

Project: KR6 - ALK=0

Wyniki obliczeń dla nawierzchni KR6.

System: 1: KR6-ALK=0

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,07E+00       | -1,07E+00       | -7,00E-01       | -52,6                  | -5,26E+01              | -5,40E+00              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,11E-01       | -6,11E-01       | -6,65E-01       | -22,17                 | -2,22E+01              | -2,90E+01              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,05E-01       | -6,05E-01       | -6,65E-01       | -22,17                 | -2,22E+01              | -2,99E+01              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,13E-01       | -1,13E-01       | -4,45E-01       | 5,416                  | 5,42E+00               | -3,74E+01              | 0,00E+00                   | 0,00E+00                   | 2,26E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,16E-01       | -1,16E-01       | -4,45E-01       | 5,416                  | 5,42E+00               | -3,91E+01              | 0,00E+00                   | 0,00E+00                   | 2,26E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 6,51E-01        | 6,51E-01        | -3,39E-02       | 48,55                  | 4,86E+01               | -4,42E+01              | 0,00E+00                   | 0,00E+00                   | 2,20E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,32E-02        | 1,32E-02        | -3,39E-02       | 48,55                  | 4,86E+01               | -1,05E+02              | 0,00E+00                   | 0,00E+00                   | 2,20E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 3,78E-04        | 3,75E-04        | -1,47E-02       | 54,03                  | 5,40E+01               | -1,50E+02              | 0,00E+00                   | 0,00E+00                   | 2,03E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 6,42E+10 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudowy 15851569 [osi 115 kN]

Project: KR6 -50% na wszystkich głębokościach

System: 1: KR6- VII - 50%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 2,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 2,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 2,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -9,17E-01       | -9,17E-01       | -7,00E-01       | -4,19E+01              | -4,19E+01              | -1,46E+01              | 0,00E+00                   | 0,00E+00                   | 2,79E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | 5,85E-02        | 5,85E-02        | -6,99E-01       | 2,43E+01               | 2,43E+01               | -7,13E+01              | 0,00E+00                   | 0,00E+00                   | 2,77E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -9,61E-01       | -9,61E-01       | -6,99E-01       | -4,58E+01              | -4,58E+01              | -1,22E+01              | 0,00E+00                   | 0,00E+00                   | 2,77E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 4,47E-01        | 4,47E-01        | -6,14E-01       | 4,92E+01               | 4,92E+01               | -8,73E+01              | 0,00E+00                   | 0,00E+00                   | 2,73E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,05E+00       | -1,05E+00       | -6,14E-01       | -5,74E+01              | -5,74E+01              | 1,72E+00               | 0,00E+00                   | 0,00E+00                   | 2,73E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,08E+00        | 1,08E+00        | -5,99E-02       | 8,07E+01               | 8,07E+01               | -7,38E+01              | 0,00E+00                   | 0,00E+00                   | 2,67E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 2,15E-04        | 2,18E-04        | -5,99E-02       | 4,53E+01               | 4,53E+01               | -1,50E+02              | 0,00E+00                   | 0,00E+00                   | 2,67E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 2,22E-04        | 2,25E-04        | -2,37E-02       | 8,42E+01               | 8,43E+01               | -2,38E+02              | 0,00E+00                   | 0,00E+00                   | 2,42E+02                   |

Trwałość zmęczeniowa warstwy ścierniczej 2,372E+09 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 45072910 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 2980791,8 [osi 115 kN]

Project: KR6 -70% na wszystkich głębokościach

System: 1: KR6- VII - 70% Na wszystkich stykach

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 9,00E-02             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -9,81E-01       | -9,81E-01       | -7,00E-01       | -46,27                 | -4,63E+01              | -1,08E+01              | 0,00E+00                   | 0,00E+00                   | 2,53E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -2,16E-01       | -2,16E-01       | -6,87E-01       | 5,349                  | 5,35E+00               | -5,41E+01              | 0,00E+00                   | 0,00E+00                   | 2,51E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -8,33E-01       | -8,33E-01       | -6,87E-01       | -37,28                 | -3,73E+01              | -1,86E+01              | 0,00E+00                   | 0,00E+00                   | 2,51E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 2,22E-01        | 2,22E-01        | -5,60E-01       | 32,04                  | 3,20E+01               | -6,87E+01              | 0,00E+00                   | 0,00E+00                   | 2,48E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -6,80E-01       | -6,80E-01       | -5,60E-01       | -32,09                 | -3,21E+01              | -1,58E+01              | 0,00E+00                   | 0,00E+00                   | 2,48E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 9,06E-01        | 9,06E-01        | -5,05E-02       | 67,63                  | 6,76E+01               | -6,19E+01              | 0,00E+00                   | 0,00E+00                   | 2,41E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,07E-02        | 1,07E-02        | -5,05E-02       | 56,67                  | 5,67E+01               | -1,42E+02              | 0,00E+00                   | 0,00E+00                   | 2,41E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 6,57E-04        | 6,57E-04        | -1,90E-02       | 70,61                  | 7,06E+01               | -1,94E+02              | 0,00E+00                   | 0,00E+00                   | 2,20E+02                   |

Trwałość zmęczeniowa warstwy ściernej 3,47384E+11 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 184900763,7 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudowy 5325155,612 [osi 115 kN]

Project: KR6 -90% na wszystkich głębokościach

System: 1: KR6- VII - 90% Na wszystkich stykach

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 9,00E-02             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,05E+00       | -1,05E+00       | -7,00E-01       | -50,61                 | -5,06E+01              | -7,10E+00              | 0,00E+00                   | 0,00E+00                   | 2,35E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,21E-01       | -5,21E-01       | -6,69E-01       | -15,91                 | -1,59E+01              | -3,46E+01              | 0,00E+00                   | 0,00E+00                   | 2,34E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,56E-01       | -6,56E-01       | -6,69E-01       | -25,59                 | -2,56E+01              | -2,73E+01              | 0,00E+00                   | 0,00E+00                   | 2,34E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,74E-02       | -2,74E-02       | -4,77E-01       | 12,26                  | 1,23E+01               | -4,56E+01              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,64E-01       | -2,64E-01       | -4,77E-01       | -4,336                 | -4,34E+00              | -3,32E+01              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 7,18E-01        | 7,18E-01        | -3,84E-02       | 53,57                  | 5,36E+01               | -4,89E+01              | 0,00E+00                   | 0,00E+00                   | 2,24E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,34E-02        | 1,34E-02        | -3,84E-02       | 52,29                  | 5,23E+01               | -1,16E+02              | 0,00E+00                   | 0,00E+00                   | 2,24E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 4,84E-04        | 4,84E-04        | -1,56E-02       | 57,76                  | 5,78E+01               | -1,59E+02              | 0,00E+00                   | 0,00E+00                   | 2,06E+02                   |

Trwałość zmęczeniowa warstwy ścieralnej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 4,36E+09 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 11466738 [osi 115 kN]

Project: KR6 -Całkowity brak szczepności

System: 1: KR6- VII - 0% Na wszystkich stykach

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 2,00E+02             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 2,00E+02             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 2,00E+02             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -7,86E-01       | -7,86E-01       | -7,00E-01       | -33,05                 | -3,31E+01              | -2,22E+01              | 0,00E+00                   | 0,00E+00                   | 3,92E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | 5,50E-01        | 5,50E-01        | -7,10E-01       | 58,04                  | 5,80E+01               | -1,01E+02              | 0,00E+00                   | 0,00E+00                   | 3,89E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,12E+00       | -1,12E+00       | -7,10E-01       | -56,34                 | -5,63E+01              | -3,91E+00              | 0,00E+00                   | 0,00E+00                   | 3,89E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 8,79E-01        | 8,79E-01        | -6,61E-01       | 80,58                  | 8,06E+01               | -1,18E+02              | 0,00E+00                   | 0,00E+00                   | 3,84E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,71E+00       | -1,71E+00       | -6,61E-01       | -104,3                 | -1,04E+02              | 3,82E+01               | 0,00E+00                   | 0,00E+00                   | 3,84E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,50E+00        | 1,50E+00        | -6,75E-02       | 111,2                  | 1,11E+02               | -1,01E+02              | 0,00E+00                   | 0,00E+00                   | 3,78E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | -8,16E-02       | -8,16E-02       | -6,75E-02       | -92,16                 | -9,22E+01              | -4,63E+01              | 0,00E+00                   | 0,00E+00                   | 3,78E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -9,84E-03       | -9,84E-03       | -4,00E-02       | 76,17                  | 7,62E+01               | -3,32E+02              | 0,00E+00                   | 0,00E+00                   | 3,58E+02                   |

Trwałość zmęczeniowa warstwy ściernalnej 135871291 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 8887483,8 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 1036549,8 [osi 115 kN]

Project: KR6 -VI - brak szczepności

System: 1: KR6- VI - 0%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 2,00E+02             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 2,00E+02             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -4,93E-01       | -4,93E-01       | -7,00E-01       | -13,11                 | -1,31E+01              | -3,93E+01              | 0,00E+00                   | 0,00E+00                   | 2,92E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | 2,43E-01        | 2,43E-01        | -7,21E-01       | 37,49                  | 3,75E+01               | -8,41E+01              | 0,00E+00                   | 0,00E+00                   | 2,89E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,32E+00       | -1,32E+00       | -7,21E-01       | -70,1                  | -7,01E+01              | 7,06E+00               | 0,00E+00                   | 0,00E+00                   | 2,89E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -3,89E-01       | -3,89E-01       | -5,73E-01       | -9,935                 | -9,93E+00              | -3,36E+01              | 0,00E+00                   | 0,00E+00                   | 2,88E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -3,82E-01       | -3,82E-01       | -5,73E-01       | -9,935                 | -9,93E+00              | -3,58E+01              | 0,00E+00                   | 0,00E+00                   | 2,88E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 9,89E-01        | 9,89E-01        | -3,69E-02       | 73,28                  | 7,33E+01               | -6,57E+01              | 0,00E+00                   | 0,00E+00                   | 2,80E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | -4,29E-02       | -4,29E-02       | -3,69E-02       | -47,42                 | -4,74E+01              | -2,78E+01              | 0,00E+00                   | 0,00E+00                   | 2,80E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -6,62E-03       | -6,62E-03       | -2,35E-02       | 39,13                  | 3,91E+01               | -1,88E+02              | 0,00E+00                   | 0,00E+00                   | 2,69E+02                   |

Trwałość zmęczeniowa warstwy ścieralnej 572530824 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 4089346,2 [osi 115 kN]

Project: KR6 -VI - 30%

System: 1: KR6- VI - 30%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 8,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 8,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -6,22E-01       | -6,22E-01       | -7,00E-01       | -21,89                 | -2,19E+01              | -3,17E+01              | 0,00E+00                   | 0,00E+00                   | 2,57E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | 5,49E-02        | 5,49E-02        | -7,17E-01       | 24,61                  | 2,46E+01               | -7,28E+01              | 0,00E+00                   | 0,00E+00                   | 2,55E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,18E+00       | -1,18E+00       | -7,17E-01       | -60,12                 | -6,01E+01              | -1,20E+00              | 0,00E+00                   | 0,00E+00                   | 2,55E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -3,32E-01       | -3,32E-01       | -5,66E-01       | -6,171                 | -6,17E+00              | -3,63E+01              | 0,00E+00                   | 0,00E+00                   | 2,53E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -3,27E-01       | -3,27E-01       | -5,66E-01       | -6,171                 | -6,17E+00              | -3,85E+01              | 0,00E+00                   | 0,00E+00                   | 2,53E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 8,75E-01        | 8,75E-01        | -3,88E-02       | 65,04                  | 6,50E+01               | -5,88E+01              | 0,00E+00                   | 0,00E+00                   | 2,45E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | -1,03E-02       | -1,03E-02       | -3,88E-02       | 11,09                  | 1,11E+01               | -8,15E+01              | 0,00E+00                   | 0,00E+00                   | 2,45E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -1,50E-03       | -1,50E-03       | -1,96E-02       | 58,77                  | 5,88E+01               | -1,85E+02              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |

Trwałość zmęczeniowa warstwy ścierniczej 2,29E+09 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudowy 6055415 [osi 115 kN]

Project: KR6 -VI - 50%

System: 1: KR6- VI - 50%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|--------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 2,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 2,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                 | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -7,47E-01       | -7,47E-01       | -7,00E-01       | -3,04E+01              | -3,04E+01              | -2,45E+01              | 0,00E+00                   | 0,00E+00                   | 2,44E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,28E-01       | -1,28E-01       | -7,09E-01       | 1,19E+01               | 1,19E+01               | -6,14E+01              | 0,00E+00                   | 0,00E+00                   | 2,42E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,03E+00       | -1,03E+00       | -7,09E-01       | -5,02E+01              | -5,02E+01              | -9,10E+00              | 0,00E+00                   | 0,00E+00                   | 2,42E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,71E-01       | -2,71E-01       | -5,49E-01       | -2,48E+00              | -2,48E+00              | -3,83E+01              | 0,00E+00                   | 0,00E+00                   | 2,39E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,70E-01       | -2,70E-01       | -5,49E-01       | -2,48E+00              | -2,48E+00              | -4,04E+01              | 0,00E+00                   | 0,00E+00                   | 2,39E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 8,00E-01        | 8,00E-01        | -3,92E-02       | 5,96E+01               | 5,96E+01               | -5,41E+01              | 0,00E+00                   | 0,00E+00                   | 2,32E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 4,49E-03        | 4,49E-03        | -3,92E-02       | 3,73E+01               | 3,73E+01               | -1,05E+02              | 0,00E+00                   | 0,00E+00                   | 2,32E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -7,00E-05       | -7,00E-05       | -1,73E-02       | 6,01E+01               | 6,01E+01               | -1,72E+02              | 0,00E+00                   | 0,00E+00                   | 2,15E+02                   |

Trwałość zmęczeniowa warstwy ściernej 2,486E+10 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 8081003,3 [osi 115 kN]

Project: KR6 -VI - 70%

System: 1: KR6- VI - 70%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 6,00E-01             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 6,00E-01             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -8,68E-01       | -8,68E-01       | -7,00E-01       | -38,59                 | -3,86E+01              | -1,74E+01              | 0,00E+00                   | 0,00E+00                   | 2,36E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -3,17E-01       | -3,17E-01       | -6,95E-01       | -1,317                 | -1,32E+00              | -4,90E+01              | 0,00E+00                   | 0,00E+00                   | 2,35E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -8,69E-01       | -8,69E-01       | -6,95E-01       | -39,6                  | -3,96E+01              | -1,72E+01              | 0,00E+00                   | 0,00E+00                   | 2,35E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,11E-01       | -2,11E-01       | -5,20E-01       | 0,7849                 | 7,85E-01               | -3,89E+01              | 0,00E+00                   | 0,00E+00                   | 2,32E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,12E-01       | -2,12E-01       | -5,20E-01       | 0,7849                 | 7,85E-01               | -4,09E+01              | 0,00E+00                   | 0,00E+00                   | 2,32E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 7,40E-01        | 7,40E-01        | -3,80E-02       | 55,12                  | 5,51E+01               | -5,02E+01              | 0,00E+00                   | 0,00E+00                   | 2,25E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,08E-02        | 1,08E-02        | -3,80E-02       | 47,36                  | 4,74E+01               | -1,11E+02              | 0,00E+00                   | 0,00E+00                   | 2,25E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 3,31E-04        | 3,28E-04        | -1,59E-02       | 57,86                  | 5,78E+01               | -1,61E+02              | 0,00E+00                   | 0,00E+00                   | 2,08E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 3,70117E+13 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudowy 10439325,06 [osi 115 kN]

Project: KR6 -VI - 90%

System: 1: KR6- VI - 90%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,01E+00       | -1,01E+00       | -7,00E-01       | -48,29                 | -4,83E+01              | -9,09E+00              | 0,00E+00                   | 0,00E+00                   | 2,31E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,41E-01       | -5,41E-01       | -6,72E-01       | -17,16                 | -1,72E+01              | -3,38E+01              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,69E-01       | -6,69E-01       | -6,72E-01       | -26,43                 | -2,64E+01              | -2,68E+01              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,41E-01       | -1,41E-01       | -4,67E-01       | 4,094                  | 4,09E+00               | -3,78E+01              | 0,00E+00                   | 0,00E+00                   | 2,27E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,44E-01       | -1,44E-01       | -4,67E-01       | 4,094                  | 4,09E+00               | -3,96E+01              | 0,00E+00                   | 0,00E+00                   | 2,27E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 6,76E-01        | 6,76E-01        | -3,52E-02       | 50,37                  | 5,04E+01               | -4,59E+01              | 0,00E+00                   | 0,00E+00                   | 2,21E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,31E-02        | 1,31E-02        | -3,52E-02       | 49,24                  | 4,92E+01               | -1,08E+02              | 0,00E+00                   | 0,00E+00                   | 2,21E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 3,92E-04        | 3,90E-04        | -1,50E-02       | 54,99                  | 5,50E+01               | -1,53E+02              | 0,00E+00                   | 0,00E+00                   | 2,04E+02                   |

Trwałość zmęczeniowa warstwy ścieralnej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 1,61E+11 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 14043428 [osi 115 kN]

Project: KR6 -V - brak szczepności

System: 1: KR6- V - 0%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 2,00E+02             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 2,00E+02             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,37E+00       | -1,37E+00       | -7,00E-01       | -72,35                 | -7,24E+01              | 1,15E+01               | 0,00E+00                   | 0,00E+00                   | 3,63E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -3,59E-01       | -3,59E-01       | -6,42E-01       | -5,716                 | -5,72E+00              | -4,14E+01              | 0,00E+00                   | 0,00E+00                   | 3,62E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -3,58E-01       | -3,57E-01       | -6,42E-01       | -5,718                 | -5,72E+00              | -4,23E+01              | 0,00E+00                   | 0,00E+00                   | 3,62E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 1,11E+00        | 1,11E+00        | -4,93E-01       | 91,65                  | 9,17E+01               | -1,15E+02              | 0,00E+00                   | 0,00E+00                   | 3,56E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,37E+00       | -1,37E+00       | -4,93E-01       | -84,41                 | -8,44E+01              | 3,43E+01               | 0,00E+00                   | 0,00E+00                   | 3,56E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,21E+00        | 1,21E+00        | -5,57E-02       | 89,77                  | 8,98E+01               | -8,13E+01              | 0,00E+00                   | 0,00E+00                   | 3,51E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | -6,77E-02       | -6,77E-02       | -5,57E-02       | -76,65                 | -7,67E+01              | -3,78E+01              | 0,00E+00                   | 0,00E+00                   | 3,51E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -9,13E-03       | -9,13E-03       | -3,48E-02       | 62,54                  | 6,26E+01               | -2,84E+02              | 0,00E+00                   | 0,00E+00                   | 3,34E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 5818282 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudowy 1958588 [osi 115 kN]

Project: KR6 -V - 30%

System: 1: KR6- V - 30%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                           |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 8,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 8,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                           |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,31E+00       | -1,31E+00       | -7,00E-01       | -68,62                 | -6,86E+01              | 8,33E+00               | 0,00E+00                   | 0,00E+00                   | 3,00E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -4,26E-01       | -4,26E-01       | -6,44E-01       | -10,19                 | -1,02E+01              | -3,77E+01              | 0,00E+00                   | 0,00E+00                   | 3,00E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -4,23E-01       | -4,23E-01       | -6,44E-01       | -10,19                 | -1,02E+01              | -3,86E+01              | 0,00E+00                   | 0,00E+00                   | 3,00E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 8,45E-01        | 8,45E-01        | -4,91E-01       | 73,15                  | 7,32E+01               | -9,88E+01              | 0,00E+00                   | 0,00E+00                   | 2,94E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,12E+00       | -1,12E+00       | -4,91E-01       | -66,05                 | -6,61E+01              | 1,86E+01               | 0,00E+00                   | 0,00E+00                   | 2,94E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,04E+00        | 1,04E+00        | -5,48E-02       | 77,73                  | 7,77E+01               | -7,09E+01              | 0,00E+00                   | 0,00E+00                   | 2,89E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | -2,08E-02       | -2,08E-02       | -5,48E-02       | 4,629                  | 4,64E+00               | -1,06E+02              | 0,00E+00                   | 0,00E+00                   | 2,89E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -2,12E-03       | -2,12E-03       | -2,70E-02       | 80,78                  | 8,08E+01               | -2,55E+02              | 0,00E+00                   | 0,00E+00                   | 2,67E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 12219217 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 3368167,8 [osi 115 kN]

Project: KR6 -V - 50%

System: 1: KR6- V - 50%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                           |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 2,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 2,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                           |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,26E+00       | -1,26E+00       | -7,00E-01       | -6,49E+01              | -6,49E+01              | 5,18E+00               | 0,00E+00                   | 0,00E+00                   | 2,66E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -4,92E-01       | -4,92E-01       | -6,47E-01       | -1,46E+01              | -1,46E+01              | -3,42E+01              | 0,00E+00                   | 0,00E+00                   | 2,66E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -4,87E-01       | -4,87E-01       | -6,47E-01       | -1,46E+01              | -1,46E+01              | -3,51E+01              | 0,00E+00                   | 0,00E+00                   | 2,65E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 5,74E-01        | 5,74E-01        | -4,84E-01       | 5,42E+01               | 5,42E+01               | -8,20E+01              | 0,00E+00                   | 0,00E+00                   | 2,61E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -8,36E-01       | -8,36E-01       | -4,84E-01       | -4,58E+01              | -4,58E+01              | 1,87E+00               | 0,00E+00                   | 0,00E+00                   | 2,61E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 9,17E-01        | 9,17E-01        | -5,09E-02       | 6,84E+01               | 6,84E+01               | -6,26E+01              | 0,00E+00                   | 0,00E+00                   | 2,55E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,02E-03        | 1,02E-03        | -5,09E-02       | 3,99E+01               | 3,99E+01               | -1,29E+02              | 0,00E+00                   | 0,00E+00                   | 2,55E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -2,80E-05       | -2,80E-05       | -2,15E-02       | 7,50E+01               | 7,50E+01               | -2,15E+02              | 0,00E+00                   | 0,00E+00                   | 2,34E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 32877608 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 5123003,6 [osi 115 kN]

Project: KR6 -V - 70%

System: 1: KR6- V - 70%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|--------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 6,00E-01             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 6,00E-01             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                 | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,19E+00       | -1,19E+00       | -7,00E-01       | -60,67                 | -6,07E+01              | 1,52E+00               | 0,00E+00                   | 0,00E+00                   | 2,46E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,46E-01       | -5,46E-01       | -6,52E-01       | -18,1                  | -1,81E+01              | -3,15E+01              | 0,00E+00                   | 0,00E+00                   | 2,45E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,41E-01       | -5,41E-01       | -6,52E-01       | -18,1                  | -1,81E+01              | -3,25E+01              | 0,00E+00                   | 0,00E+00                   | 2,45E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 3,07E-01        | 3,07E-01        | -4,71E-01       | 35,26                  | 3,53E+01               | -6,49E+01              | 0,00E+00                   | 0,00E+00                   | 2,42E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -5,55E-01       | -5,55E-01       | -4,71E-01       | -25,7                  | -2,57E+01              | -1,44E+01              | 0,00E+00                   | 0,00E+00                   | 2,42E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 8,07E-01        | 8,07E-01        | -4,47E-02       | 60,24                  | 6,02E+01               | -5,51E+01              | 0,00E+00                   | 0,00E+00                   | 2,36E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,00E-02        | 1,00E-02        | -4,47E-02       | 51,04                  | 5,10E+01               | -1,27E+02              | 0,00E+00                   | 0,00E+00                   | 2,36E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 4,62E-04        | 4,62E-04        | -1,79E-02       | 65,58                  | 6,56E+01               | -1,82E+02              | 0,00E+00                   | 0,00E+00                   | 2,16E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 1,35E+08 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 7793268 [osi 115 kN]

Project: KR6 -V - 90%

System: 1: KR6- V - 90%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|--------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                 | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,11E+00       | -1,11E+00       | -7,00E-01       | -54,99                 | -5,50E+01              | -3,35E+00              | 0,00E+00                   | 0,00E+00                   | 2,33E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,95E-01       | -5,95E-01       | -6,61E-01       | -21,19                 | -2,12E+01              | -2,95E+01              | 0,00E+00                   | 0,00E+00                   | 2,32E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,89E-01       | -5,89E-01       | -6,61E-01       | -21,19                 | -2,12E+01              | -3,05E+01              | 0,00E+00                   | 0,00E+00                   | 2,32E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 2,04E-03        | 2,05E-03        | -4,53E-01       | 13,6                   | 1,36E+01               | -4,50E+01              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,35E-01       | -2,35E-01       | -4,53E-01       | -3,002                 | -3,00E+00              | -3,25E+01              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 6,93E-01        | 6,93E-01        | -3,69E-02       | 51,67                  | 5,17E+01               | -4,72E+01              | 0,00E+00                   | 0,00E+00                   | 2,23E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,30E-02        | 1,30E-02        | -3,69E-02       | 50,48                  | 5,05E+01               | -1,12E+02              | 0,00E+00                   | 0,00E+00                   | 2,23E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 4,37E-04        | 4,34E-04        | -1,54E-02       | 56,68                  | 5,66E+01               | -1,57E+02              | 0,00E+00                   | 0,00E+00                   | 2,06E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 3,1E+09 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 12913776 [osi 115 kN]

Project: KR6 -IV - brak szczepności

System: 1: KR6- IV - 0%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                           |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 2,00E+02             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 2,00E+02             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                           |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -7,24E-01       | -7,24E-01       | -7,00E-01       | -28,78                 | -2,88E+01              | -2,58E+01              | 0,00E+00                   | 0,00E+00                   | 3,48E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | 4,89E-01        | 4,89E-01        | -7,11E-01       | 53,95                  | 5,40E+01               | -9,75E+01              | 0,00E+00                   | 0,00E+00                   | 3,45E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,02E+00       | -1,02E+00       | -7,11E-01       | -49,73                 | -4,97E+01              | -9,65E+00              | 0,00E+00                   | 0,00E+00                   | 3,45E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 7,83E-01        | 7,83E-01        | -6,67E-01       | 74,05                  | 7,41E+01               | -1,13E+02              | 0,00E+00                   | 0,00E+00                   | 3,40E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,58E+00       | -1,58E+00       | -6,67E-01       | -94,48                 | -9,45E+01              | 2,94E+01               | 0,00E+00                   | 0,00E+00                   | 3,40E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,21E+00        | 1,21E+00        | -8,28E-02       | 90,64                  | 9,06E+01               | -8,41E+01              | 0,00E+00                   | 0,00E+00                   | 3,35E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,63E-02        | 1,63E-02        | -8,28E-02       | 90,64                  | 9,06E+01               | -2,31E+02              | 0,00E+00                   | 0,00E+00                   | 3,35E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 8,14E-04        | 8,14E-04        | -3,14E-02       | 115                    | 1,15E+02               | -3,19E+02              | 0,00E+00                   | 0,00E+00                   | 3,00E+02                   |

Trwałość zmęczeniowa warstwy ściernej 1,73E+08 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 11737234 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 2031334 [osi 115 kN]

Project: KR6 -IV - 30%

System: 1: KR6- IV - 30%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                           |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 8,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 8,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                           |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -8,16E-01       | -8,16E-01       | -7,00E-01       | -35,05                 | -3,51E+01              | -2,04E+01              | 0,00E+00                   | 0,00E+00                   | 3,12E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | 3,03E-01        | 3,03E-01        | -7,07E-01       | 41,2                   | 4,12E+01               | -8,63E+01              | 0,00E+00                   | 0,00E+00                   | 3,09E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,02E+00       | -1,02E+00       | -7,07E-01       | -49,34                 | -4,93E+01              | -9,73E+00              | 0,00E+00                   | 0,00E+00                   | 3,09E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 6,35E-01        | 6,35E-01        | -6,50E-01       | 63,29                  | 6,33E+01               | -1,02E+02              | 0,00E+00                   | 0,00E+00                   | 3,04E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,36E+00       | -1,36E+00       | -6,50E-01       | -78,75                 | -7,88E+01              | 1,72E+01               | 0,00E+00                   | 0,00E+00                   | 3,04E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,16E+00        | 1,16E+00        | -7,51E-02       | 86,57                  | 8,66E+01               | -8,00E+01              | 0,00E+00                   | 0,00E+00                   | 2,98E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,73E-02        | 1,73E-02        | -7,51E-02       | 86,57                  | 8,66E+01               | -2,14E+02              | 0,00E+00                   | 0,00E+00                   | 2,98E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 1,22E-03        | 1,22E-03        | -2,73E-02       | 103,3                  | 1,03E+02               | -2,81E+02              | 0,00E+00                   | 0,00E+00                   | 2,67E+02                   |

Trwałość zmęczeniowa warstwy ściernalnej 419689255 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 19677909 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 2362897,4 [osi 115 kN]

Project: KR6 -IV - 50%

System: 1: KR6- IV - 50%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                           |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 2,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 2,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                           |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -9,06E-01       | -9,06E-01       | -7,00E-01       | -4,12E+01              | -4,12E+01              | -1,52E+01              | 0,00E+00                   | 0,00E+00                   | 2,77E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | 5,58E-02        | 5,58E-02        | -7,00E-01       | 2,42E+01               | 2,42E+01               | -7,12E+01              | 0,00E+00                   | 0,00E+00                   | 2,75E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -9,50E-01       | -9,50E-01       | -7,00E-01       | -4,50E+01              | -4,50E+01              | -1,29E+01              | 0,00E+00                   | 0,00E+00                   | 2,75E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 4,38E-01        | 4,38E-01        | -6,16E-01       | 4,86E+01               | 4,86E+01               | -8,70E+01              | 0,00E+00                   | 0,00E+00                   | 2,71E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,04E+00       | -1,04E+00       | -6,16E-01       | -5,65E+01              | -5,65E+01              | 7,66E-01               | 0,00E+00                   | 0,00E+00                   | 2,71E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,04E+00        | 1,04E+00        | -6,40E-02       | 7,80E+01               | 7,80E+01               | -7,18E+01              | 0,00E+00                   | 0,00E+00                   | 2,64E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,71E-02        | 1,71E-02        | -6,40E-02       | 7,79E+01               | 7,80E+01               | -1,86E+02              | 0,00E+00                   | 0,00E+00                   | 2,64E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 1,23E-03        | 1,23E-03        | -2,25E-02       | 8,67E+01               | 8,67E+01               | -2,34E+02              | 0,00E+00                   | 0,00E+00                   | 2,37E+02                   |

Trwałość zmęczeniowa warstwy ściernej 2,424E+09 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 46898476 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 3336984,4 [osi 115 kN]

Project: KR6 -IV - 70%

System: 1: KR6- IV - 70%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 6,00E-01             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 6,00E-01             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -9,77E-01       | -9,77E-01       | -7,00E-01       | -46,03                 | -4,60E+01              | -1,10E+01              | 0,00E+00                   | 0,00E+00                   | 2,53E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -2,15E-01       | -2,15E-01       | -6,87E-01       | 5,377                  | 5,38E+00               | -5,42E+01              | 0,00E+00                   | 0,00E+00                   | 2,51E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -8,30E-01       | -8,30E-01       | -6,87E-01       | -37,08                 | -3,71E+01              | -1,88E+01              | 0,00E+00                   | 0,00E+00                   | 2,51E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 2,21E-01        | 2,21E-01        | -5,61E-01       | 31,94                  | 3,19E+01               | -6,86E+01              | 0,00E+00                   | 0,00E+00                   | 2,47E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -6,78E-01       | -6,78E-01       | -5,61E-01       | -31,93                 | -3,19E+01              | -1,60E+01              | 0,00E+00                   | 0,00E+00                   | 2,47E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 8,95E-01        | 8,95E-01        | -5,19E-02       | 66,87                  | 6,69E+01               | -6,13E+01              | 0,00E+00                   | 0,00E+00                   | 2,41E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,60E-02        | 1,60E-02        | -5,19E-02       | 66,87                  | 6,69E+01               | -1,54E+02              | 0,00E+00                   | 0,00E+00                   | 2,41E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 9,38E-04        | 9,38E-04        | -1,86E-02       | 71,27                  | 7,13E+01               | -1,93E+02              | 0,00E+00                   | 0,00E+00                   | 2,18E+02                   |

Trwałość zmęczeniowa warstwy ściernej 3,41466E+11 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 186812766,6 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudowy 5526939,907 [osi 115 kN]

Project: KR6 -IV - 90%

System: 1: KR6- IV - 90%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|--------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                 | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,04E+00       | -1,04E+00       | -7,00E-01       | -50,58                 | -5,06E+01              | -7,13E+00              | 0,00E+00                   | 0,00E+00                   | 2,35E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,21E-01       | -5,21E-01       | -6,69E-01       | -15,89                 | -1,59E+01              | -3,46E+01              | 0,00E+00                   | 0,00E+00                   | 2,33E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,56E-01       | -6,56E-01       | -6,69E-01       | -25,57                 | -2,56E+01              | -2,73E+01              | 0,00E+00                   | 0,00E+00                   | 2,33E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,75E-02       | -2,75E-02       | -4,77E-01       | 12,26                  | 1,23E+01               | -4,56E+01              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,64E-01       | -2,64E-01       | -4,77E-01       | -4,331                 | -4,33E+00              | -3,32E+01              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 7,17E-01        | 7,17E-01        | -3,86E-02       | 53,48                  | 5,35E+01               | -4,88E+01              | 0,00E+00                   | 0,00E+00                   | 2,24E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,40E-02        | 1,40E-02        | -3,86E-02       | 53,48                  | 5,35E+01               | -1,18E+02              | 0,00E+00                   | 0,00E+00                   | 2,24E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 5,20E-04        | 5,20E-04        | -1,56E-02       | 57,86                  | 5,79E+01               | -1,59E+02              | 0,00E+00                   | 0,00E+00                   | 2,06E+02                   |

Trwałość zmęczeniowa warstwy ściernalnej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 4,36E+09 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 11530367 [osi 115 kN]

Project: KR6 -III - brak szczepności

System: 1: KR6- III - 0%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                           |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 8,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                           |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,13E+00       | -1,13E+00       | -7,00E-01       | -56,05                 | -5,61E+01              | -2,44E+00              | 0,00E+00                   | 0,00E+00                   | 2,49E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,37E-01       | -6,37E-01       | -6,64E-01       | -23,98                 | -2,40E+01              | -2,73E+01              | 0,00E+00                   | 0,00E+00                   | 2,49E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,31E-01       | -6,31E-01       | -6,64E-01       | -23,98                 | -2,40E+01              | -2,83E+01              | 0,00E+00                   | 0,00E+00                   | 2,49E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,02E-01       | -1,02E-01       | -4,38E-01       | 5,914                  | 5,92E+00               | -3,73E+01              | 0,00E+00                   | 0,00E+00                   | 2,46E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,07E-01       | -1,07E-01       | -4,38E-01       | 5,914                  | 5,92E+00               | -3,90E+01              | 0,00E+00                   | 0,00E+00                   | 2,46E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 7,56E-01        | 7,56E-01        | -2,62E-02       | 55,96                  | 5,60E+01               | -5,00E+01              | 0,00E+00                   | 0,00E+00                   | 2,39E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | -2,98E-02       | -2,98E-02       | -2,62E-02       | -32,54                 | -3,25E+01              | -2,08E+01              | 0,00E+00                   | 0,00E+00                   | 2,39E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -5,28E-03       | -5,28E-03       | -1,75E-02       | 26,99                  | 2,70E+01               | -1,38E+02              | 0,00E+00                   | 0,00E+00                   | 2,31E+02                   |

Trwałość zmęczeniowa warstwy ściernalnej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 4,81E+10 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 9932430 [osi 115 kN]

Project: KR6 -III - 30%

System: 1: KR6- III - 30%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|--------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 8,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                 | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,09E+00       | -1,09E+00       | -7,00E-01       | -53,96                 | -5,40E+01              | -4,24E+00              | 0,00E+00                   | 0,00E+00                   | 2,34E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,22E-01       | -6,22E-01       | -6,64E-01       | -22,91                 | -2,29E+01              | -2,83E+01              | 0,00E+00                   | 0,00E+00                   | 2,33E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,15E-01       | -6,15E-01       | -6,64E-01       | -22,91                 | -2,29E+01              | -2,92E+01              | 0,00E+00                   | 0,00E+00                   | 2,33E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,10E-01       | -1,10E-01       | -4,41E-01       | 5,49                   | 5,49E+00               | -3,71E+01              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,14E-01       | -1,14E-01       | -4,41E-01       | 5,49                   | 5,49E+00               | -3,88E+01              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 6,93E-01        | 6,93E-01        | -2,95E-02       | 51,48                  | 5,15E+01               | -4,64E+01              | 0,00E+00                   | 0,00E+00                   | 2,24E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | -5,87E-03       | -5,87E-03       | -2,95E-02       | 11,85                  | 1,19E+01               | -6,49E+01              | 0,00E+00                   | 0,00E+00                   | 2,24E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -1,40E-03       | -1,40E-03       | -1,59E-02       | 46,7                   | 4,67E+01               | -1,50E+02              | 0,00E+00                   | 0,00E+00                   | 2,10E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 6,14E+10 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 13071294 [osi 115 kN]

Project: KR6 -III - 50%

System: 1: KR6- III - 50%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 2,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,08E+00       | -1,08E+00       | -7,00E-01       | -5,31E+01              | -5,31E+01              | -4,96E+00              | 0,00E+00                   | 0,00E+00                   | 2,31E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,15E-01       | -6,15E-01       | -6,65E-01       | -2,25E+01              | -2,25E+01              | -2,87E+01              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,09E-01       | -6,09E-01       | -6,65E-01       | -2,25E+01              | -2,25E+01              | -2,97E+01              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,12E-01       | -1,12E-01       | -4,43E-01       | 5,43E+00               | 5,43E+00               | -3,72E+01              | 0,00E+00                   | 0,00E+00                   | 2,27E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,15E-01       | -1,15E-01       | -4,43E-01       | 5,43E+00               | 5,43E+00               | -3,89E+01              | 0,00E+00                   | 0,00E+00                   | 2,27E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 6,68E-01        | 6,68E-01        | -3,19E-02       | 4,97E+01               | 4,97E+01               | -4,51E+01              | 0,00E+00                   | 0,00E+00                   | 2,21E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 5,02E-03        | 5,02E-03        | -3,19E-02       | 3,27E+01               | 3,27E+01               | -8,72E+01              | 0,00E+00                   | 0,00E+00                   | 2,21E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -2,54E-04       | -2,56E-04       | -1,52E-02       | 5,17E+01               | 5,17E+01               | -1,51E+02              | 0,00E+00                   | 0,00E+00                   | 2,06E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 6,367E+10 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 14656731 [osi 115 kN]

Project: KR6 -III - 70%

System: 1: KR6- III - 70%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 6,00E-01             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,08E+00       | -1,08E+00       | -7,00E-01       | -52,78                 | -5,28E+01              | -5,25E+00              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,13E-01       | -6,13E-01       | -6,65E-01       | -22,27                 | -2,23E+01              | -2,89E+01              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,06E-01       | -6,06E-01       | -6,65E-01       | -22,27                 | -2,23E+01              | -2,98E+01              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,12E-01       | -1,12E-01       | -4,44E-01       | 5,418                  | 5,42E+00               | -3,73E+01              | 0,00E+00                   | 0,00E+00                   | 2,26E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,16E-01       | -1,16E-01       | -4,44E-01       | 5,418                  | 5,42E+00               | -3,90E+01              | 0,00E+00                   | 0,00E+00                   | 2,26E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 6,57E-01        | 6,57E-01        | -3,32E-02       | 48,97                  | 4,90E+01               | -4,45E+01              | 0,00E+00                   | 0,00E+00                   | 2,20E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,02E-02        | 1,02E-02        | -3,32E-02       | 42,62                  | 4,26E+01               | -9,81E+01              | 0,00E+00                   | 0,00E+00                   | 2,20E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 1,64E-04        | 1,61E-04        | -1,49E-02       | 53,29                  | 5,33E+01               | -1,50E+02              | 0,00E+00                   | 0,00E+00                   | 2,04E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 6,414E+10 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 15408525 [osi 115 kN]

Project: KR6 -III - 90%

System: 1: KR6- III - 90%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,07E+00       | -1,07E+00       | -7,00E-01       | -52,63                 | -5,26E+01              | -5,38E+00              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,12E-01       | -6,12E-01       | -6,65E-01       | -22,19                 | -2,22E+01              | -2,90E+01              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,05E-01       | -6,05E-01       | -6,65E-01       | -22,19                 | -2,22E+01              | -2,99E+01              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,12E-01       | -1,12E-01       | -4,45E-01       | 5,416                  | 5,42E+00               | -3,74E+01              | 0,00E+00                   | 0,00E+00                   | 2,26E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,16E-01       | -1,16E-01       | -4,45E-01       | 5,416                  | 5,42E+00               | -3,91E+01              | 0,00E+00                   | 0,00E+00                   | 2,26E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 6,52E-01        | 6,52E-01        | -3,38E-02       | 48,61                  | 4,86E+01               | -4,43E+01              | 0,00E+00                   | 0,00E+00                   | 2,20E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,27E-02        | 1,27E-02        | -3,38E-02       | 47,56                  | 4,76E+01               | -1,04E+02              | 0,00E+00                   | 0,00E+00                   | 2,20E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 3,44E-04        | 3,41E-04        | -1,48E-02       | 53,92                  | 5,39E+01               | -1,50E+02              | 0,00E+00                   | 0,00E+00                   | 2,04E+02                   |

Trwałość zmęczeniowa warstwy ścieralnej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 6,421E+10 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 15787269 [osi 115 kN]

Project: KR6 -II - brak szczepności

System: 1: KR6- II - 0%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 2,00E+02             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,26E+00       | -1,26E+00       | -7,00E-01       | -64,95                 | -6,50E+01              | 5,19E+00               | 0,00E+00                   | 0,00E+00                   | 3,26E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -3,35E-01       | -3,35E-01       | -6,45E-01       | -3,994                 | -4,00E+00              | -4,31E+01              | 0,00E+00                   | 0,00E+00                   | 3,25E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -3,34E-01       | -3,34E-01       | -6,45E-01       | -3,996                 | -4,00E+00              | -4,40E+01              | 0,00E+00                   | 0,00E+00                   | 3,25E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 1,00E+00        | 1,00E+00        | -5,03E-01       | 84,39                  | 8,44E+01               | -1,09E+02              | 0,00E+00                   | 0,00E+00                   | 3,19E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,28E+00       | -1,28E+00       | -5,03E-01       | -77,79                 | -7,78E+01              | 2,78E+01               | 0,00E+00                   | 0,00E+00                   | 3,19E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 9,84E-01        | 9,84E-01        | -6,86E-02       | 73,92                  | 7,39E+01               | -6,87E+01              | 0,00E+00                   | 0,00E+00                   | 3,15E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,28E-02        | 1,28E-02        | -6,86E-02       | 73,92                  | 7,39E+01               | -1,91E+02              | 0,00E+00                   | 0,00E+00                   | 3,15E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 2,73E-04        | 2,73E-04        | -2,80E-02       | 99,92                  | 9,99E+01               | -2,82E+02              | 0,00E+00                   | 0,00E+00                   | 2,85E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 7633946,4 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudowy 3973977,7 [osi 115 kN]

Project: KR6 -II - 30%

System: 1: KR6- II - 30%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                           |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 8,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                           |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,27E+00       | -1,27E+00       | -7,00E-01       | -65,79                 | -6,58E+01              | 5,91E+00               | 0,00E+00                   | 0,00E+00                   | 2,92E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -4,15E-01       | -4,15E-01       | -6,46E-01       | -9,381                 | -9,38E+00              | -3,85E+01              | 0,00E+00                   | 0,00E+00                   | 2,92E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -4,12E-01       | -4,12E-01       | -6,46E-01       | -9,381                 | -9,38E+00              | -3,95E+01              | 0,00E+00                   | 0,00E+00                   | 2,92E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 8,09E-01        | 8,09E-01        | -4,97E-01       | 70,82                  | 7,08E+01               | -9,72E+01              | 0,00E+00                   | 0,00E+00                   | 2,86E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,09E+00       | -1,09E+00       | -4,97E-01       | -63,68                 | -6,37E+01              | 1,62E+01               | 0,00E+00                   | 0,00E+00                   | 2,86E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 9,56E-01        | 9,56E-01        | -6,24E-02       | 71,63                  | 7,16E+01               | -6,62E+01              | 0,00E+00                   | 0,00E+00                   | 2,81E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,42E-02        | 1,42E-02        | -6,24E-02       | 71,63                  | 7,16E+01               | -1,77E+02              | 0,00E+00                   | 0,00E+00                   | 2,81E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 7,62E-04        | 7,62E-04        | -2,44E-02       | 90,34                  | 9,03E+01               | -2,49E+02              | 0,00E+00                   | 0,00E+00                   | 2,54E+02                   |

Trwałość zmęczeniowa warstwy ściernalnej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 13592821 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 4407614 [osi 115 kN]

Project: KR6 -II - 50%

System: 1: KR6- II - 50%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|--------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                 | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 2,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                          |            |                  |                  |                       |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,24E+00       | -1,24E+00       | -7,00E-01       | -6,40E+01              | -6,40E+01              | 4,38E+00               | 0,00E+00                   | 0,00E+00                   | 2,64E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -4,87E-01       | -4,87E-01       | -6,48E-01       | -1,42E+01              | -1,42E+01              | -3,46E+01              | 0,00E+00                   | 0,00E+00                   | 2,63E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -4,83E-01       | -4,83E-01       | -6,48E-01       | -1,42E+01              | -1,42E+01              | -3,55E+01              | 0,00E+00                   | 0,00E+00                   | 2,63E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 5,65E-01        | 5,65E-01        | -4,86E-01       | 5,36E+01               | 5,36E+01               | -8,17E+01              | 0,00E+00                   | 0,00E+00                   | 2,59E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -8,28E-01       | -8,28E-01       | -4,86E-01       | -4,52E+01              | -4,52E+01              | 1,13E+00               | 0,00E+00                   | 0,00E+00                   | 2,59E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 8,86E-01        | 8,86E-01        | -5,42E-02       | 6,63E+01               | 6,63E+01               | -6,10E+01              | 0,00E+00                   | 0,00E+00                   | 2,53E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,47E-02        | 1,47E-02        | -5,42E-02       | 6,63E+01               | 6,63E+01               | -1,57E+02              | 0,00E+00                   | 0,00E+00                   | 2,53E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 8,71E-04        | 8,71E-04        | -2,06E-02       | 7,76E+01               | 7,76E+01               | -2,12E+02              | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 34084618 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 5682042,1 [osi 115 kN]

Project: KR6 -II - 70%

System: 1: KR6- II - 70%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 6,00E-01             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,19E+00       | -1,19E+00       | -7,00E-01       | -60,41                 | -6,04E+01              | 1,29E+00               | 0,00E+00                   | 0,00E+00                   | 2,46E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,44E-01       | -5,44E-01       | -6,53E-01       | -17,99                 | -1,80E+01              | -3,17E+01              | 0,00E+00                   | 0,00E+00                   | 2,45E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,39E-01       | -5,39E-01       | -6,53E-01       | -17,99                 | -1,80E+01              | -3,26E+01              | 0,00E+00                   | 0,00E+00                   | 2,45E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 3,05E-01        | 3,05E-01        | -4,72E-01       | 35,16                  | 3,52E+01               | -6,49E+01              | 0,00E+00                   | 0,00E+00                   | 2,41E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -5,53E-01       | -5,53E-01       | -4,72E-01       | -25,59                 | -2,56E+01              | -1,46E+01              | 0,00E+00                   | 0,00E+00                   | 2,41E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 7,98E-01        | 7,98E-01        | -4,59E-02       | 59,61                  | 5,96E+01               | -5,46E+01              | 0,00E+00                   | 0,00E+00                   | 2,35E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,44E-02        | 1,44E-02        | -4,59E-02       | 59,61                  | 5,96E+01               | -1,36E+02              | 0,00E+00                   | 0,00E+00                   | 2,35E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 7,24E-04        | 7,24E-04        | -1,76E-02       | 66,31                  | 6,63E+01               | -1,81E+02              | 0,00E+00                   | 0,00E+00                   | 2,15E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 1,36E+08 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 8067627 [osi 115 kN]

Project: KR6 -II - 90%

System: 1: KR6- II - 90%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 9,00E-02             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,11E+00       | -1,11E+00       | -7,00E-01       | -54,96                 | -5,50E+01              | -3,38E+00              | 0,00E+00                   | 0,00E+00                   | 2,33E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,95E-01       | -5,95E-01       | -6,61E-01       | -21,17                 | -2,12E+01              | -2,95E+01              | 0,00E+00                   | 0,00E+00                   | 2,32E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,89E-01       | -5,89E-01       | -6,61E-01       | -21,17                 | -2,12E+01              | -3,05E+01              | 0,00E+00                   | 0,00E+00                   | 2,32E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 1,94E-03        | 1,94E-03        | -4,53E-01       | 13,59                  | 1,36E+01               | -4,50E+01              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,35E-01       | -2,35E-01       | -4,53E-01       | -2,999                 | -3,00E+00              | -3,25E+01              | 0,00E+00                   | 0,00E+00                   | 2,29E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 6,92E-01        | 6,92E-01        | -3,71E-02       | 51,59                  | 5,16E+01               | -4,71E+01              | 0,00E+00                   | 0,00E+00                   | 2,23E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,36E-02        | 1,36E-02        | -3,71E-02       | 51,59                  | 5,16E+01               | -1,13E+02              | 0,00E+00                   | 0,00E+00                   | 2,23E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 4,68E-04        | 4,68E-04        | -1,54E-02       | 56,75                  | 5,68E+01               | -1,57E+02              | 0,00E+00                   | 0,00E+00                   | 2,06E+02                   |

Trwałość zmęczeniowa warstwy ścieralnej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 3,11E+09 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 12979796 [osi 115 kN]

Project: KR6 -I - brak szczepności

System: 1: KR6- I - 0%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                           |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 2,00E+02             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                           |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -4,69E-01       | -4,69E-01       | -7,00E-01       | -1,15E+01              | -1,15E+01              | -4,06E+01              | 0,00E+00                   | 0,00E+00                   | 2,66E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | 2,20E-01        | 2,20E-01        | -7,21E-01       | 3,60E+01               | 3,60E+01               | -8,29E+01              | 0,00E+00                   | 0,00E+00                   | 2,63E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,25E+00       | -1,25E+00       | -7,21E-01       | -6,49E+01              | -6,49E+01              | 2,60E+00               | 0,00E+00                   | 0,00E+00                   | 2,63E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -3,81E-01       | -3,81E-01       | -5,79E-01       | -9,23E+00              | -9,23E+00              | -3,46E+01              | 0,00E+00                   | 0,00E+00                   | 2,61E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -3,75E-01       | -3,75E-01       | -5,79E-01       | -9,23E+00              | -9,23E+00              | -3,69E+01              | 0,00E+00                   | 0,00E+00                   | 2,61E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 8,36E-01        | 8,36E-01        | -4,71E-02       | 6,25E+01               | 6,25E+01               | -5,72E+01              | 0,00E+00                   | 0,00E+00                   | 2,54E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,55E-02        | 1,55E-02        | -4,71E-02       | 6,25E+01               | 6,25E+01               | -1,41E+02              | 0,00E+00                   | 0,00E+00                   | 2,54E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 5,49E-04        | 5,49E-04        | -1,92E-02       | 7,09E+01               | 7,09E+01               | -1,96E+02              | 0,00E+00                   | 0,00E+00                   | 2,33E+02                   |

Trwałość zmęczeniowa warstwy ściernej 6,55E+08 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 6921875 [osi 115 kN]

Project: KR6 -I - 30%

System: 1: KR6- I - 30%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 8,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -6,09E-01       | -6,09E-01       | -7,00E-01       | -21                    | -21                    | -32,49                 | 0,00E+00                   | 0,00E+00                   | 2,52E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | 5,07E-02        | 5,07E-02        | -7,17E-01       | 24,34                  | 24,34                  | -72,59                 | 0,00E+00                   | 0,00E+00                   | 2,49E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,15E+00       | -1,15E+00       | -7,17E-01       | -58,26                 | -58,26                 | -2,824                 | 0,00E+00                   | 0,00E+00                   | 2,49E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -3,29E-01       | -3,29E-01       | -5,70E-01       | -5,877                 | -5,874                 | -36,86                 | 0,00E+00                   | 0,00E+00                   | 2,47E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -3,25E-01       | -3,25E-01       | -5,70E-01       | -5,877                 | -5,874                 | -39,04                 | 0,00E+00                   | 0,00E+00                   | 2,47E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 8,15E-01        | 8,15E-01        | -4,47E-02       | 60,83                  | 60,83                  | -55,6                  | 0,00E+00                   | 0,00E+00                   | 2,40E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,56E-02        | 1,56E-02        | -4,47E-02       | 60,82                  | 60,83                  | -135,2                 | 0,00E+00                   | 0,00E+00                   | 2,40E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 6,97E-04        | 6,97E-04        | -1,79E-02       | 67                     | 66,99                  | -183,3                 | 0,00E+00                   | 0,00E+00                   | 2,20E+02                   |

Trwałość zmęczeniowa warstwy ścieralnej 2,372E+09 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 7547259,7 [osi 115 kN]

Project: KR6 -I - 50%

System: 1: KR6- I - 50%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|--------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 2,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                          |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                 | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -7,41E-01       | -7,41E-01       | -7,00E-01       | -3,00E+01              | -3,00E+01              | -2,48E+01              | 0,00E+00                   | 0,00E+00                   | 2,42E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,28E-01       | -1,28E-01       | -7,09E-01       | 1,19E+01               | 1,19E+01               | -6,14E+01              | 0,00E+00                   | 0,00E+00                   | 2,40E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,02E+00       | -1,02E+00       | -7,09E-01       | -4,96E+01              | -4,96E+01              | -9,62E+00              | 0,00E+00                   | 0,00E+00                   | 2,40E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,71E-01       | -2,71E-01       | -5,51E-01       | -2,40E+00              | -2,40E+00              | -3,85E+01              | 0,00E+00                   | 0,00E+00                   | 2,38E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,69E-01       | -2,69E-01       | -5,51E-01       | -2,40E+00              | -2,40E+00              | -4,06E+01              | 0,00E+00                   | 0,00E+00                   | 2,38E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 7,77E-01        | 7,77E-01        | -4,19E-02       | 5,80E+01               | 5,80E+01               | -5,30E+01              | 0,00E+00                   | 0,00E+00                   | 2,31E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,52E-02        | 1,52E-02        | -4,19E-02       | 5,80E+01               | 5,80E+01               | -1,28E+02              | 0,00E+00                   | 0,00E+00                   | 2,31E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 6,66E-04        | 6,66E-04        | -1,66E-02       | 6,25E+01               | 6,25E+01               | -1,71E+02              | 0,00E+00                   | 0,00E+00                   | 2,12E+02                   |

Trwałość zmęczeniowa warstwy ściernej 2,472E+10 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudow 8828349,1 [osi 115 kN]

Project: KR6 -I - 70%

System: 1: KR6- I - 70%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 6,00E-01             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -8,65E-01       | -8,65E-01       | -7,00E-01       | -38,42                 | -38,42                 | -17,55                 | 0,00E+00                   | 0,00E+00                   | 2,36E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -3,17E-01       | -3,17E-01       | -6,95E-01       | -1,27                  | -1,269                 | -49,05                 | 0,00E+00                   | 0,00E+00                   | 2,34E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -8,67E-01       | -8,67E-01       | -6,95E-01       | -39,44                 | -39,44                 | -17,33                 | 0,00E+00                   | 0,00E+00                   | 2,34E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,11E-01       | -2,11E-01       | -5,20E-01       | 0,8007                 | 0,8009                 | -38,95                 | 0,00E+00                   | 0,00E+00                   | 2,32E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -2,12E-01       | -2,12E-01       | -5,20E-01       | 0,8006                 | 0,8009                 | -40,94                 | 0,00E+00                   | 0,00E+00                   | 2,32E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 7,32E-01        | 7,32E-01        | -3,89E-02       | 54,6                   | 54,6                   | -49,81                 | 0,00E+00                   | 0,00E+00                   | 2,25E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,45E-02        | 1,45E-02        | -3,89E-02       | 54,6                   | 54,6                   | -119,1                 | 0,00E+00                   | 0,00E+00                   | 2,25E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 5,60E-04        | 5,60E-04        | -1,57E-02       | 58,54                  | 58,54                  | -160,8                 | 0,00E+00                   | 0,00E+00                   | 2,07E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 3,4662E+13 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudowy 10770107,5 [osi 115 kN]

Project: KR6 -I - 90%

System: 1: KR6- I - 90%

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                         |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 9,00E-02             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 0,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MP | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                         |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                         |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -1,01E+00       | -1,01E+00       | -7,00E-01       | -48,27                 | -48,27                 | -9,114                 | 0,00E+00                   | 0,00E+00                   | 2,31E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -5,40E-01       | -5,40E-01       | -6,72E-01       | -17,14                 | -17,14                 | -33,78                 | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -6,69E-01       | -6,69E-01       | -6,72E-01       | -26,41                 | -26,42                 | -26,79                 | 0,00E+00                   | 0,00E+00                   | 2,30E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,41E-01       | -1,41E-01       | -4,67E-01       | 4,094                  | 4,094                  | -37,85                 | 0,00E+00                   | 0,00E+00                   | 2,27E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,44E-01       | -1,44E-01       | -4,67E-01       | 4,094                  | 4,094                  | -39,64                 | 0,00E+00                   | 0,00E+00                   | 2,27E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 6,75E-01        | 6,75E-01        | -3,54E-02       | 50,3                   | 50,3                   | -45,85                 | 0,00E+00                   | 0,00E+00                   | 2,21E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,36E-02        | 1,36E-02        | -3,54E-02       | 50,3                   | 50,3                   | -108,8                 | 0,00E+00                   | 0,00E+00                   | 2,21E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | 4,27E-04        | 4,24E-04        | -1,50E-02       | 55,09                  | 55,06                  | -152,4                 | 0,00E+00                   | 0,00E+00                   | 2,04E+02                   |

Trwałość zmęczeniowa warstwy ściernej #LICZBA! [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 1,61E+11 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudowy 14107849 [osi 115 kN]

Project: KR6 -30% na wszystkich głębokościach

System: 1: KR6- VII - 30% Na wszystkich stykach

| Layer Number | Thickness (m) | Modulus Elasticity (MPa) | Poisson's Ratio | Shear Compliance [m] |             |                    |                       |                         |                           |            |                  |                  |                       |
|--------------|---------------|--------------------------|-----------------|----------------------|-------------|--------------------|-----------------------|-------------------------|---------------------------|------------|------------------|------------------|-----------------------|
| 1            | 0,05          | 1,03E+04                 | 0,3             | 8,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 2            | 0,08          | 1,01E+04                 | 0,3             | 8,00E+00             | Load Number | Vertical Load (kN) | Vertical Stress (MPa) | Horz. (Shear) Load (kN) | Horz. (Shear) Stress(MPa) | Radius (m) | X Coordinate (m) | Y Coordinate (m) | Shear Angle (Degrees) |
| 3            | 0,18          | 9,60E+03                 | 0,3             | 8,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 4            | 0,2           | 4,00E+02                 | 0,3             | 0,00E+00             |             |                    |                       |                         |                           |            |                  |                  |                       |
| 5            |               | 1,00E+02                 | 0,35            |                      |             |                    |                       |                         |                           |            |                  |                  |                       |
|              |               |                          |                 |                      | 1           | 5,75E+01           | 7,00E-01              | 0,00E+00                | 0,00E+00                  | 1,62E-01   | 0,00E+00         | 0,00E+00         | 0,00E+00              |

| Position Number | Layer Number | X Coordinate (m) | Y Coordinate (m) | Depth (m) | Stress XX (MPa) | Stress YY (MPa) | Stress ZZ (MPa) | Strain XX $\mu$ strain | Strain YY $\mu$ strain | Strain ZZ $\mu$ strain | Displacement UX ( $\mu$ m) | Displacement UY ( $\mu$ m) | Displacement UZ ( $\mu$ m) |
|-----------------|--------------|------------------|------------------|-----------|-----------------|-----------------|-----------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 1               | 1            | 0,00E+00         | 0,00E+00         | 0,00E+00  | -8,45E-01       | -8,45E-01       | -7,00E-01       | -37,03                 | -3,70E+01              | -1,88E+01              | 0,00E+00                   | 0,00E+00                   | 3,21E+02                   |
| 2               | 1            | 0,00E+00         | 0,00E+00         | 5,00E-02  | 3,20E-01        | 3,20E-01        | -7,07E-01       | 42,34                  | 4,23E+01               | -8,73E+01              | 0,00E+00                   | 0,00E+00                   | 3,19E+02                   |
| 3               | 2            | 0,00E+00         | 0,00E+00         | 5,00E-02  | -1,05E+00       | -1,05E+00       | -7,07E-01       | -51,9                  | -5,19E+01              | -7,48E+00              | 0,00E+00                   | 0,00E+00                   | 3,19E+02                   |
| 4               | 2            | 0,00E+00         | 0,00E+00         | 1,30E-01  | 6,69E-01        | 6,69E-01        | -6,46E-01       | 65,54                  | 6,55E+01               | -1,04E+02              | 0,00E+00                   | 0,00E+00                   | 3,14E+02                   |
| 5               | 3            | 0,00E+00         | 0,00E+00         | 1,30E-01  | -1,41E+00       | -1,41E+00       | -6,46E-01       | -82,29                 | -8,23E+01              | 2,05E+01               | 0,00E+00                   | 0,00E+00                   | 3,14E+02                   |
| 6               | 3            | 0,00E+00         | 0,00E+00         | 3,10E-01  | 1,27E+00        | 1,27E+00        | -6,59E-02       | 94,59                  | 9,46E+01               | -8,62E+01              | 0,00E+00                   | 0,00E+00                   | 3,08E+02                   |
| 7               | 4            | 0,00E+00         | 0,00E+00         | 3,10E-01  | -2,63E-02       | -2,63E-02       | -6,59E-02       | 3,343                  | 3,35E+00               | -1,25E+02              | 0,00E+00                   | 0,00E+00                   | 3,08E+02                   |
| 8               | 5            | 0,00E+00         | 0,00E+00         | 5,10E-01  | -2,06E-03       | -2,06E-03       | -3,06E-02       | 93,77                  | 9,38E+01               | -2,92E+02              | 0,00E+00                   | 0,00E+00                   | 2,82E+02                   |

Trwałość zmęczeniowa warstwy ściernej 383634387 [osi 115 kN]

Trwałość zmęczeniowa warstwy wiążącej 17540827 [osi 115 kN]

Trwałość zmęczeniowa warstwy podbudowy 1765283,2 [osi 115 kN]