1.858E+02	0.000E+00	0.000E+00	2.271E+02
6	5	0.000E+00	0.000E+00	4.800E-01	4.571E-04	4.571E-04	-1.789E-02	6.560E+01	6.560E+01	-1.821E+02	0.000E+00	0.000E+00	2.254E+02
7	5	0.000E+00	0.000E+00	4.900E-01	4.180E-04	4.180E-04	-1.754E-02	6.409E+01	6.409E+01	-1.783E+02	0.000E+00	0.000E+00	2.236E+02