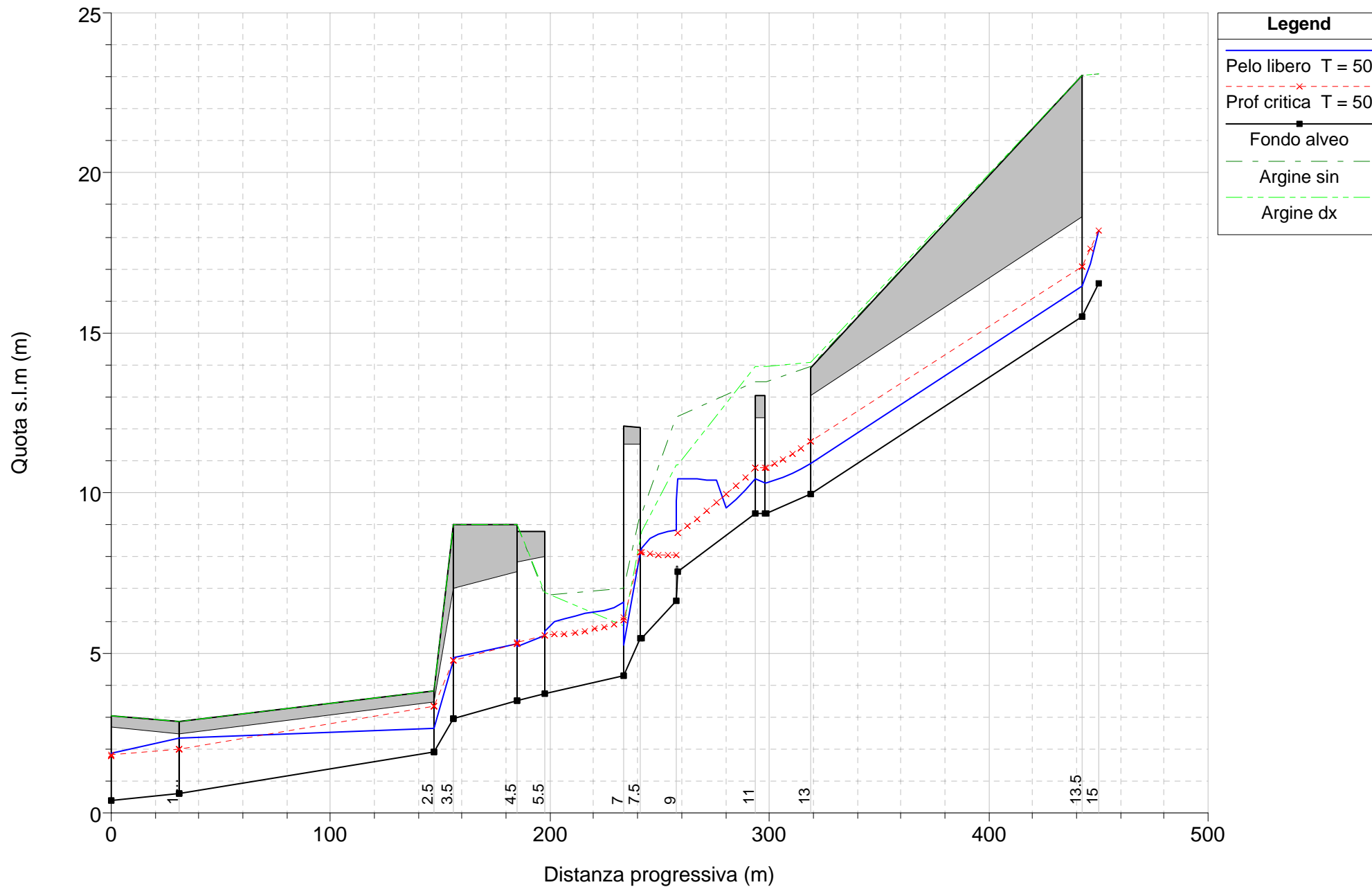


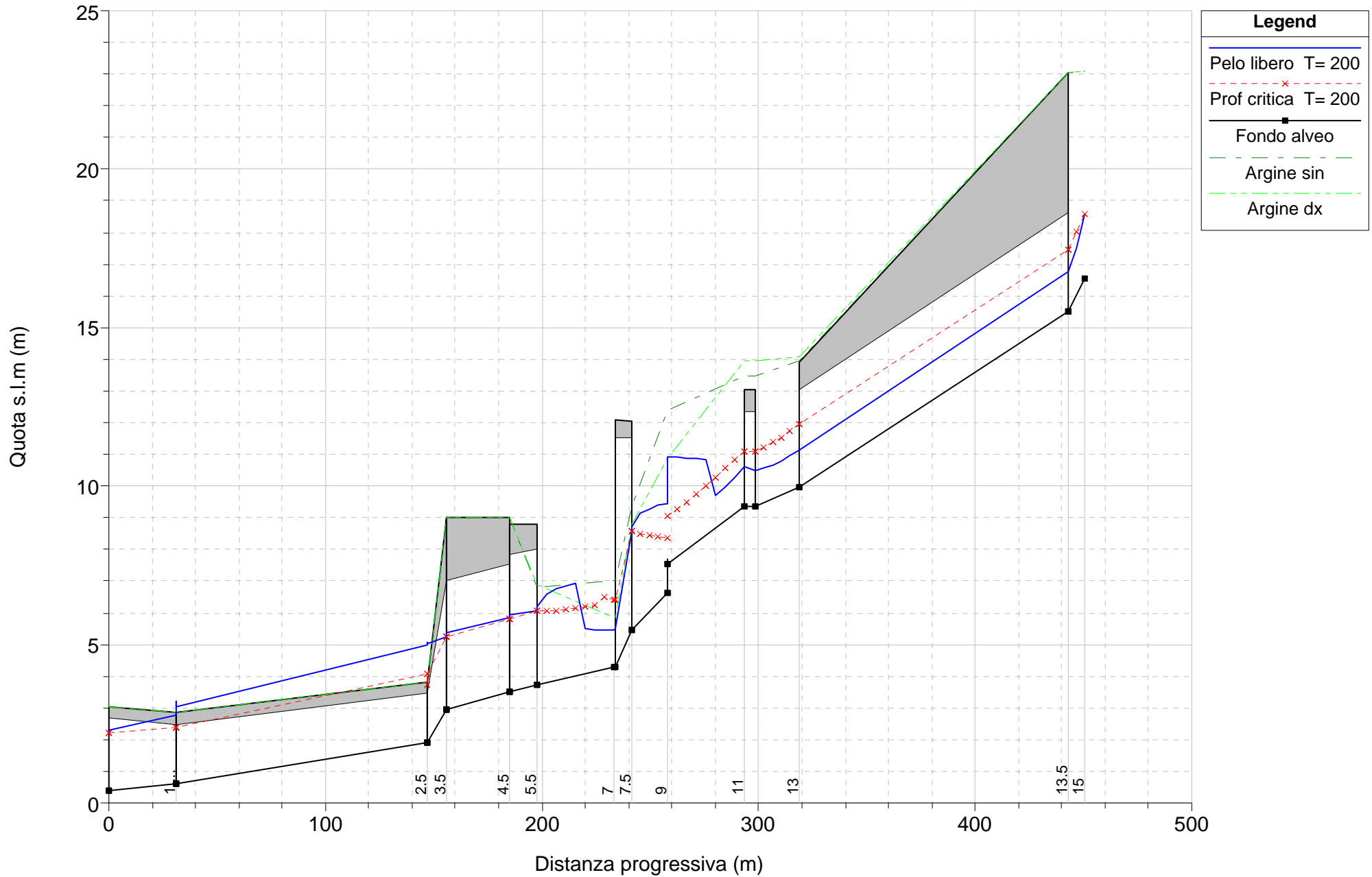
**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

RIO RIANELLO

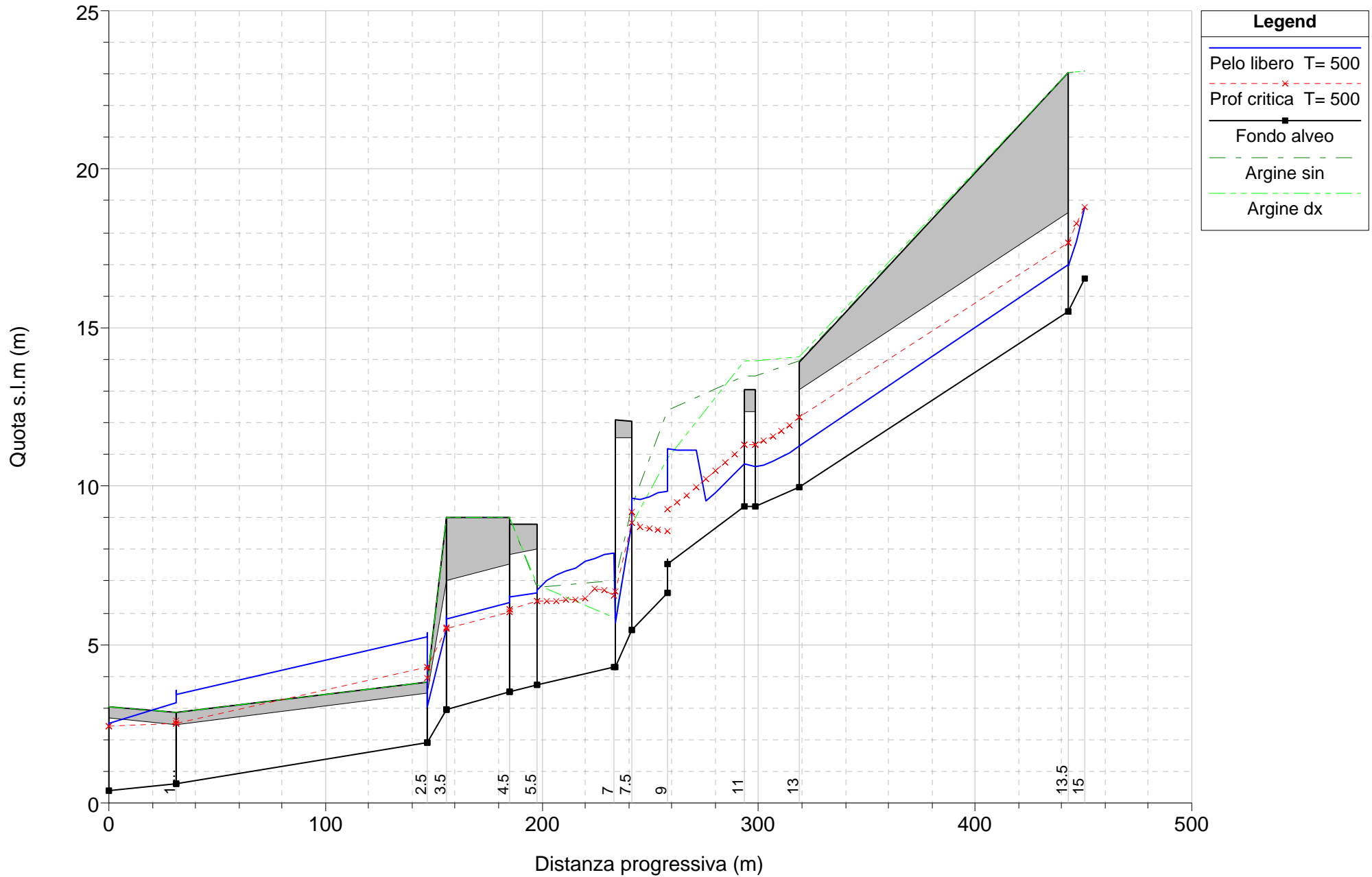
Rio Rianello – profilo longitudinale di moto permanente T=50 anni



Rio Rianello – profilo longitudinale di moto permanente T=200 anni



Rio Buraxe – profilo longitudinale di moto permanente T=500 anni



GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO
LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI

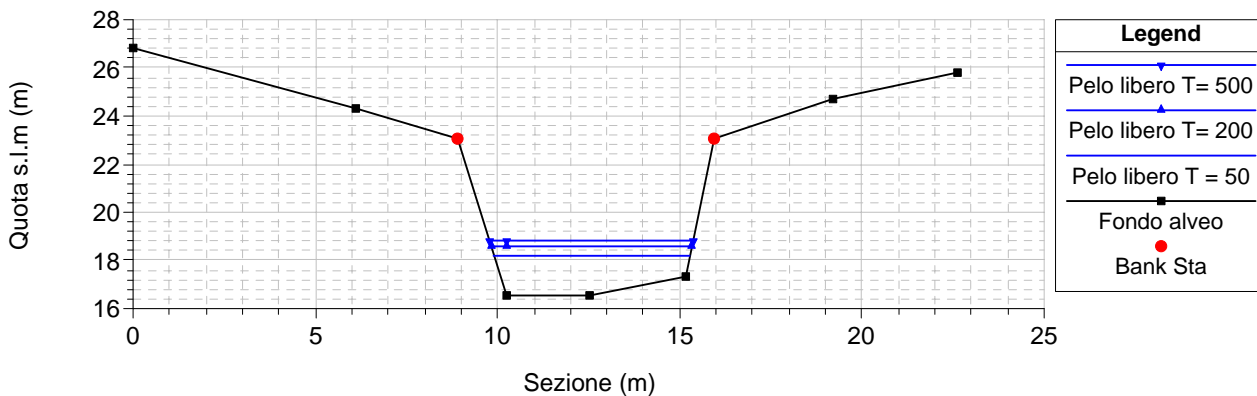
RIO RIANELLO

DALLA SEZ. 15
ALLA SEZ. 1

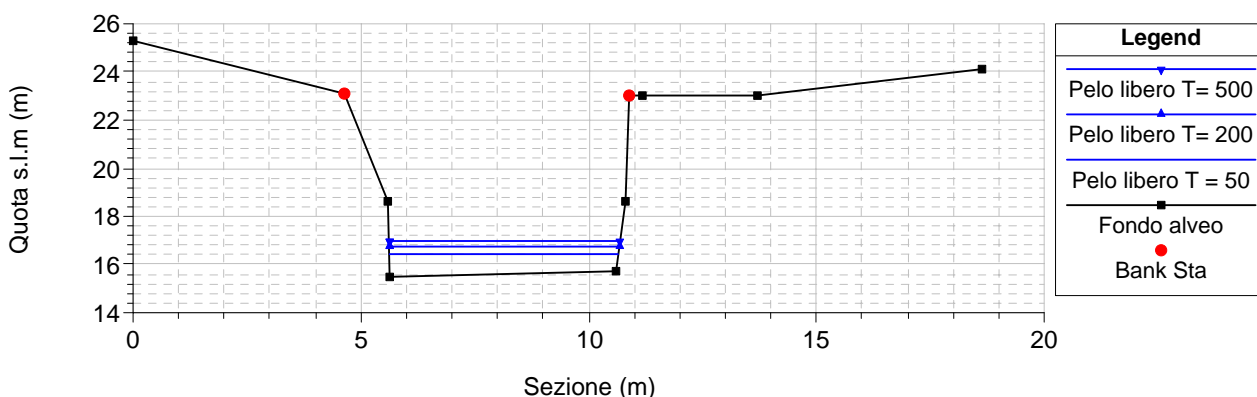
RIO RIANELLO

Sezioni trasversali

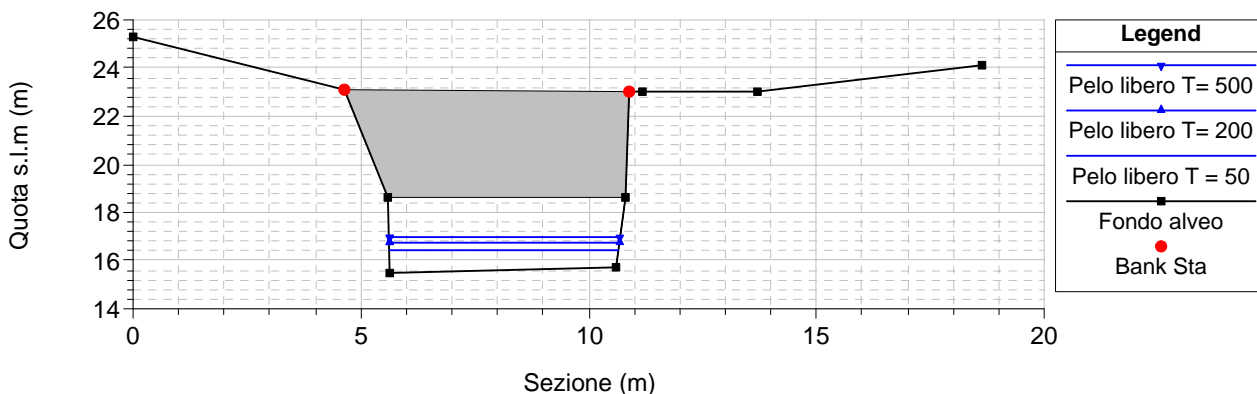
RS = 15



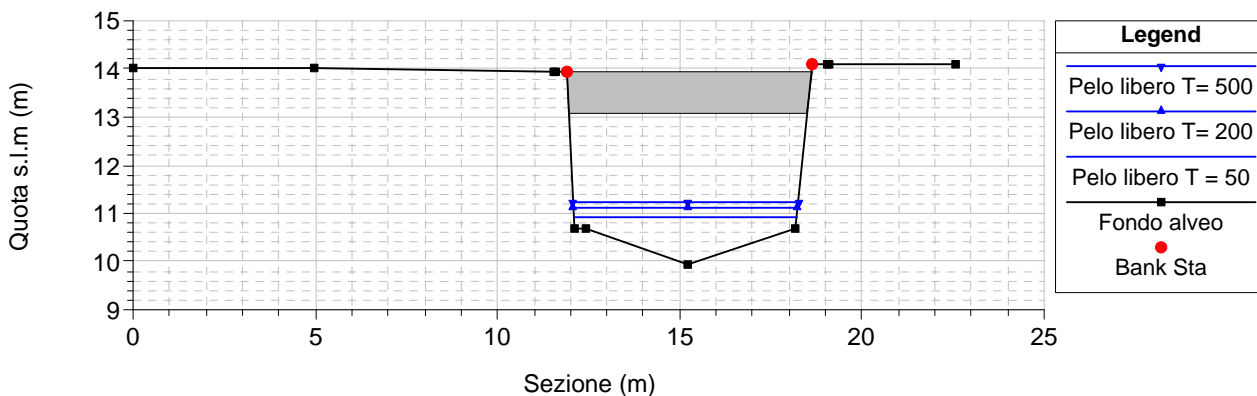
RS = 14



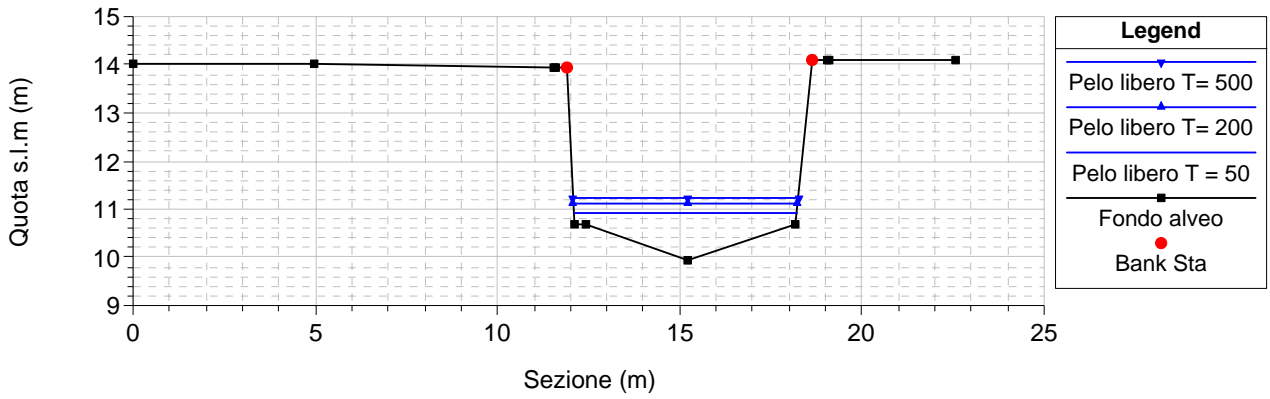
RS = 13.5 BR



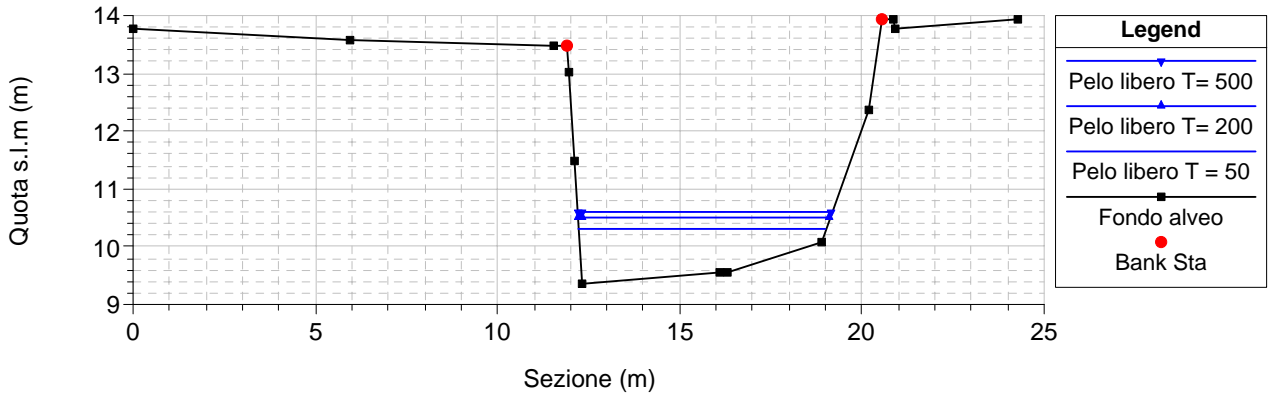
RS = 13.5 BR



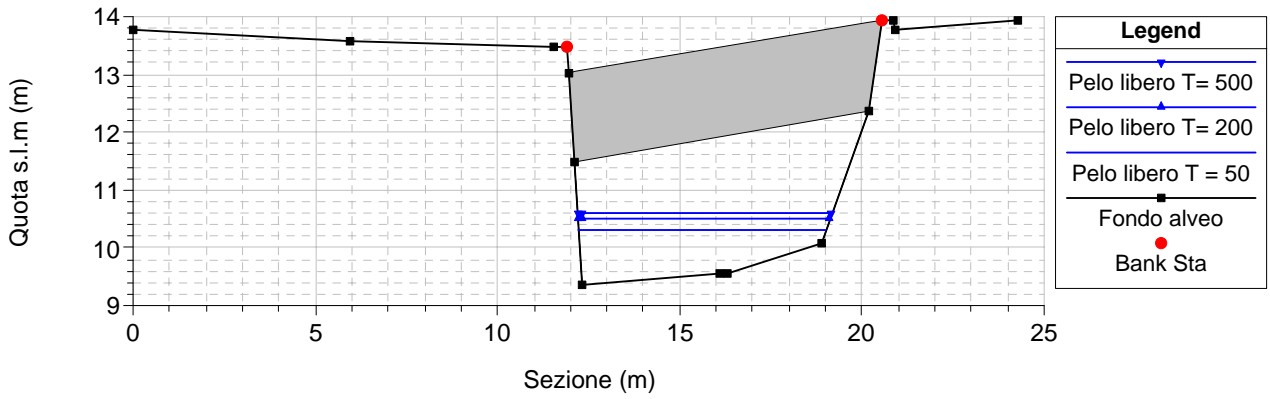
RS = 13



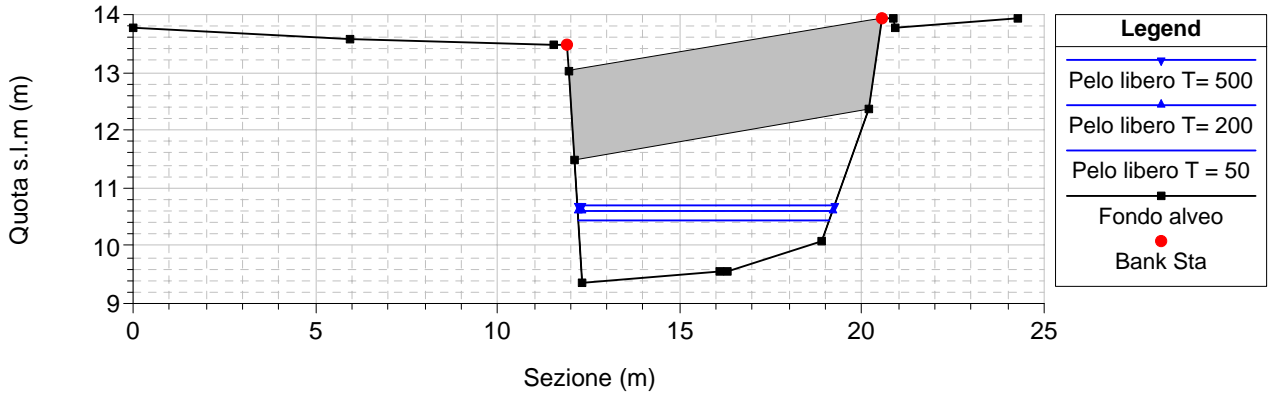
RS = 12



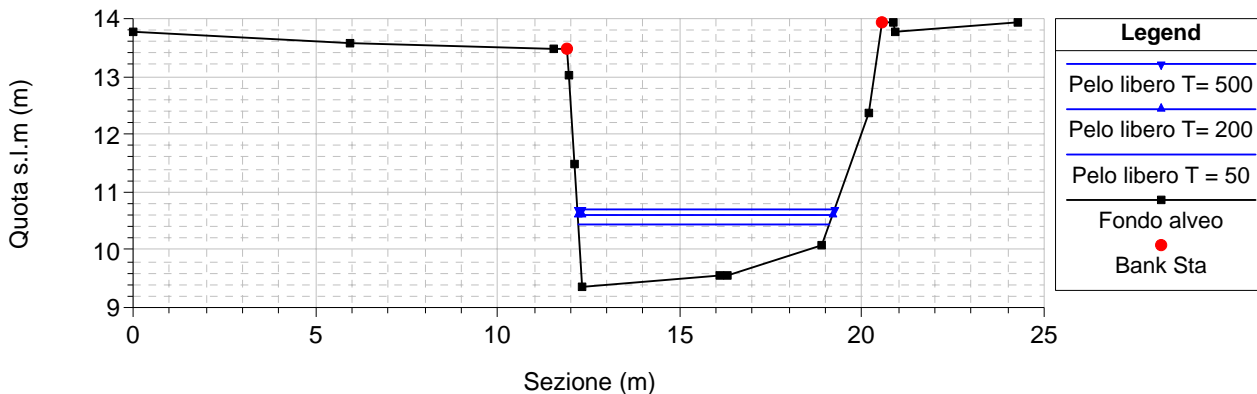
RS = 11.5 BR



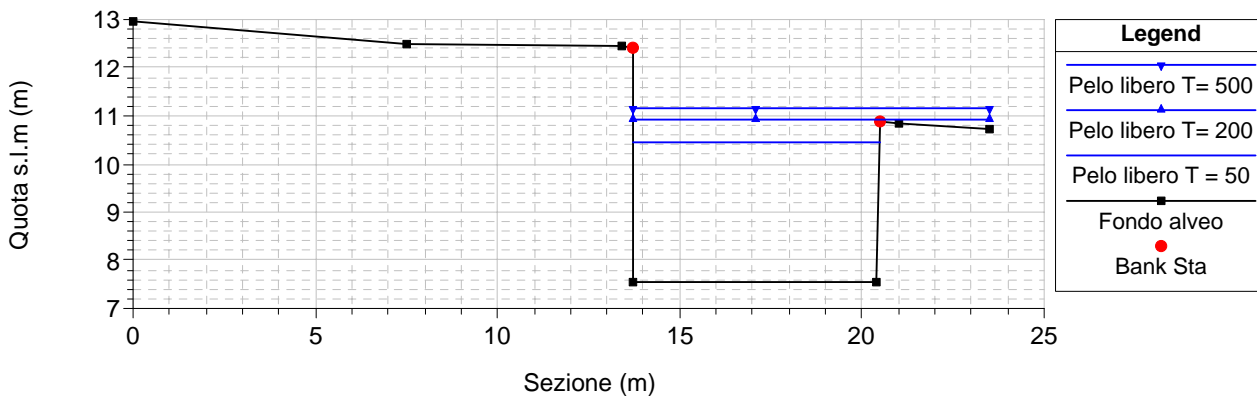
RS = 11.5 BR



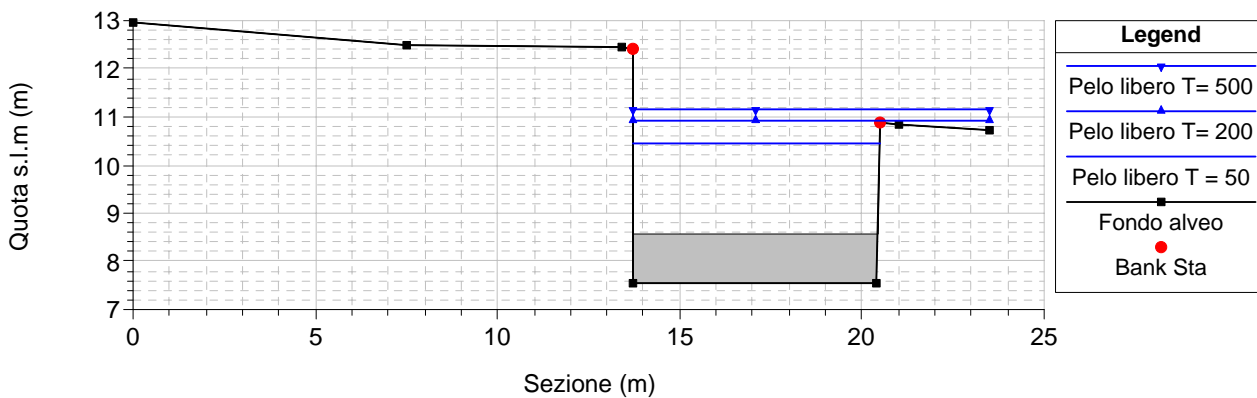
RS = 11



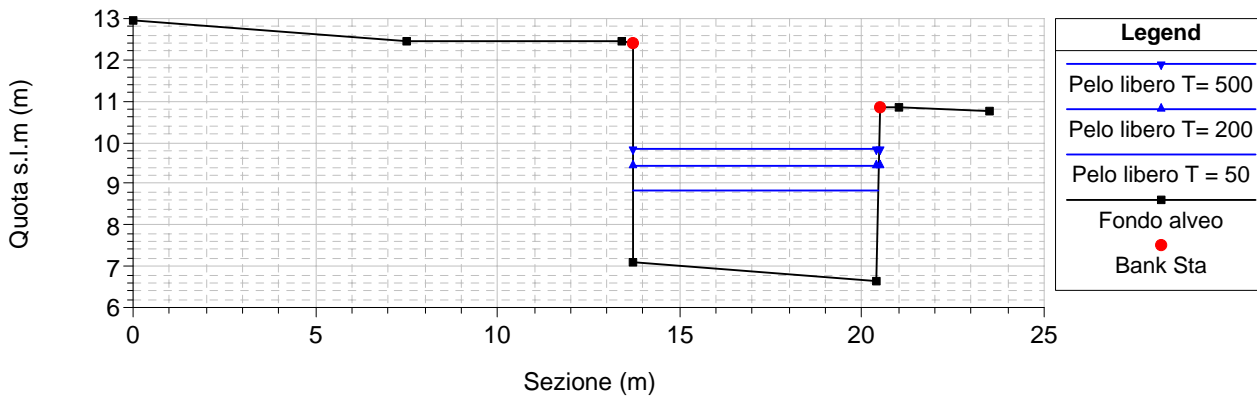
RS = 10



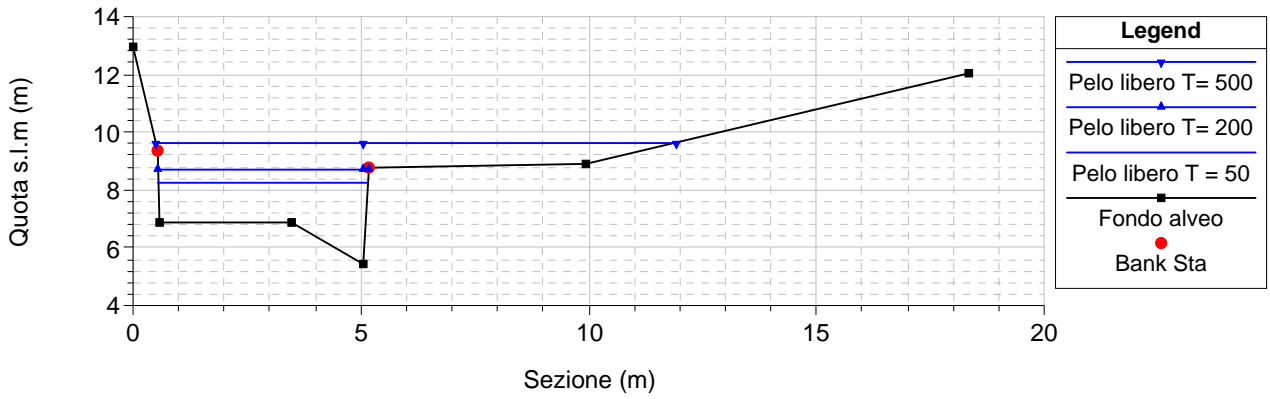
RS = 9.5 IS



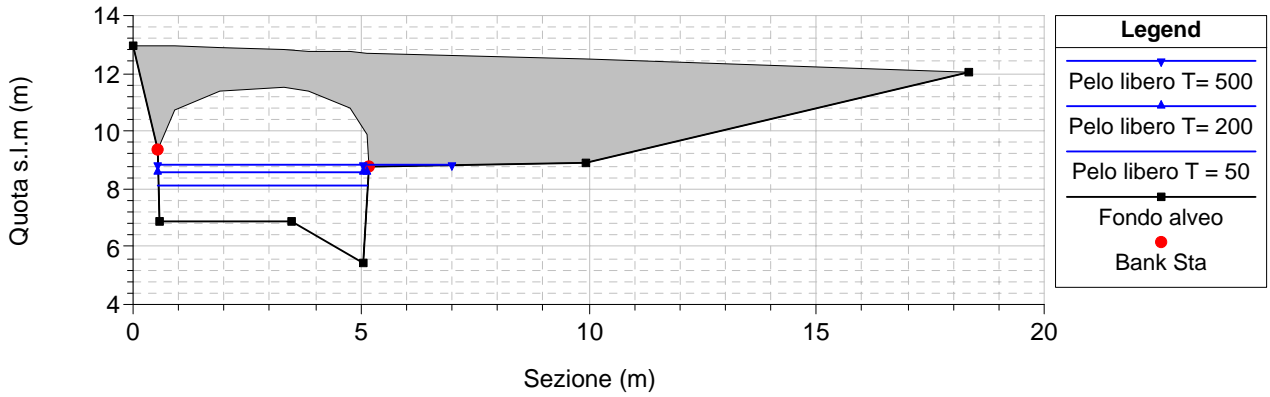
RS = 9



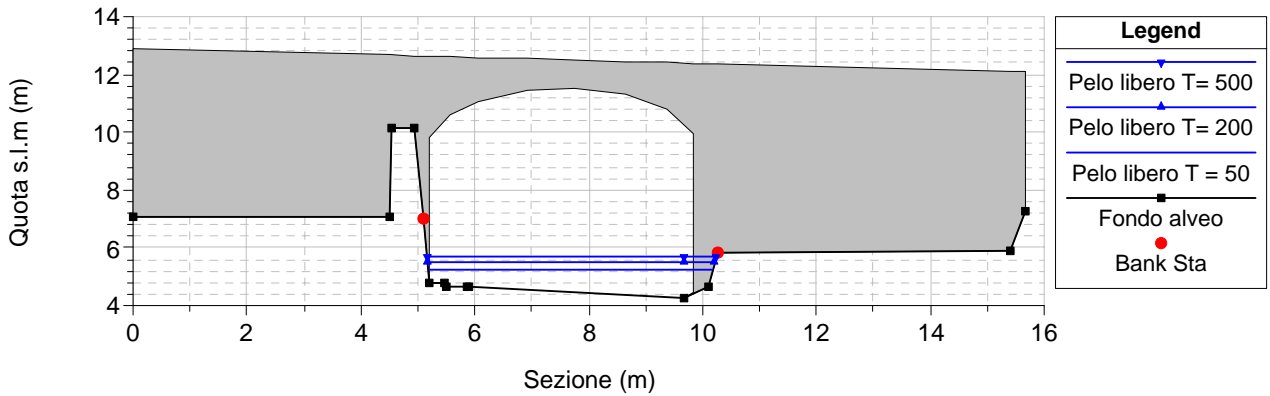
RS = 8



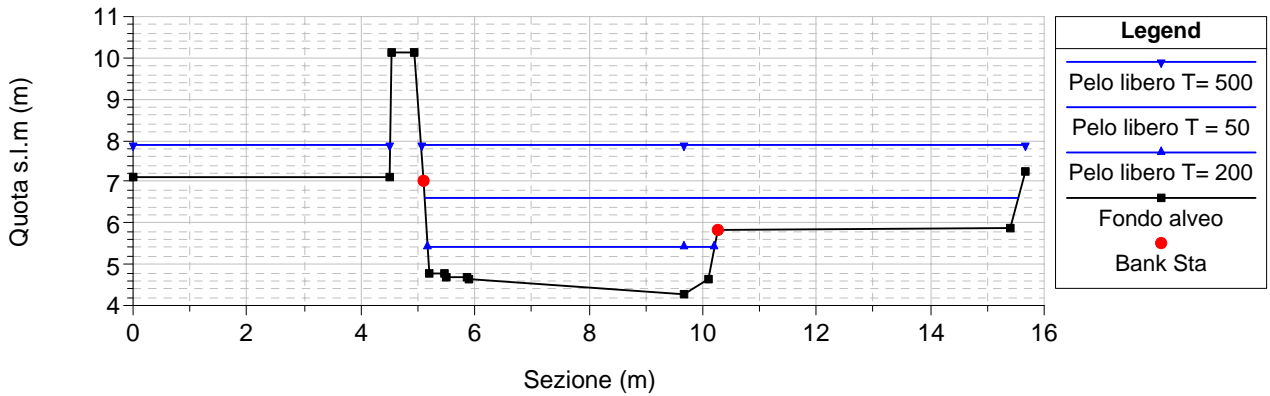
RS = 7.5 BR



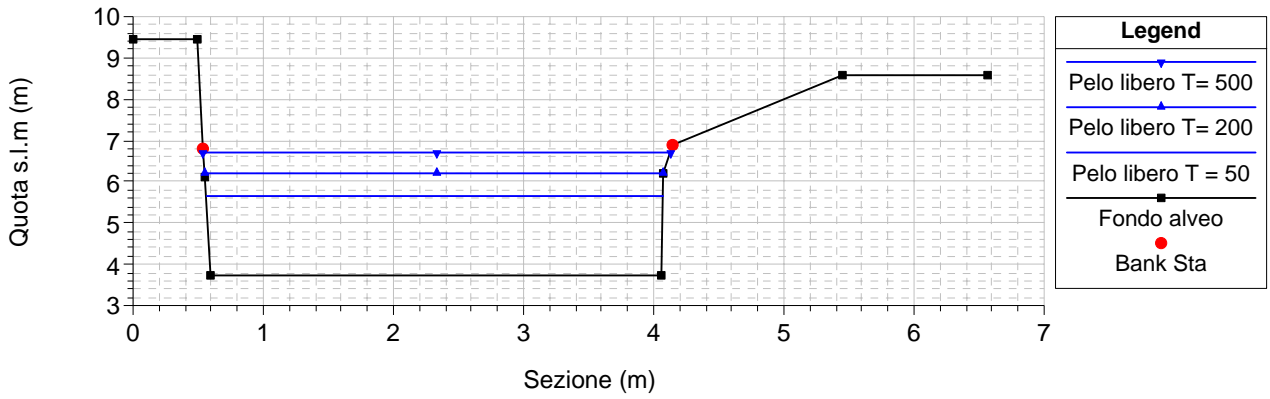
RS = 7.5 BR



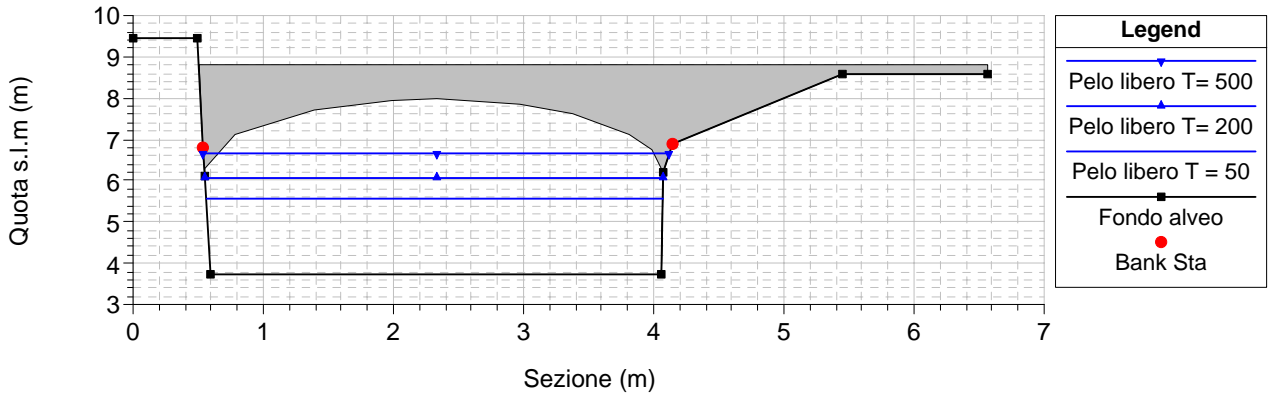
RS = 7



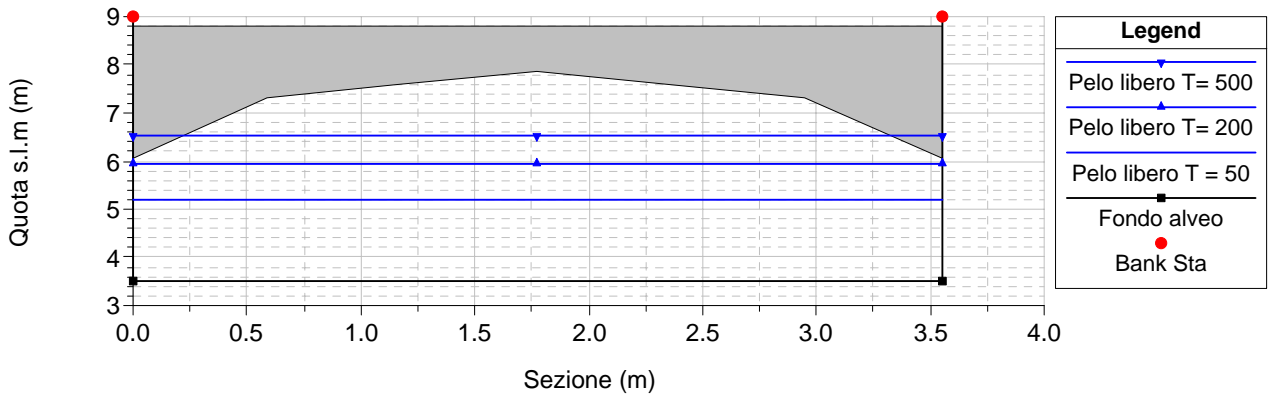
RS = 6



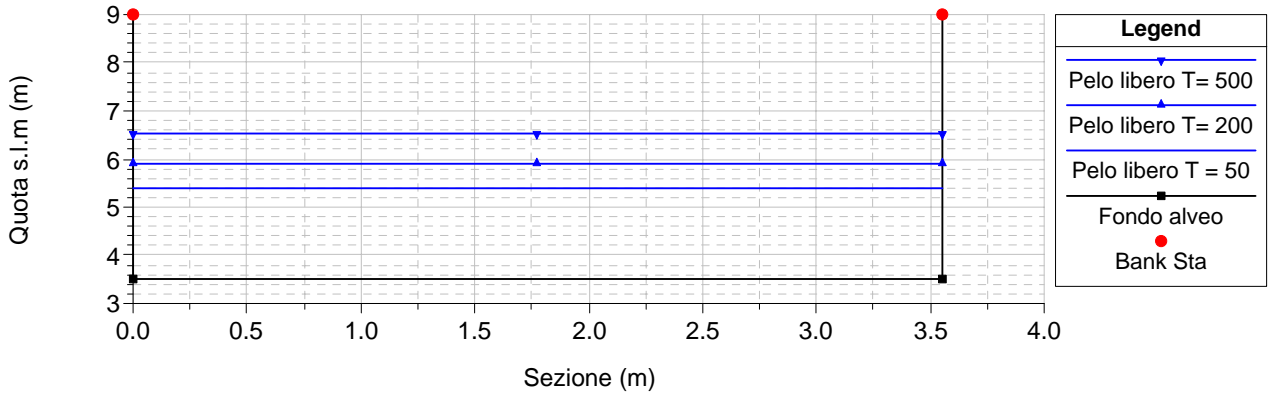
RS = 5.5 BR



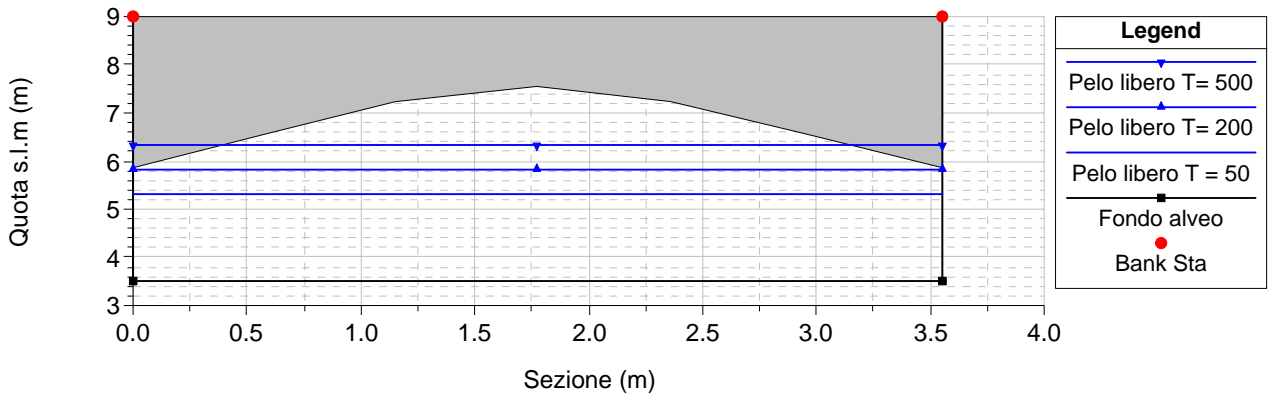
RS = 5.5 BR



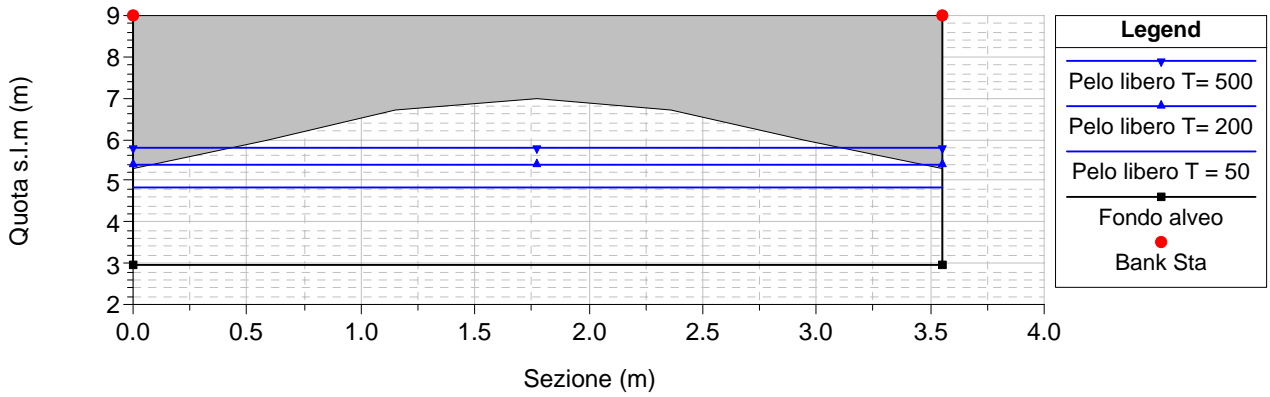
RS = 5



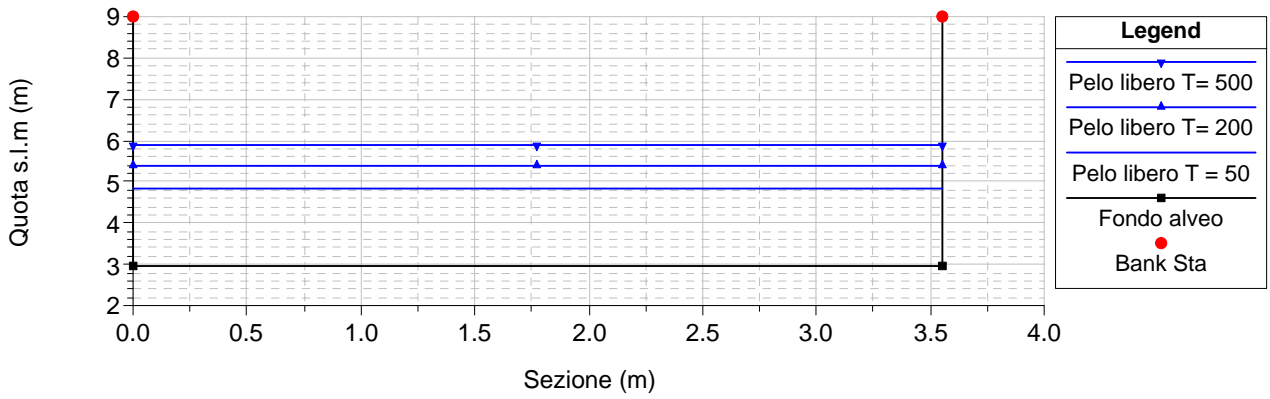
RS = 4.5 BR



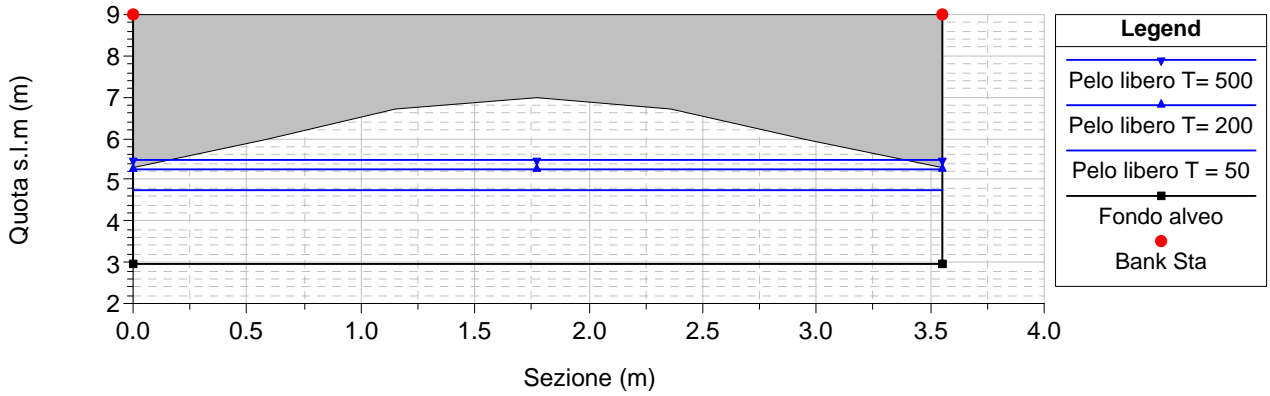
RS = 4.5 BR



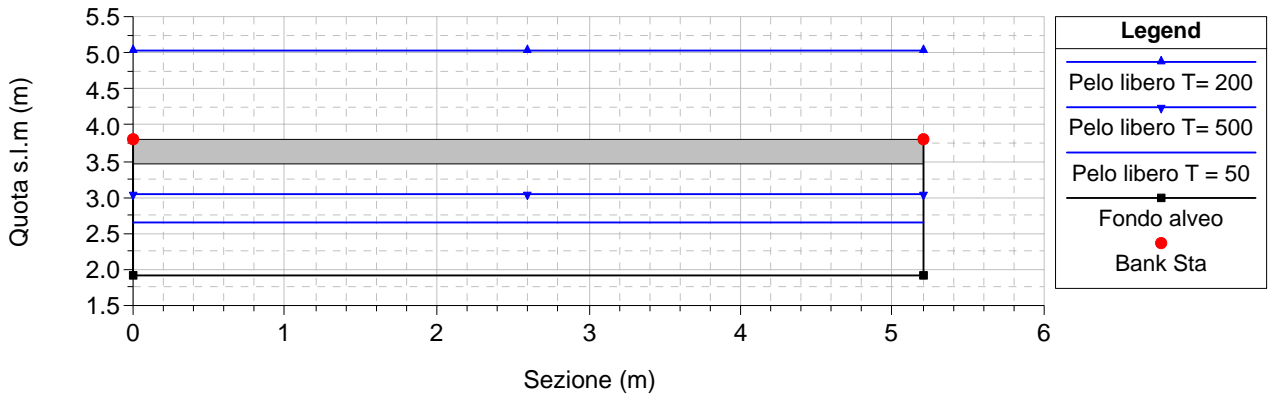
RS = 4



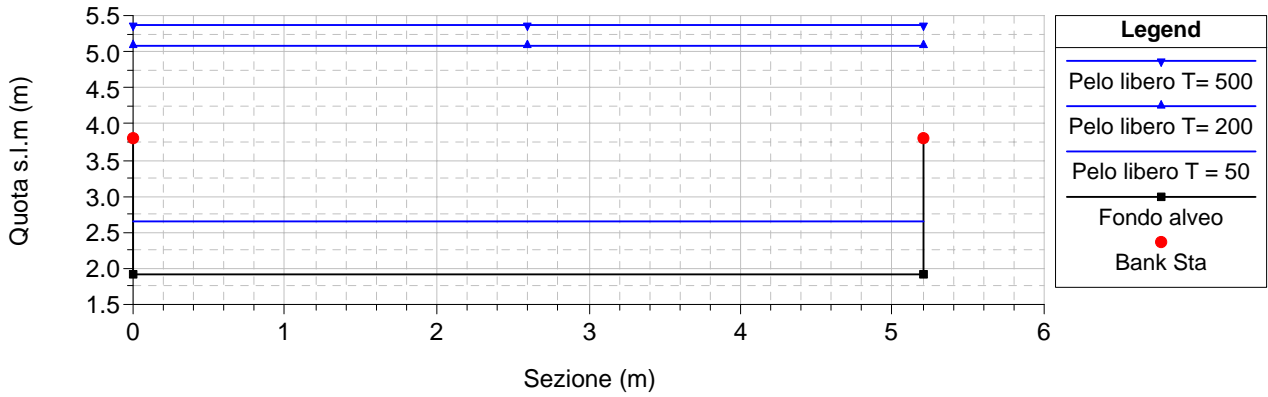
RS = 3.5 BR



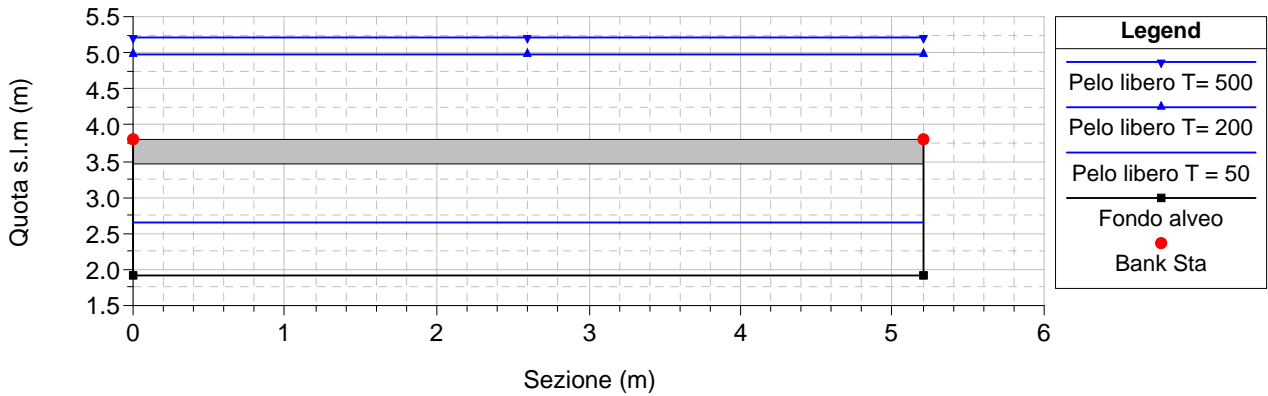
RS = 3.5 BR



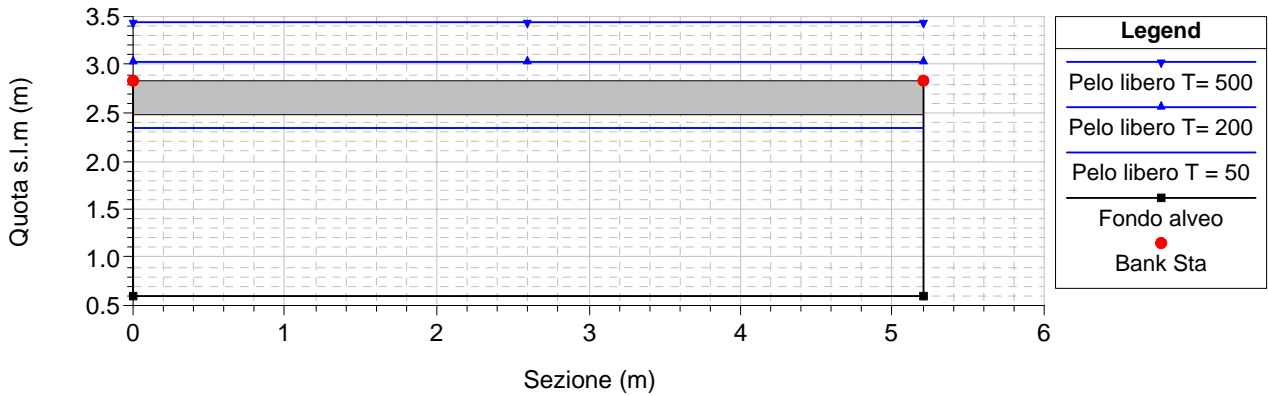
RS = 3



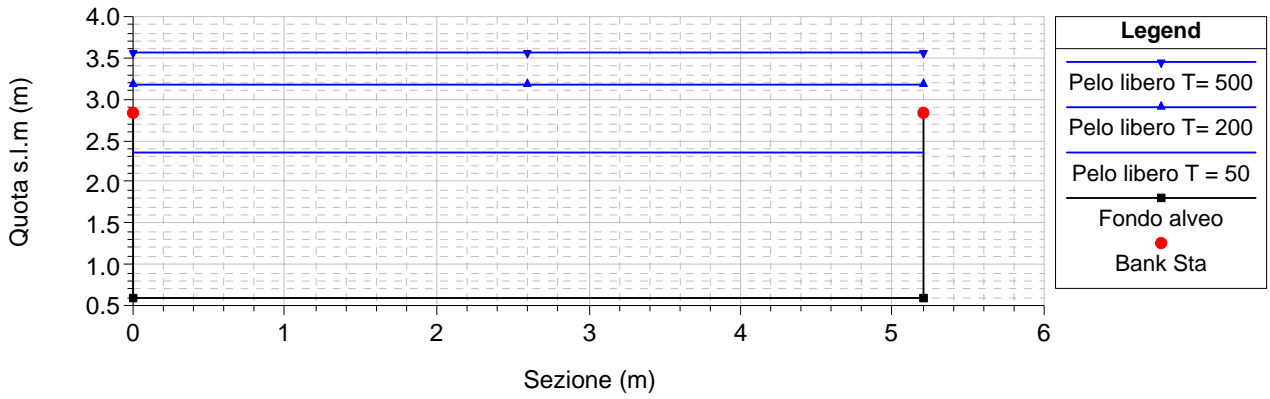
RS = 2.5 BR



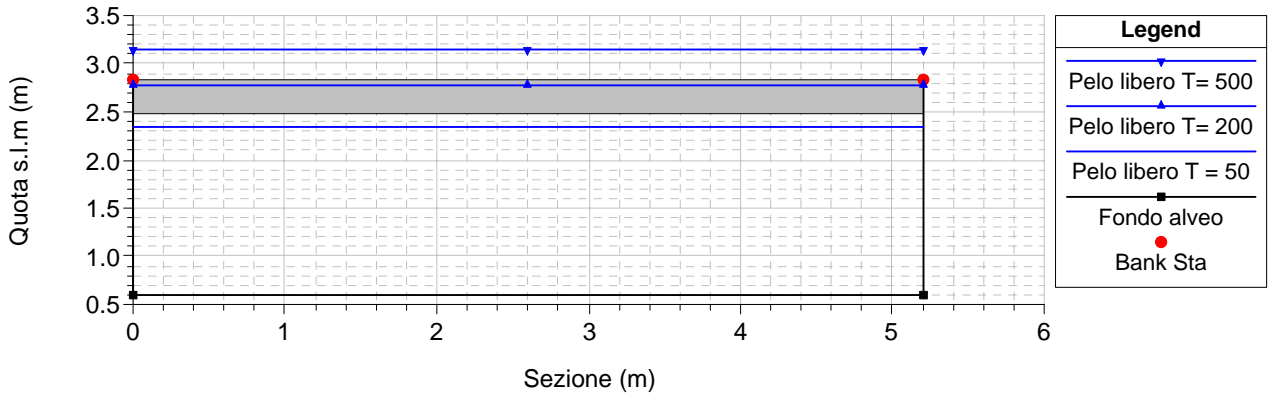
RS = 2.5 BR



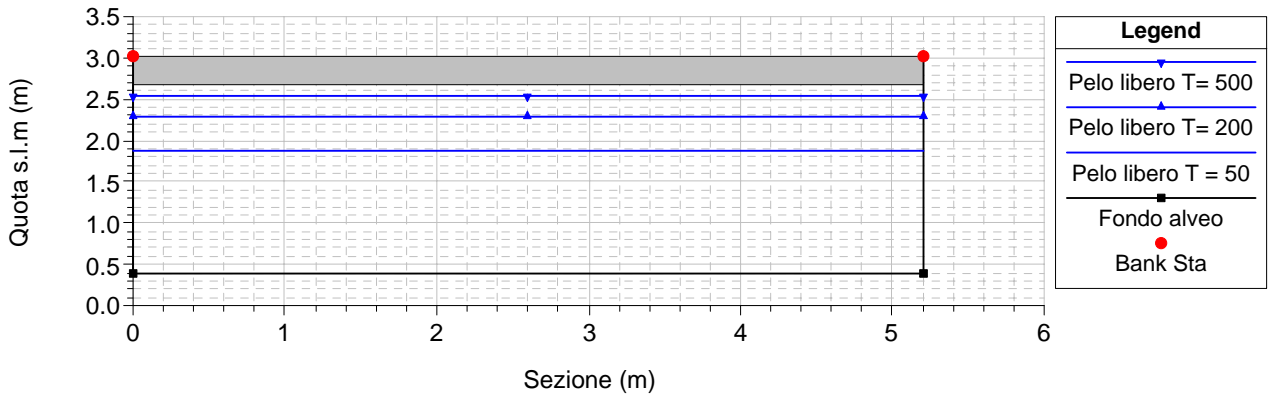
RS = 2



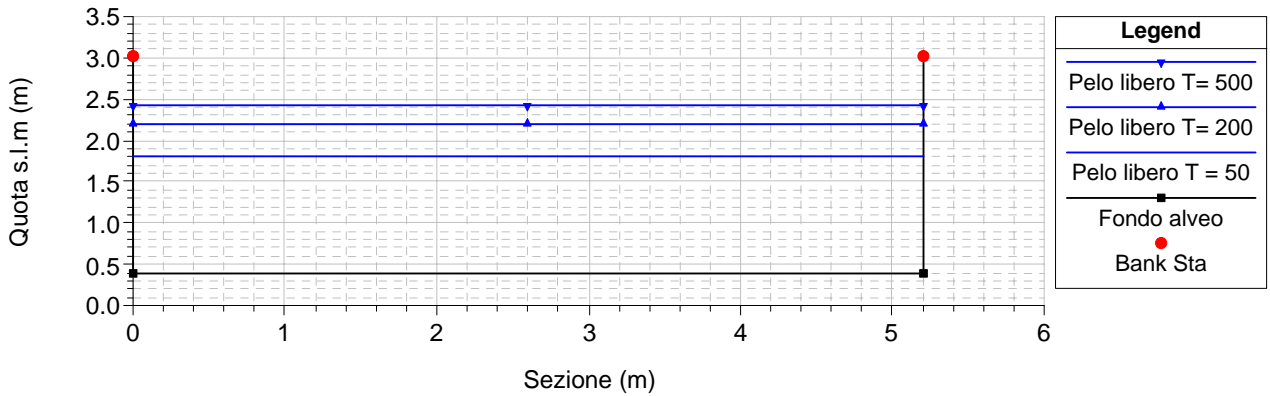
RS = 1.5 BR



RS = 1.5 BR



RS = 1



**MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO
PERMANENTE:
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE
PER LE PORTATE T=50, 200, 500 ANNI**

RIO RIANELLO

Rio Rianello T=50 anni

| Sezioni | Portata totale (m3/s) | Fondo alveo (m) | Argine sinistro (m) | Argine destro (m) | Pelo libero (m) | Profondità critica (m) | Energia (m2) | Velocità (m/s) | Area bagnata (m2) | N° Froude |
|---------|-----------------------------|-----------------------|---------------------------|-------------------------|-----------------------|------------------------------|-----------------|-------------------|-------------------------|--------------|
| 15 | 27 | 16.57 | 18.20 | 18.20 | 18.89 | 0.01 | 3.67 | 7.36 | 5.38 | 1.00 |
| 14 | 27 | 15.52 | 16.47 | 17.05 | 18.49 | 0.06 | 6.31 | 4.28 | 5.02 | 2.18 |
| 13.5 | Bridge | | | | | | | | | |
| 13 | 27 | 9.95 | 10.92 | 11.60 | 13.88 | 0.12 | 7.62 | 3.54 | 6.12 | 3.20 |
| 12 | 27 | 9.35 | 10.32 | 10.78 | 11.92 | 0.05 | 5.61 | 4.82 | 6.80 | 2.13 |
| 11.5 | Bridge | | | | | | | | | |
| 11 | 27 | 9.35 | 10.45 | 10.78 | 11.59 | 0.03 | 4.73 | 5.71 | 6.88 | 1.66 |
| 10 | 27 | 7.56 | 10.44 | 8.74 | 10.53 | 0.00 | 1.39 | 19.38 | 6.79 | 0.26 |
| 9.5 | Inl Struct | | | | | | | | | |
| 9 | 27 | 6.62 | 8.84 | 8.04 | 9.05 | 0.00 | 2.02 | 13.35 | 6.75 | 0.46 |
| 8 | 27 | 5.47 | 8.27 | 8.14 | 8.92 | 0.01 | 3.56 | 7.58 | 4.60 | 0.89 |
| 7.5 | Bridge | | | | | | | | | |
| 7 | 27 | 4.29 | 6.60 | 6.12 | 6.79 | 0.00 | 2.08 | 14.37 | 10.41 | 0.46 |
| 6 | 27 | 3.73 | 5.66 | 5.56 | 6.48 | 0.02 | 4.02 | 6.71 | 3.51 | 0.93 |
| 5.5 | Bridge | | | | | | | | | |
| 5 | 27 | 3.50 | 5.40 | 5.31 | 6.22 | 0.02 | 4.01 | 6.74 | 3.55 | 0.93 |
| 4.5 | Bridge | | | | | | | | | |
| 4 | 27 | 2.95 | 4.84 | 4.75 | 5.67 | 0.02 | 4.02 | 6.72 | 3.55 | 0.93 |
| 3.5 | Bridge | | | | | | | | | |
| 3 | 27 | 1.92 | 2.65 | 3.32 | 5.20 | 0.09 | 7.07 | 3.82 | 5.20 | 2.63 |
| 2.5 | Bridge | | | | | | | | | |
| 2 | 27 | 0.59 | 2.35 | 1.99 | 2.79 | 0.01 | 2.95 | 9.16 | 5.20 | 0.71 |
| 1.5 | Bridge | | | | | | | | | |
| 1 | 27 | 0.40 | 1.80 | 1.80 | 2.50 | 0.01 | 3.72 | 7.26 | 5.20 | 1.00 |

Rio Rianello T=200 anni

| Sezioni | Portata totale (m3/s) | Fondo alveo (m) | Argine sinistro (m) | Argine destro (m) | Pelo libero (m) | Profondità critica (m) | Energia (m2) | Velocità (m/s) | Area bagnata (m2) | N° Froude |
|---------|-----------------------------|-----------------------|---------------------------|-------------------------|-----------------------|------------------------------|-----------------|-------------------|-------------------------|--------------|
| 15 | 39 | 16.57 | 18.58 | 18.58 | 19.45 | 0.01 | 4.13 | 9.45 | 5.51 | 1.01 |
| 14 | 39 | 15.52 | 16.77 | 17.45 | 19.07 | 0.05 | 6.72 | 5.80 | 5.05 | 2.00 |
| 13.5 | Bridge | | | | | | | | | |
| 13 | 39 | 9.95 | 11.12 | 11.94 | 14.52 | 0.10 | 8.17 | 4.77 | 6.16 | 2.96 |
| 12 | 39 | 9.35 | 10.49 | 11.11 | 12.66 | 0.06 | 6.53 | 5.97 | 6.91 | 2.24 |
| 11.5 | Bridge | | | | | | | | | |
| 11 | 39 | 9.35 | 10.60 | 11.11 | 12.29 | 0.04 | 5.76 | 6.77 | 6.98 | 1.87 |
| 10 | 39 | 7.56 | 10.91 | 9.07 | 11.06 | 0.00 | 1.72 | 22.88 | 9.79 | 0.30 |
| 9.5 | Inl Struct | | | | | | | | | |
| 9 | 39 | 6.62 | 9.45 | 8.37 | 9.70 | 0.00 | 2.24 | 17.45 | 6.77 | 0.44 |
| 8 | 39 | 5.47 | 8.72 | 8.57 | 9.55 | 0.01 | 4.04 | 9.66 | 4.63 | 0.89 |
| 7.5 | Bridge | | | | | | | | | |
| 7 | 39 | 4.29 | 5.44 | 6.41 | 9.03 | 0.09 | 8.39 | 4.65 | 5.03 | 2.78 |
| 6 | 39 | 3.73 | 6.19 | 6.06 | 7.24 | 0.02 | 4.55 | 8.58 | 3.52 | 0.93 |
| 5.5 | Bridge | | | | | | | | | |
| 5 | 39 | 3.50 | 5.92 | 5.80 | 6.97 | 0.02 | 4.54 | 8.59 | 3.55 | 0.93 |
| 4.5 | Bridge | | | | | | | | | |
| 4 | 39 | 2.95 | 5.37 | 5.25 | 6.42 | 0.02 | 4.54 | 8.60 | 3.55 | 0.93 |
| 3.5 | Bridge | | | | | | | | | |
| 3 | 39 | 1.92 | 5.09 | 3.71 | 5.37 | 0.00 | 2.37 | 16.48 | 5.20 | 0.42 |
| 2.5 | Bridge | | | | | | | | | |
| 2 | 39 | 0.59 | 3.19 | 2.38 | 3.61 | 0.00 | 2.89 | 13.51 | 5.20 | 0.57 |
| 1.5 | Bridge | | | | | | | | | |
| 1 | 39 | 0.40 | 2.19 | 2.19 | 3.08 | 0.01 | 4.19 | 9.30 | 5.20 | 1.00 |

Rio Rianello T=500 anni

| Sezioni | Portata totale (m3/s) | Fondo alveo (m) | Argine sinistro (m) | Argine destro (m) | Pelo libero (m) | Profondità critica (m) | Energia (m2) | Velocità (m/s) | Area bagnata (m2) | N° Froude |
|---------|-----------------------------|-----------------------|---------------------------|-------------------------|-----------------------|------------------------------|-----------------|-------------------|-------------------------|--------------|
| 15 | 47 | 16.57 | 18.82 | 18.82 | 19.79 | 0.01 | 4.37 | 10.75 | 5.59 | 1.01 |
| 14 | 47 | 15.52 | 16.96 | 17.68 | 19.42 | 0.05 | 6.95 | 6.77 | 5.07 | 1.92 |
| 13.5 | Bridge | | | | | | | | | |
| 13 | 47 | 9.95 | 11.25 | 12.16 | 14.89 | 0.09 | 8.45 | 5.56 | 6.19 | 2.85 |
| 12 | 47 | 9.35 | 10.59 | 11.31 | 13.10 | 0.06 | 7.02 | 6.70 | 6.97 | 2.28 |
| 11.5 | Bridge | | | | | | | | | |
| 11 | 47 | 9.35 | 10.71 | 11.31 | 12.72 | 0.04 | 6.28 | 7.48 | 7.04 | 1.95 |
| 10 | 47 | 7.56 | 11.16 | 9.27 | 11.35 | 0.00 | 1.91 | 25.38 | 9.79 | 0.32 |
| 9.5 | Inl Struct | | | | | | | | | |
| 9 | 47 | 6.62 | 9.85 | 8.57 | 10.13 | 0.00 | 2.33 | 20.17 | 6.78 | 0.43 |
| 8 | 47 | 5.47 | 9.64 | 9.18 | 10.00 | 0.00 | 2.80 | 18.46 | 11.43 | 0.52 |
| 7.5 | Bridge | | | | | | | | | |
| 7 | 47 | 4.29 | 7.89 | 6.56 | 8.02 | 0.00 | 1.70 | 31.61 | 15.12 | 0.30 |
| 6 | 47 | 3.73 | 6.70 | 6.38 | 7.74 | 0.02 | 4.53 | 10.38 | 3.58 | 0.85 |
| 5.5 | Bridge | | | | | | | | | |
| 5 | 47 | 3.50 | 6.54 | 6.11 | 7.51 | 0.01 | 4.35 | 10.80 | 3.55 | 0.80 |
| 4.5 | Bridge | | | | | | | | | |
| 4 | 47 | 2.95 | 5.88 | 5.56 | 6.92 | 0.02 | 4.52 | 10.41 | 3.55 | 0.84 |
| 3.5 | Bridge | | | | | | | | | |
| 3 | 47 | 1.92 | 5.36 | 3.95 | 5.71 | 0.00 | 2.63 | 17.89 | 5.20 | 0.45 |
| 2.5 | Bridge | | | | | | | | | |
| 2 | 47 | 0.59 | 3.57 | 2.61 | 4.04 | 0.00 | 3.03 | 15.51 | 5.20 | 0.56 |
| 1.5 | Bridge | | | | | | | | | |
| 1 | 47 | 0.40 | 2.42 | 2.42 | 3.44 | 0.01 | 4.47 | 10.51 | 5.20 | 1.00 |