



## KLION Report

### Proprietà Sito

Sito: IM003

Attuatore: Comune di Borgomaro (IM)

### Proprietà Tubo

Nome: RM549\_S8I

Azimuth [°]: 30.00

Orientamento: VERTICALE

Latitudine: 43.970753

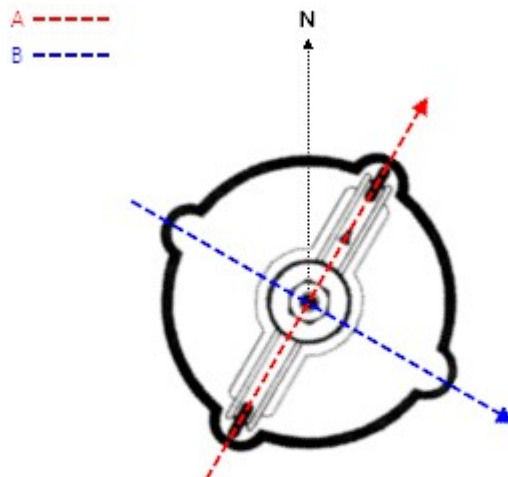
Longitudine: 7.908059

Altitudine [m s.l.m.]: 492

Sporgenza dal Suolo [m]: 0

### Posizione

### Orientamento



Azimuth [°]: 30.00

### Opzioni di elaborazione inclinometrica

Riferimento al fondo: Sì

Compensazione spiralometrica: No

Relativo - variazione dalla misura di riferimento

Curva cumulata

Correzione Bias Shift: No

## Misura inclinometrica del 18/12/2018 00:00

Data/Ora: 18/12/2018 00:00:00

Sequenza Letture: A1A3B1B3

ID Sonda (serial number): S060314

Sensibilità sonda [sin  $\alpha$ ]: 20000

Ch A convenzione: -1

Ch B convenzione: -1

Profondità 1.a lettura [m]: 0.5

Intervallo letture [m]: 0.5

Misura di riferimento: 18/12/2018 00:00

Spostamenti rispetto alla verticale

| Prof [m] | Nord [mm] | Est [mm] |
|----------|-----------|----------|
| 0.50     | 0.58      | -1.21    |
| 1.00     | 0.39      | -1.18    |
| 1.50     | 0.09      | -1.26    |
| 2.00     | -0.05     | -1.33    |
| 2.50     | 0.06      | -1.36    |
| 3.00     | 0.30      | -1.44    |
| 3.50     | 1.79      | -1.72    |
| 4.00     | 1.91      | -1.86    |
| 4.50     | 1.94      | -1.98    |
| 5.00     | 1.95      | -2.48    |
| 5.50     | 2.07      | -2.84    |
| 6.00     | 2.34      | -3.11    |
| 6.50     | 2.72      | -4.71    |
| 7.00     | 2.77      | -4.94    |
| 7.50     | 3.54      | -5.20    |
| 8.00     | 4.44      | -5.39    |
| 8.50     | 4.95      | -5.37    |
| 9.00     | 5.36      | -5.21    |
| 9.50     | 4.30      | -4.02    |
| 10.00    | 4.00      | -3.58    |
| 10.50    | 3.74      | -3.18    |
| 11.00    | 3.41      | -2.85    |
| 11.50    | 3.11      | -3.18    |
| 12.00    | 3.33      | -3.30    |
| 12.50    | 6.83      | -4.13    |
| 13.00    | 7.36      | -4.12    |
| 13.50    | 7.90      | -3.93    |
| 14.00    | 8.42      | -3.46    |
| 14.50    | 8.41      | -3.07    |
| 15.00    | 8.48      | -2.58    |
| 15.50    | 10.54     | -0.43    |
| 16.00    | 10.79     | -0.32    |
| 16.50    | 11.06     | -0.10    |
| 17.00    | 11.41     | 0.24     |
| 17.50    | 11.68     | 0.55     |
| 18.00    | 12.21     | 0.65     |
| 18.50    | 13.63     | 0.51     |
| 19.00    | 13.32     | 0.59     |
| 19.50    | 13.13     | 0.73     |
| 20.00    | 12.79     | 1.29     |
| 20.50    | 12.57     | 1.90     |
| 21.00    | 12.89     | 1.80     |
| 21.50    | 16.08     | 1.32     |
| 22.00    | 16.73     | 1.32     |
| 22.50    | 17.13     | 1.18     |
| 23.00    | 17.60     | 1.26     |
| 23.50    | 18.05     | 1.49     |
| 24.00    | 18.46     | 1.72     |
| 24.50    | 20.72     | 1.44     |
| 25.00    | 20.84     | 1.31     |
| 25.50    | 21.03     | 1.16     |
| 26.00    | 21.39     | 0.96     |
| 26.50    | 21.92     | 0.71     |
| 27.00    | 22.47     | 0.43     |
| 27.50    | 24.35     | -1.27    |
| 28.00    | 23.69     | -0.93    |
| 28.50    | 22.94     | -0.64    |
| 29.00    | 22.53     | -0.55    |

## Misura inclinometrica del 01/12/2022 00:00

Data/Ora: 01/12/2022 00:00:00

Sequenza Letture: A1A3B1B3

ID Sonda (serial number): S060314

Sensibilità sonda [sin α]: 20000

Ch A convenzione: -1

Ch B convenzione: -1

Profondità 1.a lettura [m]: 0.5

Intervallo letture [m]: 0.5

Misura di riferimento: Misura inclinometrica del 18/12/2018 00:00

### Elaborazione dati - misura del 01/12/2022 00:00

| Prof [m] | Quota [m<br>slm] | Mov. rel.<br>Nord<br>[mm] | Mov. rel.<br>Est [mm] | Mov. rel.<br>Risultante<br>[mm] | Azimuth<br>Mov. rel.<br>[°] | Σ Mov.<br>rel. Nord<br>[mm] | Σ Mov.<br>rel. Est<br>[mm] | Σ Mov.<br>rel.<br>Risultante<br>[mm] | Σ<br>Azimuth<br>Mov. rel.<br>[°] |
|----------|------------------|---------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------------|----------------------------|--------------------------------------|----------------------------------|
| 0.50     | 491.50           | 0.02                      | 0.34                  | 0.34                            | 86.89                       | -1.06                       | 2.68                       | 2.88                                 | 111.52                           |
| 1.00     | 491.00           | -0.80                     | -0.04                 | 0.80                            | 183.03                      | -1.08                       | 2.34                       | 2.57                                 | 114.70                           |
| 1.50     | 490.50           | -1.43                     | -0.52                 | 1.52                            | 200.07                      | -0.28                       | 2.38                       | 2.40                                 | 96.64                            |
| 2.00     | 490.00           | -0.90                     | -0.35                 | 0.96                            | 201.03                      | 1.15                        | 2.90                       | 3.12                                 | 68.34                            |
| 2.50     | 489.50           | -0.12                     | -0.17                 | 0.21                            | 235.02                      | 2.05                        | 3.25                       | 3.84                                 | 57.73                            |
| 3.00     | 489.00           | -0.07                     | -0.10                 | 0.12                            | 233.96                      | 2.17                        | 3.42                       | 4.05                                 | 57.59                            |
| 3.50     | 488.50           | -0.11                     | -0.11                 | 0.15                            | 224.04                      | 2.24                        | 3.52                       | 4.17                                 | 57.49                            |
| 4.00     | 488.00           | -0.03                     | -0.09                 | 0.10                            | 249.81                      | 2.35                        | 3.62                       | 4.32                                 | 57.01                            |
| 4.50     | 487.50           | 0.24                      | 0.26                  | 0.35                            | 46.50                       | 2.39                        | 3.72                       | 4.42                                 | 57.29                            |
| 5.00     | 487.00           | 0.39                      | 0.37                  | 0.54                            | 43.39                       | 2.14                        | 3.46                       | 4.07                                 | 58.22                            |
| 5.50     | 486.50           | 0.42                      | 0.37                  | 0.56                            | 41.56                       | 1.75                        | 3.09                       | 3.55                                 | 60.45                            |
| 6.00     | 486.00           | 1.39                      | 2.35                  | 2.73                            | 59.39                       | 1.33                        | 2.72                       | 3.03                                 | 63.89                            |
| 6.50     | 485.50           | 0.50                      | 0.81                  | 0.95                            | 58.25                       | -0.06                       | 0.37                       | 0.38                                 | 98.55                            |
| 7.00     | 485.00           | -0.02                     | 0.00                  | 0.02                            | 165.00                      | -0.56                       | -0.44                      | 0.71                                 | 218.13                           |
| 7.50     | 484.50           | -0.02                     | 0.06                  | 0.06                            | 108.69                      | -0.54                       | -0.44                      | 0.70                                 | 219.29                           |
| 8.00     | 484.00           | 0.05                      | -0.07                 | 0.09                            | 308.13                      | -0.52                       | -0.50                      | 0.72                                 | 224.04                           |
| 8.50     | 483.50           | 0.03                      | 0.00                  | 0.03                            | 3.43                        | -0.57                       | -0.43                      | 0.72                                 | 217.00                           |
| 9.00     | 483.00           | 0.03                      | -0.03                 | 0.04                            | 318.43                      | -0.60                       | -0.43                      | 0.74                                 | 215.81                           |
| 9.50     | 482.50           | 0.00                      | -0.04                 | 0.05                            | 266.31                      | -0.63                       | -0.41                      | 0.75                                 | 212.86                           |
| 10.00    | 482.00           | 0.03                      | -0.03                 | 0.04                            | 318.43                      | -0.63                       | -0.36                      | 0.73                                 | 210.00                           |
| 10.50    | 481.50           | -0.04                     | 0.00                  | 0.05                            | 176.31                      | -0.66                       | -0.34                      | 0.74                                 | 207.09                           |
| 11.00    | 481.00           | 0.00                      | -0.02                 | 0.02                            | 255.00                      | -0.61                       | -0.34                      | 0.70                                 | 208.98                           |
| 11.50    | 480.50           | -0.02                     | -0.02                 | 0.03                            | 236.57                      | -0.61                       | -0.32                      | 0.69                                 | 207.92                           |
| 12.00    | 480.00           | 0.04                      | 0.02                  | 0.05                            | 30.00                       | -0.59                       | -0.30                      | 0.66                                 | 206.76                           |
| 12.50    | 479.50           | 0.02                      | -0.03                 | 0.04                            | 300.00                      | -0.64                       | -0.32                      | 0.71                                 | 206.99                           |
| 13.00    | 479.00           | -0.01                     | 0.02                  | 0.03                            | 120.00                      | -0.65                       | -0.29                      | 0.72                                 | 203.99                           |
| 13.50    | 478.50           | 0.01                      | -0.01                 | 0.01                            | 300.00                      | -0.64                       | -0.31                      | 0.71                                 | 205.99                           |
| 14.00    | 478.00           | -0.02                     | -0.01                 | 0.03                            | 210.00                      | -0.65                       | -0.30                      | 0.72                                 | 204.99                           |
| 14.50    | 477.50           | 0.01                      | 0.03                  | 0.04                            | 75.00                       | -0.63                       | -0.29                      | 0.69                                 | 204.81                           |
| 15.00    | 477.00           | 0.00                      | -0.06                 | 0.06                            | 273.43                      | -0.64                       | -0.32                      | 0.71                                 | 206.99                           |
| 15.50    | 476.50           | -0.04                     | -0.01                 | 0.04                            | 191.57                      | -0.64                       | -0.27                      | 0.69                                 | 202.75                           |
| 16.00    | 476.00           | -0.03                     | 0.07                  | 0.08                            | 110.54                      | -0.60                       | -0.26                      | 0.65                                 | 203.42                           |
| 16.50    | 475.50           | -0.01                     | 0.01                  | 0.01                            | 120.00                      | -0.57                       | -0.33                      | 0.66                                 | 210.00                           |
| 17.00    | 475.00           | -0.04                     | -0.01                 | 0.04                            | 191.57                      | -0.57                       | -0.34                      | 0.66                                 | 211.08                           |
| 17.50    | 474.50           | -0.04                     | -0.01                 | 0.04                            | 191.57                      | -0.53                       | -0.33                      | 0.63                                 | 212.29                           |
| 18.00    | 474.00           | -0.02                     | -0.04                 | 0.05                            | 243.69                      | -0.49                       | -0.33                      | 0.59                                 | 213.65                           |
| 18.50    | 473.50           | 0.02                      | 0.01                  | 0.03                            | 30.00                       | -0.47                       | -0.29                      | 0.55                                 | 211.30                           |
| 19.00    | 473.00           | 0.01                      | -0.05                 | 0.05                            | 285.96                      | -0.49                       | -0.30                      | 0.58                                 | 211.25                           |
| 19.50    | 472.50           | -0.01                     | -0.03                 | 0.04                            | 255.00                      | -0.51                       | -0.25                      | 0.56                                 | 206.19                           |
| 20.00    | 472.00           | 0.01                      | -0.05                 | 0.05                            | 285.96                      | -0.50                       | -0.21                      | 0.54                                 | 203.37                           |
| 20.50    | 471.50           | -0.03                     | 0.01                  | 0.04                            | 165.00                      | -0.51                       | -0.17                      | 0.54                                 | 197.91                           |
| 21.00    | 471.00           | -0.09                     | -0.05                 | 0.10                            | 210.00                      | -0.48                       | -0.17                      | 0.51                                 | 200.07                           |
| 21.50    | 470.50           | -0.10                     | -0.07                 | 0.13                            | 215.71                      | -0.39                       | -0.12                      | 0.41                                 | 197.66                           |
| 22.00    | 470.00           | 0.09                      | 0.02                  | 0.09                            | 14.05                       | -0.29                       | -0.05                      | 0.29                                 | 190.02                           |
| 22.50    | 469.50           | -0.03                     | -0.07                 | 0.08                            | 248.66                      | -0.38                       | -0.07                      | 0.38                                 | 190.97                           |
| 23.00    | 469.00           | 0.05                      | 0.04                  | 0.06                            | 41.31                       | -0.35                       | 0.00                       | 0.35                                 | 179.74                           |
| 23.50    | 468.50           | -0.15                     | 0.13                  | 0.20                            | 138.43                      | -0.40                       | -0.04                      | 0.40                                 | 185.85                           |
| 24.00    | 468.00           | 0.03                      | 0.02                  | 0.04                            | 30.00                       | -0.25                       | -0.17                      | 0.30                                 | 214.76                           |
| 24.50    | 467.50           | -0.09                     | 0.09                  | 0.13                            | 136.70                      | -0.28                       | -0.19                      | 0.34                                 | 214.24                           |

| Misura inclinometrica del 01/12/2022 00:00 |        |       |       |      |        |       |       |      |        |
|--------------------------------------------|--------|-------|-------|------|--------|-------|-------|------|--------|
| 25.00                                      | 467.00 | -0.01 | -0.09 | 0.09 | 266.31 | -0.18 | -0.28 | 0.34 | 236.57 |
| 25.50                                      | 466.50 | -0.05 | -0.07 | 0.08 | 236.57 | -0.18 | -0.19 | 0.26 | 226.70 |
| 26.00                                      | 466.00 | -0.01 | 0.05  | 0.05 | 105.96 | -0.13 | -0.12 | 0.18 | 222.09 |
| 26.50                                      | 465.50 | -0.09 | 0.06  | 0.11 | 146.57 | -0.12 | -0.17 | 0.21 | 235.02 |
| 27.00                                      | 465.00 | -0.02 | -0.09 | 0.09 | 255.00 | -0.03 | -0.23 | 0.23 | 263.75 |
| 27.50                                      | 464.50 | -0.02 | -0.04 | 0.05 | 243.69 | 0.00  | -0.15 | 0.15 | 269.04 |
| 28.00                                      | 464.00 | 0.03  | 0.02  | 0.04 | 30.00  | 0.02  | -0.11 | 0.11 | 279.44 |
| 28.50                                      | 463.50 | -0.07 | 0.00  | 0.07 | 179.04 | -0.01 | -0.12 | 0.12 | 263.13 |
| 29.00                                      | 463.00 | 0.06  | -0.13 | 0.14 | 294.81 | 0.06  | -0.13 | 0.14 | 294.81 |

## Misura inclinometrica del 16/11/2023 12:37

Data/Ora: 16/11/2023 12:37:47

Sequenza Letture: A1A3B1B3

ID Sonda (serial number): S222643

Sensibilità sonda [sin α]: 20000

Ch A convenzione: -1

Ch B convenzione: -1

Profondità 1.a lettura [m]: 0.50

Intervallo letture [m]: 0.50

Misura di riferimento: Misura inclinometrica del 18/12/2018 00:00

Nuova sonda: Misura inclinometrica del 01/12/2022 15:10

## Elaborazione dati - misura del 16/11/2023 12:37

| Prof [m] | Quota [m<br>slm] | Mov. rel.<br>Nord<br>[mm] | Mov. rel.<br>Est [mm] | Mov. rel.<br>Risultante<br>[mm] | Azimuth<br>Mov. rel.<br>[°] | Σ Mov.<br>rel. Nord<br>[mm] | Σ Mov.<br>rel. Est<br>[mm] | Σ Mov.<br>rel.<br>Risultante<br>[mm] | Σ<br>Azimuth<br>Mov. rel.<br>[°] |
|----------|------------------|---------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------------|----------------------------|--------------------------------------|----------------------------------|
| 0.50     | 491.50           | 0.75                      | 0.62                  | 0.97                            | 39.53                       | 1.98                        | 4.86                       | 5.25                                 | 67.80                            |
| 1.00     | 491.00           | -0.11                     | 0.33                  | 0.34                            | 108.32                      | 1.24                        | 4.24                       | 4.42                                 | 73.75                            |
| 1.50     | 490.50           | -0.92                     | -0.20                 | 0.94                            | 192.21                      | 1.34                        | 3.91                       | 4.14                                 | 71.04                            |
| 2.00     | 490.00           | -0.74                     | -0.30                 | 0.80                            | 201.98                      | 2.26                        | 4.11                       | 4.70                                 | 61.17                            |
| 2.50     | 489.50           | -0.04                     | -0.17                 | 0.17                            | 258.01                      | 3.01                        | 4.41                       | 5.34                                 | 55.72                            |
| 3.00     | 489.00           | -0.07                     | -0.13                 | 0.15                            | 240.23                      | 3.04                        | 4.58                       | 5.50                                 | 56.39                            |
| 3.50     | 488.50           | -0.12                     | -0.15                 | 0.19                            | 230.73                      | 3.12                        | 4.71                       | 5.65                                 | 56.49                            |
| 4.00     | 488.00           | -0.04                     | -0.13                 | 0.14                            | 253.74                      | 3.24                        | 4.86                       | 5.84                                 | 56.30                            |
| 4.50     | 487.50           | 0.34                      | 0.31                  | 0.46                            | 41.90                       | 3.28                        | 4.99                       | 5.97                                 | 56.70                            |
| 5.00     | 487.00           | 0.52                      | 0.45                  | 0.69                            | 40.91                       | 2.94                        | 4.69                       | 5.53                                 | 57.92                            |
| 5.50     | 486.50           | 0.50                      | 0.44                  | 0.67                            | 41.76                       | 2.41                        | 4.23                       | 4.87                                 | 60.30                            |
| 6.00     | 486.00           | 1.75                      | 3.01                  | 3.49                            | 59.84                       | 1.92                        | 3.79                       | 4.25                                 | 63.16                            |
| 6.50     | 485.50           | 0.62                      | 1.01                  | 1.19                            | 58.48                       | 0.17                        | 0.77                       | 0.79                                 | 77.92                            |
| 7.00     | 485.00           | -0.02                     | 0.01                  | 0.02                            | 154.81                      | -0.46                       | -0.24                      | 0.51                                 | 207.68                           |
| 7.50     | 484.50           | -0.02                     | 0.07                  | 0.07                            | 107.63                      | -0.44                       | -0.25                      | 0.50                                 | 209.45                           |
| 8.00     | 484.00           | 0.06                      | -0.06                 | 0.09                            | 314.85                      | -0.42                       | -0.31                      | 0.52                                 | 216.98                           |
| 8.50     | 483.50           | 0.03                      | 0.01                  | 0.04                            | 15.29                       | -0.48                       | -0.25                      | 0.54                                 | 207.79                           |
| 9.00     | 483.00           | 0.02                      | 0.01                  | 0.02                            | 15.81                       | -0.51                       | -0.26                      | 0.58                                 | 207.02                           |
| 9.50     | 482.50           | -0.01                     | -0.05                 | 0.05                            | 255.39                      | -0.53                       | -0.27                      | 0.60                                 | 206.60                           |
| 10.00    | 482.00           | 0.02                      | -0.01                 | 0.02                            | 322.62                      | -0.52                       | -0.22                      | 0.57                                 | 202.68                           |
| 10.50    | 481.50           | -0.06                     | 0.02                  | 0.06                            | 164.32                      | -0.54                       | -0.20                      | 0.58                                 | 200.72                           |
| 11.00    | 481.00           | -0.02                     | -0.01                 | 0.02                            | 203.38                      | -0.48                       | -0.22                      | 0.53                                 | 204.56                           |
| 11.50    | 480.50           | -0.02                     | -0.03                 | 0.03                            | 227.50                      | -0.46                       | -0.21                      | 0.51                                 | 204.61                           |
| 12.00    | 480.00           | 0.09                      | 0.04                  | 0.10                            | 26.97                       | -0.44                       | -0.19                      | 0.48                                 | 203.02                           |
| 12.50    | 479.50           | 0.03                      | -0.03                 | 0.04                            | 313.82                      | -0.53                       | -0.23                      | 0.58                                 | 203.69                           |
| 13.00    | 479.00           | -0.02                     | 0.02                  | 0.03                            | 125.52                      | -0.56                       | -0.20                      | 0.59                                 | 200.02                           |
| 13.50    | 478.50           | 0.01                      | -0.01                 | 0.01                            | 317.24                      | -0.54                       | -0.23                      | 0.58                                 | 202.85                           |
| 14.00    | 478.00           | -0.03                     | -0.01                 | 0.04                            | 199.53                      | -0.55                       | -0.22                      | 0.59                                 | 201.84                           |
| 14.50    | 477.50           | 0.02                      | 0.06                  | 0.06                            | 75.08                       | -0.51                       | -0.21                      | 0.55                                 | 201.98                           |
| 15.00    | 477.00           | 0.02                      | 0.00                  | 0.02                            | 351.01                      | -0.53                       | -0.27                      | 0.59                                 | 206.83                           |
| 15.50    | 476.50           | -0.05                     | -0.02                 | 0.06                            | 195.84                      | -0.55                       | -0.27                      | 0.61                                 | 205.89                           |
| 16.00    | 476.00           | -0.04                     | 0.10                  | 0.11                            | 113.04                      | -0.49                       | -0.25                      | 0.55                                 | 206.89                           |
| 16.50    | 475.50           | -0.02                     | 0.02                  | 0.03                            | 138.11                      | -0.45                       | -0.35                      | 0.57                                 | 217.61                           |
| 17.00    | 475.00           | 0.00                      | -0.01                 | 0.01                            | 277.38                      | -0.43                       | -0.37                      | 0.57                                 | 220.41                           |
| 17.50    | 474.50           | -0.06                     | -0.02                 | 0.06                            | 199.43                      | -0.43                       | -0.36                      | 0.56                                 | 219.86                           |
| 18.00    | 474.00           | 0.01                      | -0.03                 | 0.03                            | 293.81                      | -0.38                       | -0.34                      | 0.51                                 | 222.16                           |
| 18.50    | 473.50           | 0.00                      | 0.01                  | 0.01                            | 83.49                       | -0.39                       | -0.31                      | 0.50                                 | 218.75                           |
| 19.00    | 473.00           | 0.01                      | -0.05                 | 0.05                            | 285.40                      | -0.39                       | -0.32                      | 0.51                                 | 219.70                           |
| 19.50    | 472.50           | -0.03                     | -0.03                 | 0.05                            | 224.96                      | -0.40                       | -0.27                      | 0.49                                 | 214.07                           |
| 20.00    | 472.00           | 0.02                      | -0.02                 | 0.03                            | 313.24                      | -0.37                       | -0.24                      | 0.44                                 | 212.92                           |
| 20.50    | 471.50           | -0.04                     | 0.00                  | 0.04                            | 176.42                      | -0.39                       | -0.22                      | 0.45                                 | 209.62                           |
| 21.00    | 471.00           | -0.07                     | -0.02                 | 0.07                            | 194.01                      | -0.35                       | -0.22                      | 0.42                                 | 212.26                           |
| 21.50    | 470.50           | -0.07                     | -0.07                 | 0.10                            | 223.79                      | -0.29                       | -0.21                      | 0.35                                 | 215.73                           |
| 22.00    | 470.00           | 0.06                      | -0.01                 | 0.06                            | 354.67                      | -0.22                       | -0.14                      | 0.26                                 | 212.63                           |
| 22.50    | 469.50           | -0.04                     | -0.05                 | 0.07                            | 234.54                      | -0.28                       | -0.13                      | 0.31                                 | 205.30                           |
| 23.00    | 469.00           | 0.09                      | -0.03                 | 0.09                            | 341.28                      | -0.24                       | -0.08                      | 0.25                                 | 197.93                           |
| 23.50    | 468.50           | -0.10                     | 0.12                  | 0.16                            | 129.59                      | -0.33                       | -0.05                      | 0.33                                 | 188.46                           |
| 24.00    | 468.00           | -0.03                     | 0.06                  | 0.07                            | 113.64                      | -0.22                       | -0.17                      | 0.28                                 | 217.57                           |

# Misura inclinometrica del 16/11/2023 12:37

|       |        |       |       |      |        |       |       |      |        |
|-------|--------|-------|-------|------|--------|-------|-------|------|--------|
| 24.50 | 467.50 | -0.04 | 0.07  | 0.08 | 117.24 | -0.20 | -0.23 | 0.31 | 229.73 |
| 25.00 | 467.00 | 0.00  | -0.11 | 0.11 | 268.70 | -0.16 | -0.30 | 0.34 | 241.81 |
| 25.50 | 466.50 | -0.02 | -0.03 | 0.04 | 234.30 | -0.16 | -0.19 | 0.25 | 230.04 |
| 26.00 | 466.00 | -0.06 | 0.05  | 0.08 | 137.26 | -0.14 | -0.16 | 0.21 | 229.21 |
| 26.50 | 465.50 | -0.05 | 0.09  | 0.10 | 118.70 | -0.08 | -0.21 | 0.23 | 249.78 |
| 27.00 | 465.00 | 0.01  | -0.11 | 0.11 | 274.00 | -0.03 | -0.30 | 0.30 | 264.25 |
| 27.50 | 464.50 | -0.01 | -0.02 | 0.03 | 245.87 | -0.04 | -0.19 | 0.20 | 258.90 |
| 28.00 | 464.00 | 0.00  | 0.00  | 0.00 | 296.82 | -0.03 | -0.17 | 0.17 | 260.99 |
| 28.50 | 463.50 | -0.09 | 0.01  | 0.09 | 174.44 | -0.03 | -0.16 | 0.16 | 260.07 |
| 29.00 | 463.00 | 0.06  | -0.17 | 0.18 | 290.10 | 0.06  | -0.17 | 0.18 | 290.10 |

## Misura inclinometrica del 13/02/2025 10:37

Data/Ora: 13/02/2025 10:37:03

Sequenza Letture: A1A3B1B3

ID Sonda (serial number): S222643

Sensibilità sonda [sin α]: 20000

Ch A convenzione: -1

Ch B convenzione: -1

Profondità 1.a lettura [m]: 0.50

Intervallo letture [m]: 0.50

Misura di riferimento: Misura inclinometrica del 18/12/2018 00:00

Nuova sonda: Misura inclinometrica del 01/12/2022 15:10

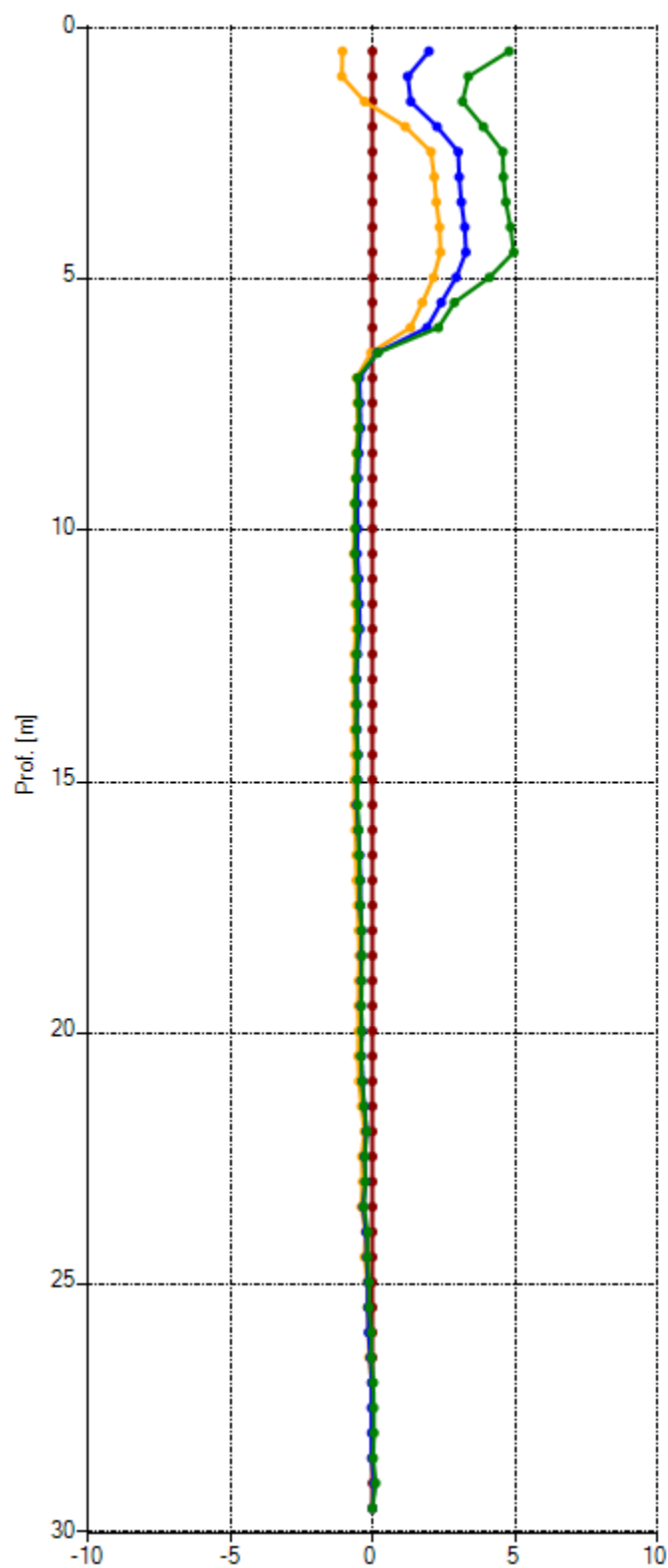
## Elaborazione dati - misura del 13/02/2025 10:37

| Prof [m] | Quota [m<br>slm] | Mov. rel.<br>Nord<br>[mm] | Mov. rel.<br>Est [mm] | Mov. rel.<br>Risultante<br>[mm] | Azimuth<br>Mov. rel.<br>[°] | Σ Mov.<br>rel. Nord<br>[mm] | Σ Mov.<br>rel. Est<br>[mm] | Σ Mov.<br>rel.<br>Risultante<br>[mm] | Σ<br>Azimuth<br>Mov. rel.<br>[°] |
|----------|------------------|---------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------------|----------------------------|--------------------------------------|----------------------------------|
| 0.50     | 491.50           | 1.43                      | 0.55                  | 1.53                            | 21.24                       | 4.80                        | 7.17                       | 8.63                                 | 56.23                            |
| 1.00     | 491.00           | 0.21                      | 0.41                  | 0.46                            | 63.09                       | 3.37                        | 6.62                       | 7.43                                 | 63.01                            |
| 1.50     | 490.50           | -0.73                     | -0.15                 | 0.75                            | 191.52                      | 3.16                        | 6.21                       | 6.96                                 | 63.00                            |
| 2.00     | 490.00           | -0.69                     | -0.30                 | 0.75                            | 203.69                      | 3.89                        | 6.35                       | 7.45                                 | 58.50                            |
| 2.50     | 489.50           | -0.02                     | -0.22                 | 0.22                            | 265.70                      | 4.58                        | 6.66                       | 8.08                                 | 55.47                            |
| 3.00     | 489.00           | -0.09                     | -0.18                 | 0.20                            | 244.80                      | 4.60                        | 6.87                       | 8.27                                 | 56.23                            |
| 3.50     | 488.50           | -0.16                     | -0.22                 | 0.27                            | 232.92                      | 4.68                        | 7.06                       | 8.47                                 | 56.43                            |
| 4.00     | 488.00           | -0.11                     | -0.20                 | 0.23                            | 240.93                      | 4.85                        | 7.27                       | 8.74                                 | 56.32                            |
| 4.50     | 487.50           | 0.85                      | 0.92                  | 1.26                            | 47.28                       | 4.96                        | 7.48                       | 8.97                                 | 56.44                            |
| 5.00     | 487.00           | 1.23                      | 1.07                  | 1.63                            | 40.94                       | 4.11                        | 6.55                       | 7.74                                 | 57.93                            |
| 5.50     | 486.50           | 0.57                      | 0.60                  | 0.83                            | 46.84                       | 2.88                        | 5.49                       | 6.20                                 | 62.32                            |
| 6.00     | 486.00           | 2.13                      | 3.84                  | 4.39                            | 61.01                       | 2.31                        | 4.88                       | 5.40                                 | 64.67                            |
| 6.50     | 485.50           | 0.71                      | 1.21                  | 1.41                            | 59.57                       | 0.19                        | 1.05                       | 1.06                                 | 79.91                            |
| 7.00     | 485.00           | -0.03                     | 0.01                  | 0.03                            | 169.58                      | -0.53                       | -0.17                      | 0.55                                 | 197.57                           |
| 7.50     | 484.50           | -0.02                     | 0.07                  | 0.08                            | 108.09                      | -0.50                       | -0.17                      | 0.53                                 | 199.10                           |
| 8.00     | 484.00           | 0.07                      | -0.07                 | 0.10                            | 315.66                      | -0.47                       | -0.25                      | 0.53                                 | 207.45                           |
| 8.50     | 483.50           | 0.03                      | 0.00                  | 0.03                            | 1.39                        | -0.54                       | -0.18                      | 0.57                                 | 198.31                           |
| 9.00     | 483.00           | 0.04                      | -0.01                 | 0.04                            | 351.78                      | -0.57                       | -0.18                      | 0.60                                 | 197.44                           |
| 9.50     | 482.50           | -0.01                     | -0.03                 | 0.03                            | 253.03                      | -0.61                       | -0.17                      | 0.64                                 | 195.87                           |
| 10.00    | 482.00           | 0.02                      | -0.01                 | 0.02                            | 321.40                      | -0.60                       | -0.14                      | 0.62                                 | 193.28                           |
| 10.50    | 481.50           | -0.06                     | 0.02                  | 0.06                            | 156.80                      | -0.62                       | -0.13                      | 0.63                                 | 191.86                           |
| 11.00    | 481.00           | -0.02                     | 0.01                  | 0.02                            | 160.75                      | -0.56                       | -0.15                      | 0.58                                 | 195.44                           |
| 11.50    | 480.50           | -0.03                     | -0.02                 | 0.04                            | 206.42                      | -0.54                       | -0.16                      | 0.56                                 | 196.68                           |
| 12.00    | 480.00           | 0.05                      | 0.05                  | 0.08                            | 44.31                       | -0.51                       | -0.15                      | 0.53                                 | 196.02                           |
| 12.50    | 479.50           | 0.02                      | -0.02                 | 0.04                            | 314.68                      | -0.56                       | -0.20                      | 0.60                                 | 199.45                           |
| 13.00    | 479.00           | -0.03                     | 0.03                  | 0.04                            | 137.01                      | -0.59                       | -0.17                      | 0.61                                 | 196.49                           |
| 13.50    | 478.50           | 0.01                      | -0.01                 | 0.01                            | 334.77                      | -0.56                       | -0.20                      | 0.59                                 | 199.94                           |
| 14.00    | 478.00           | -0.04                     | -0.01                 | 0.04                            | 186.74                      | -0.57                       | -0.20                      | 0.60                                 | 199.07                           |
| 14.50    | 477.50           | 0.02                      | 0.05                  | 0.05                            | 67.94                       | -0.52                       | -0.19                      | 0.56                                 | 200.05                           |
| 15.00    | 477.00           | -0.02                     | -0.01                 | 0.02                            | 213.06                      | -0.54                       | -0.24                      | 0.59                                 | 203.61                           |
| 15.50    | 476.50           | -0.03                     | -0.01                 | 0.04                            | 201.57                      | -0.52                       | -0.22                      | 0.57                                 | 203.22                           |
| 16.00    | 476.00           | -0.02                     | 0.10                  | 0.10                            | 98.84                       | -0.49                       | -0.21                      | 0.53                                 | 203.34                           |
| 16.50    | 475.50           | -0.03                     | 0.01                  | 0.03                            | 171.11                      | -0.47                       | -0.31                      | 0.57                                 | 213.41                           |
| 17.00    | 475.00           | -0.01                     | 0.01                  | 0.01                            | 159.93                      | -0.44                       | -0.32                      | 0.54                                 | 215.83                           |
| 17.50    | 474.50           | -0.05                     | -0.01                 | 0.05                            | 197.28                      | -0.42                       | -0.32                      | 0.53                                 | 217.17                           |
| 18.00    | 474.00           | -0.01                     | -0.06                 | 0.06                            | 260.23                      | -0.38                       | -0.31                      | 0.49                                 | 219.17                           |
| 18.50    | 473.50           | 0.01                      | -0.01                 | 0.01                            | 323.14                      | -0.37                       | -0.25                      | 0.44                                 | 214.23                           |
| 19.00    | 473.00           | 0.01                      | -0.04                 | 0.04                            | 286.06                      | -0.38                       | -0.24                      | 0.45                                 | 212.43                           |
| 19.50    | 472.50           | -0.01                     | -0.04                 | 0.04                            | 252.16                      | -0.39                       | -0.20                      | 0.44                                 | 207.75                           |
| 20.00    | 472.00           | 0.02                      | -0.04                 | 0.04                            | 300.64                      | -0.38                       | -0.17                      | 0.41                                 | 203.76                           |
| 20.50    | 471.50           | -0.04                     | 0.00                  | 0.04                            | 176.92                      | -0.40                       | -0.13                      | 0.42                                 | 197.67                           |
| 21.00    | 471.00           | -0.06                     | -0.02                 | 0.06                            | 194.99                      | -0.36                       | -0.13                      | 0.38                                 | 199.77                           |
| 21.50    | 470.50           | -0.10                     | -0.11                 | 0.15                            | 229.23                      | -0.30                       | -0.11                      | 0.32                                 | 200.73                           |
| 22.00    | 470.00           | 0.07                      | -0.02                 | 0.08                            | 345.27                      | -0.20                       | 0.00                       | 0.20                                 | 180.04                           |
| 22.50    | 469.50           | -0.02                     | -0.07                 | 0.08                            | 251.22                      | -0.27                       | 0.02                       | 0.28                                 | 175.99                           |
| 23.00    | 469.00           | 0.05                      | 0.00                  | 0.05                            | 359.92                      | -0.25                       | 0.09                       | 0.27                                 | 160.17                           |
| 23.50    | 468.50           | -0.13                     | 0.18                  | 0.22                            | 126.76                      | -0.30                       | 0.09                       | 0.32                                 | 163.40                           |
| 24.00    | 468.00           | 0.01                      | 0.06                  | 0.06                            | 84.70                       | -0.17                       | -0.09                      | 0.19                                 | 207.38                           |

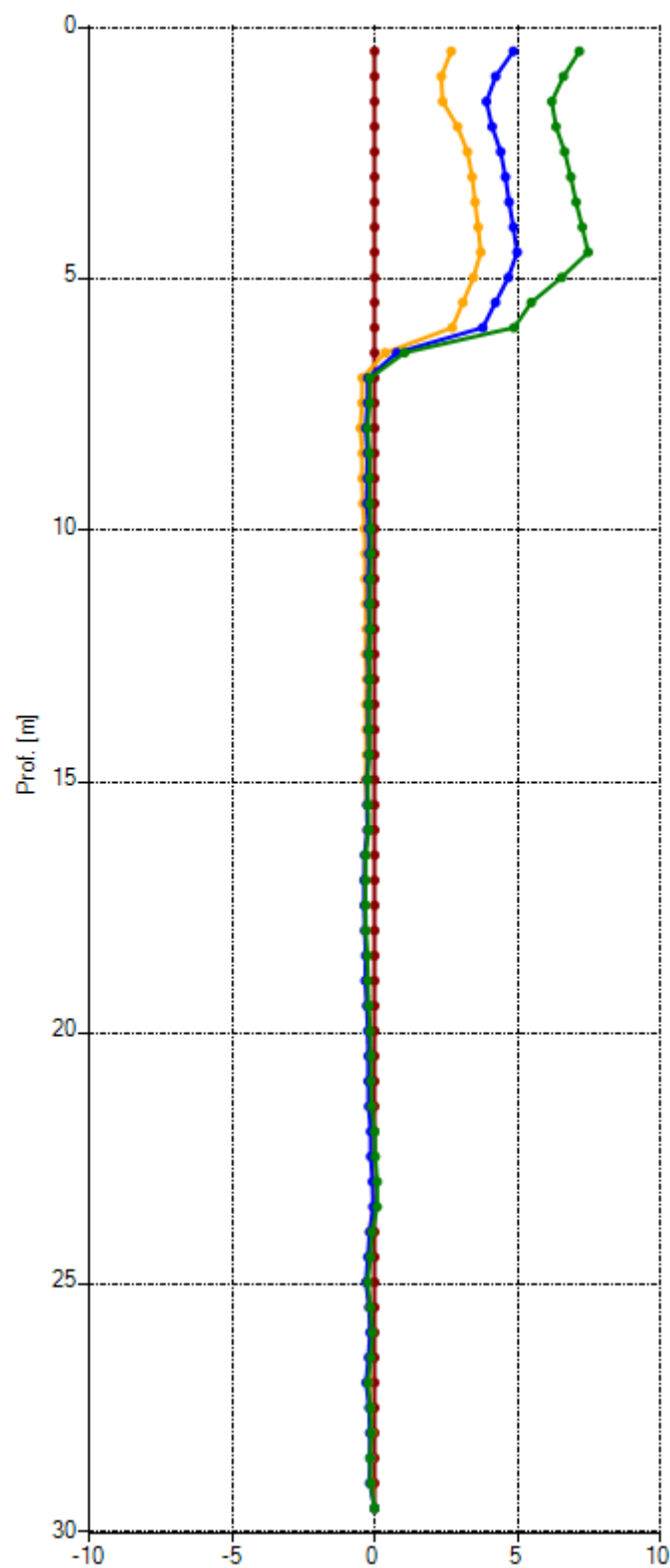
# Misura inclinometrica del 13/02/2025 10:37

|       |        |       |       |      |        |       |       |      |        |
|-------|--------|-------|-------|------|--------|-------|-------|------|--------|
| 24.50 | 467.50 | -0.05 | 0.09  | 0.11 | 118.93 | -0.18 | -0.15 | 0.23 | 219.96 |
| 25.00 | 467.00 | -0.01 | -0.10 | 0.10 | 265.74 | -0.12 | -0.24 | 0.27 | 242.81 |
| 25.50 | 466.50 | -0.07 | -0.06 | 0.09 | 219.86 | -0.12 | -0.14 | 0.18 | 230.33 |
| 26.00 | 466.00 | -0.01 | 0.05  | 0.05 | 103.48 | -0.05 | -0.08 | 0.10 | 240.20 |
| 26.50 | 465.50 | -0.07 | 0.11  | 0.12 | 122.08 | -0.04 | -0.13 | 0.14 | 255.00 |
| 27.00 | 465.00 | -0.01 | -0.10 | 0.10 | 263.84 | 0.03  | -0.24 | 0.24 | 277.32 |
| 27.50 | 464.50 | -0.01 | -0.02 | 0.02 | 249.89 | 0.04  | -0.14 | 0.15 | 286.13 |
| 28.00 | 464.00 | 0.02  | 0.03  | 0.04 | 56.32  | 0.05  | -0.12 | 0.13 | 291.82 |
| 28.50 | 463.50 | -0.08 | -0.02 | 0.09 | 191.38 | 0.03  | -0.15 | 0.16 | 279.71 |
| 29.00 | 463.00 | 0.11  | -0.14 | 0.18 | 308.76 | 0.11  | -0.14 | 0.18 | 308.76 |

Spostamento Nord [mm]



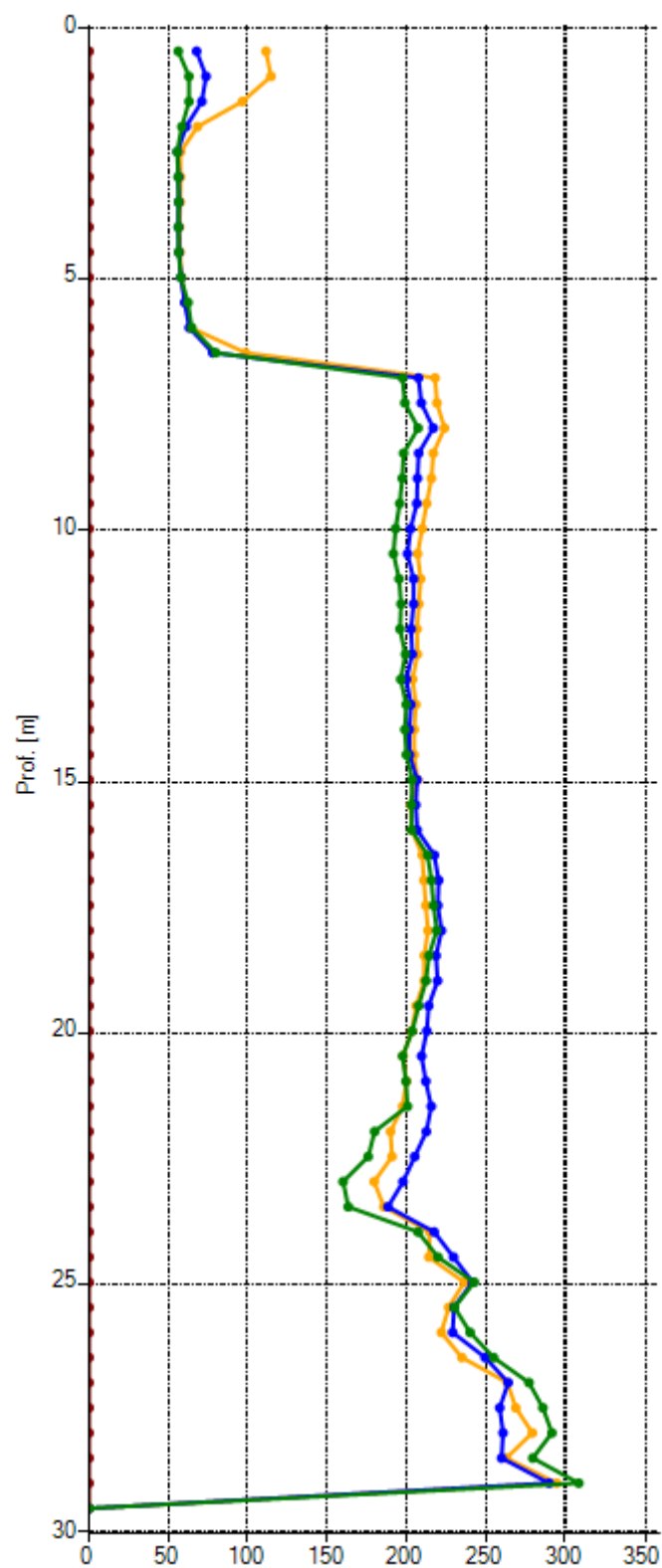
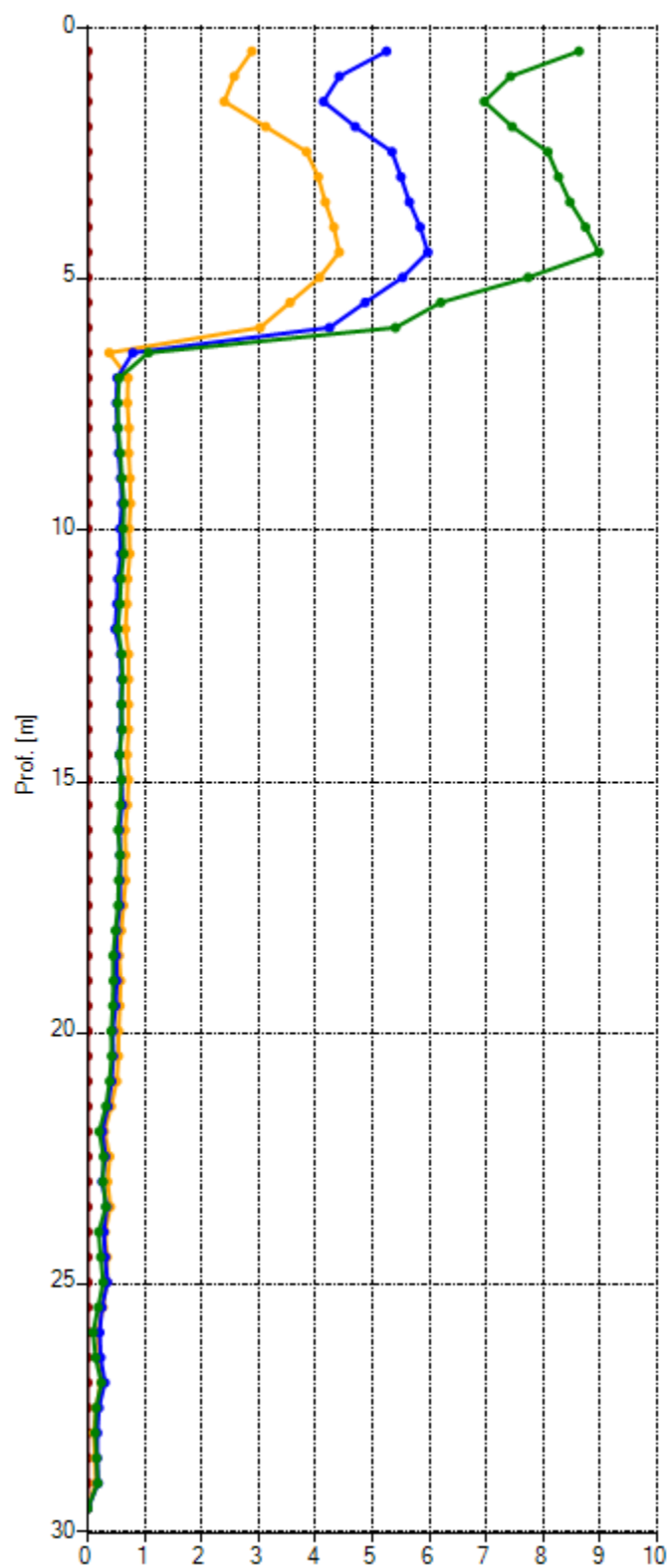
Spostamento Est [mm]



■ 13/02/2025 10:37:03 
 ■ 16/11/2023 12:37:47 
 ■ 01/12/2022 00:00:00 
 ■ 18/12/2018 00:00:00  
 Misura inclinometrica di riferimento 18/12/2018 00:00

Curva cumulata [mm]

Azimuth [°]



■ 13/02/2025 10:37:03 
 ■ 16/11/2023 12:37:47 
 ■ 01/12/2022 00:00:00 
 ■ 18/12/2018 00:00:00  
 Misura inclinometrica di riferimento 18/12/2018 00:00