



**ODA 1**  
 TIPOLOGÍA: TUBO H.A.  
 DIMENSIONES: Ø 800 mm  
 LONGITUD (m): 7,30 m  
 PENDIENTE (%): 2,49  
 ESVAIAJE: 100° 00' 00''

**ODT 1**  
 TIPOLOGÍA: MARCO H.A.  
 DIMENSIONES: 2,00x1,00 (bxh)  
 LONGITUD (m): 12,00 m  
 PENDIENTE (%): 3,87  
 ESVAIAJE: 82° 80' 00''

**CUNETA PIE DE TERRAPLÉN**

**CRUCE DE CUNETA BAJO ARCADA DE LA ACEQUIA ACTUAL**

**CUNETA REVESTIDA DE HORMIGÓN**

**CUNETA REVESTIDA DE HORMIGÓN**

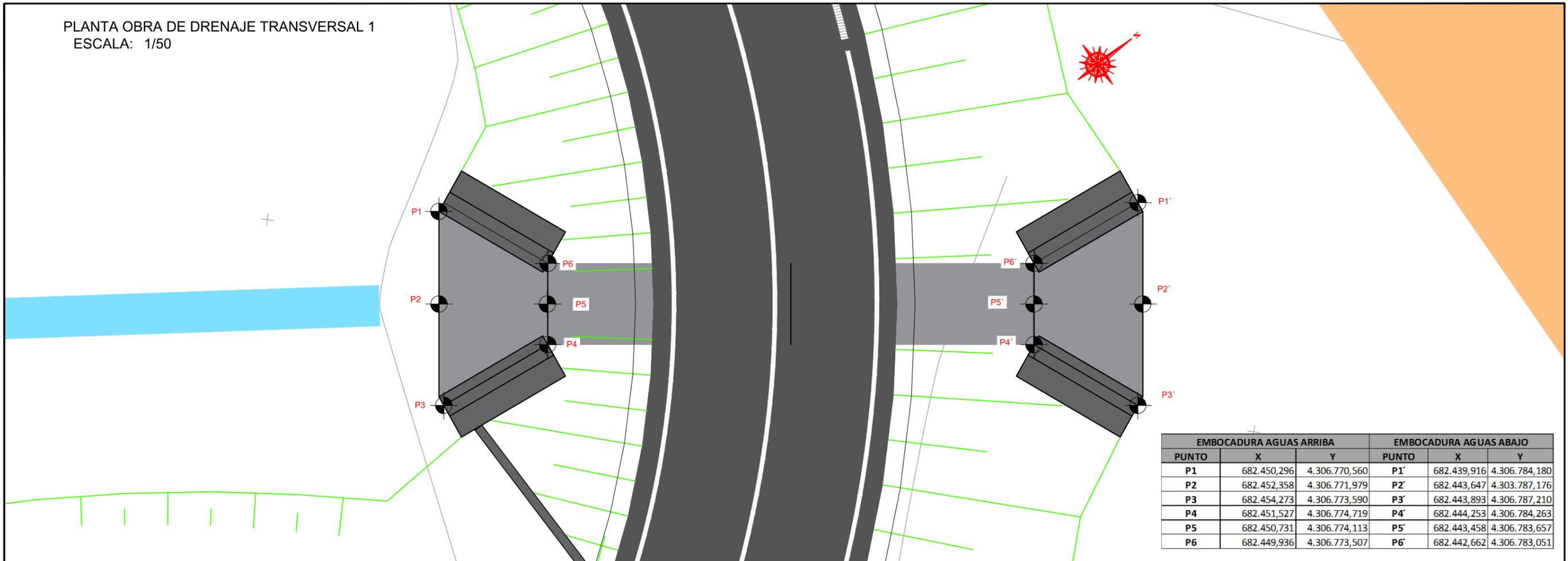
**ODT ACTUAL MARCO 1,00x1,00**

X=682540  
 Y=4306780

X=682340  
 Y=4306680

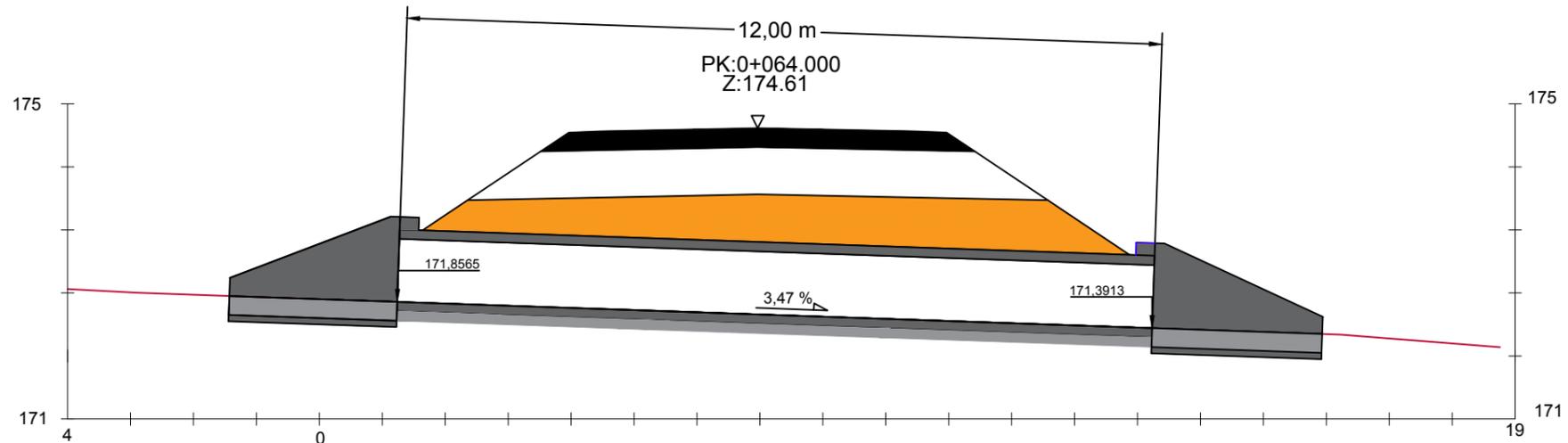
| LEYENDA |                                     |
|---------|-------------------------------------|
|         | RED DRENAJE GLORIETA                |
|         | CURVAS DE NIVEL GLORIETA PROYECTADA |

PLANTA OBRA DE DRENAJE TRANSVERSAL 1  
ESCALA: 1/50

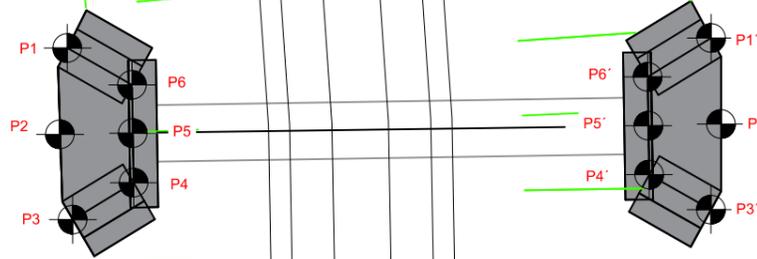


| EMBOCADURA AGUAS ARRIBA |             |               | EMBOCADURA AGUAS ABAJO |             |               |
|-------------------------|-------------|---------------|------------------------|-------------|---------------|
| PUNTO                   | X           | Y             | PUNTO                  | X           | Y             |
| P1                      | 682.450,296 | 4.306.770,560 | P1'                    | 682.439,916 | 4.306.784,180 |
| P2                      | 682.452,358 | 4.306.771,979 | P2'                    | 682.443,647 | 4.303.787,176 |
| P3                      | 682.454,273 | 4.306.773,590 | P3'                    | 682.443,893 | 4.306.787,210 |
| P4                      | 682.451,527 | 4.306.774,719 | P4'                    | 682.444,253 | 4.306.784,263 |
| P5                      | 682.450,731 | 4.306.774,113 | P5'                    | 682.443,458 | 4.306.783,657 |
| P6                      | 682.449,936 | 4.306.773,507 | P6'                    | 682.442,662 | 4.306.783,051 |

SECCIÓN OBRA DE DRENAJE TRANSVERSAL 1  
ESCALA: 1/50

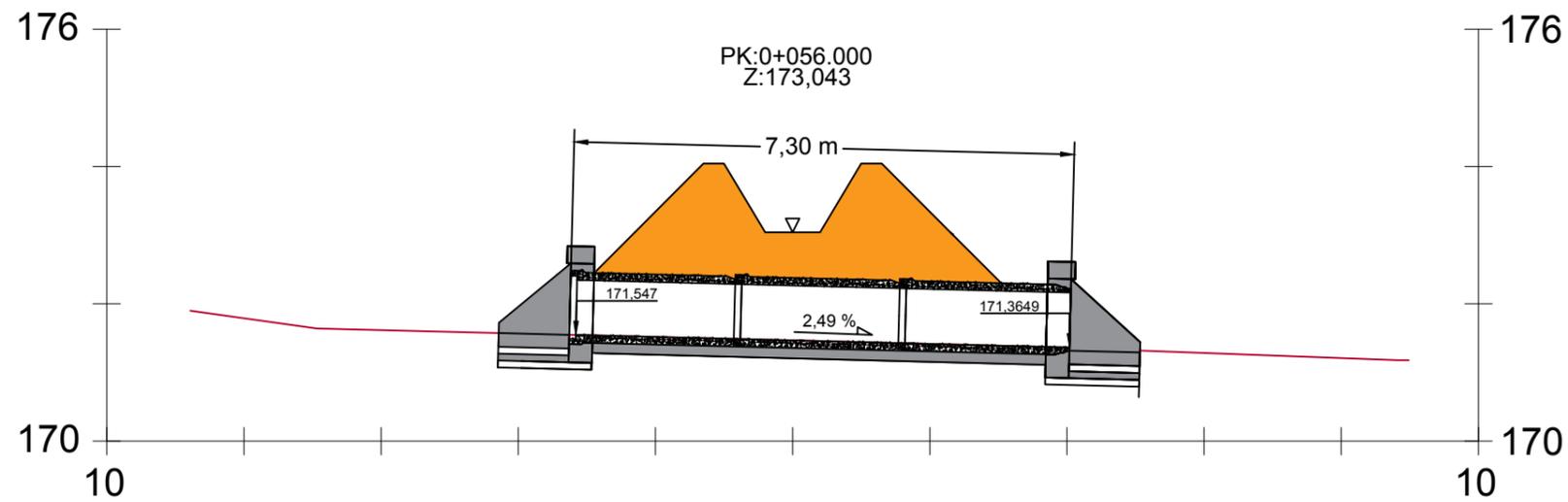


PLANTA OBRA DE DRENAJE AUXILIAR 1  
ESCALA: 1/50

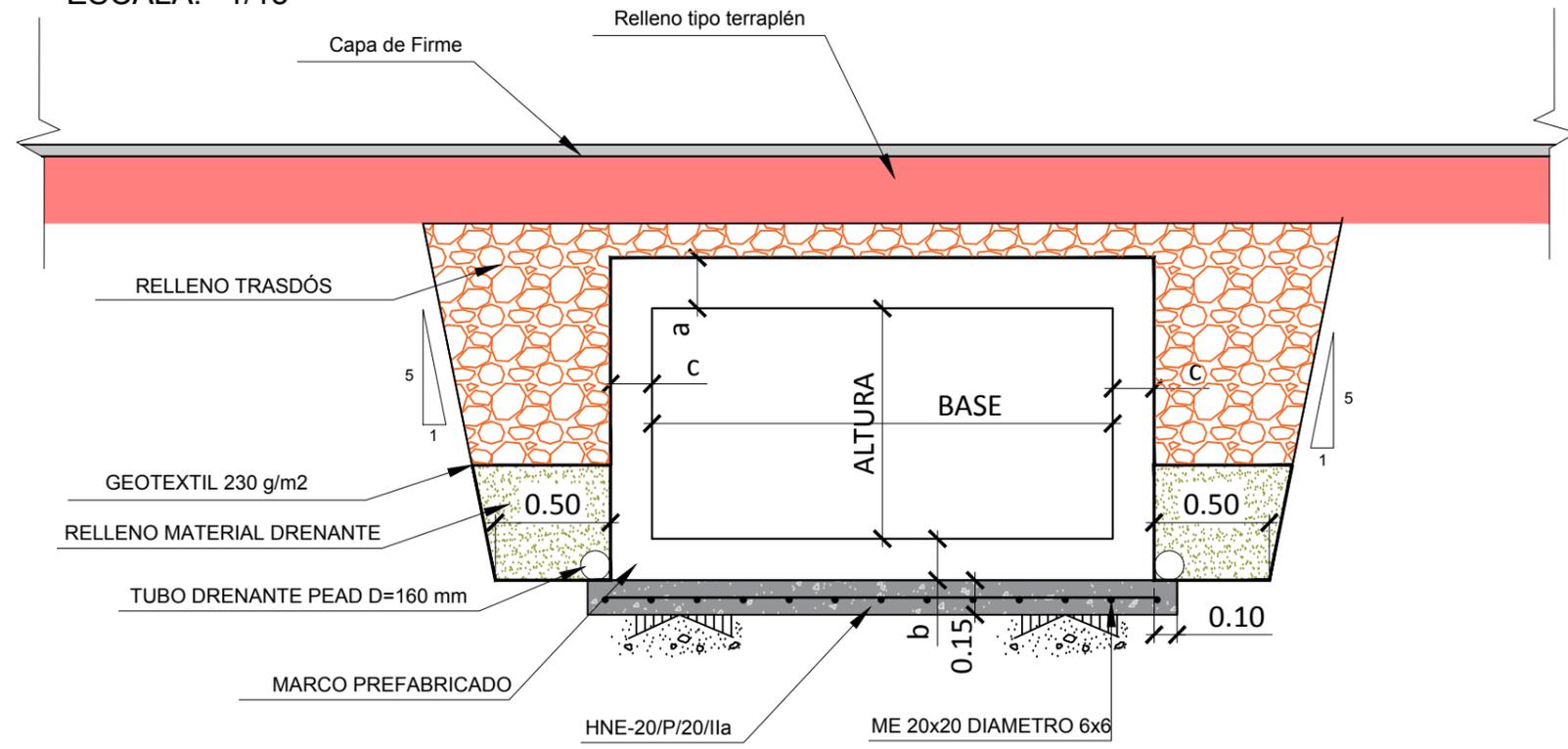


| EMBOCADURA AGUAS ARRIBA |             |               | EMBOCADURA AGUAS ABAJO |             |               |
|-------------------------|-------------|---------------|------------------------|-------------|---------------|
| PUNTO                   | X           | Y             | PUNTO                  | X           | Y             |
| P1                      | 682.415,078 | 4.306.772,564 | P1'                    | 682.414,485 | 4.306.781,657 |
| P2                      | 682.416,288 | 4.306.772,663 | P2'                    | 682.415,698 | 4.306.781,172 |
| P3                      | 682.417,499 | 4.306.772,762 | P3'                    | 682.416,911 | 4.306.781,775 |
| P4                      | 682.416,933 | 4.306.773,593 | P4'                    | 682.416,458 | 4.306.780,877 |
| P5                      | 682.416,234 | 4.306.773,547 | P5'                    | 682.415,759 | 4.306.780,832 |
| P6                      | 682.415,552 | 4.306.773,503 | P6'                    | 682.415,077 | 4.306.780,787 |

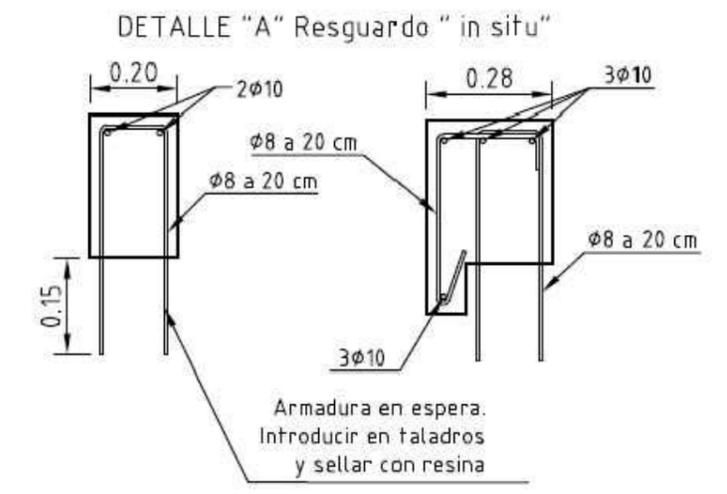
SECCIÓN OBRA DE DRENAJE AUXILIAR 1  
ESCALA: 1/50



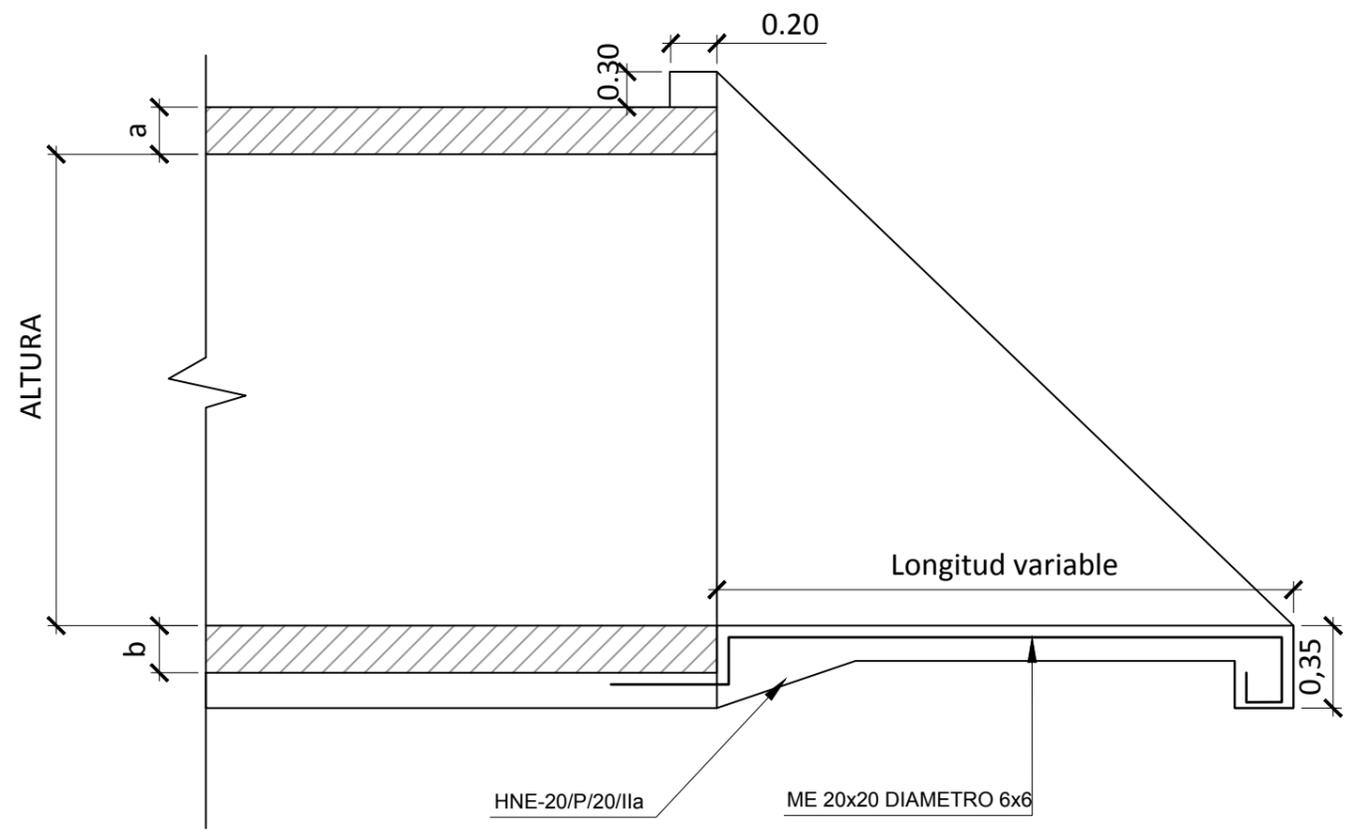
SECCIÓN TIPO MARCOS HORMIGÓN ARMADO  
ESCALA: 1/15



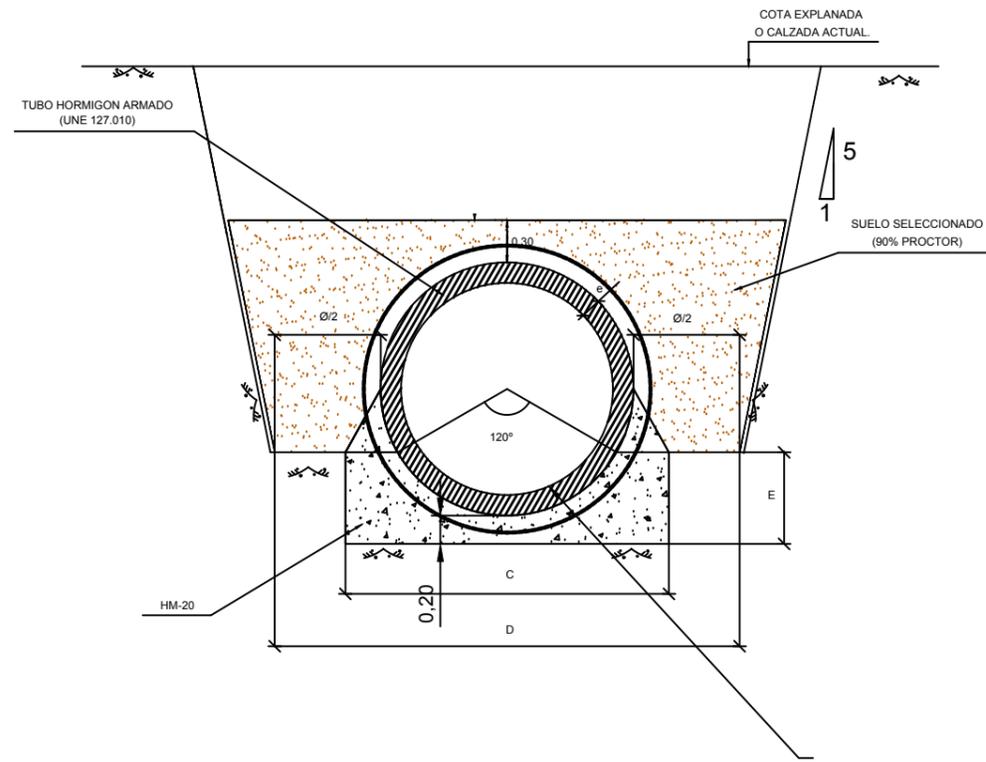
DETALLE ARMADO IMPOSTA  
ESCALA: S/E



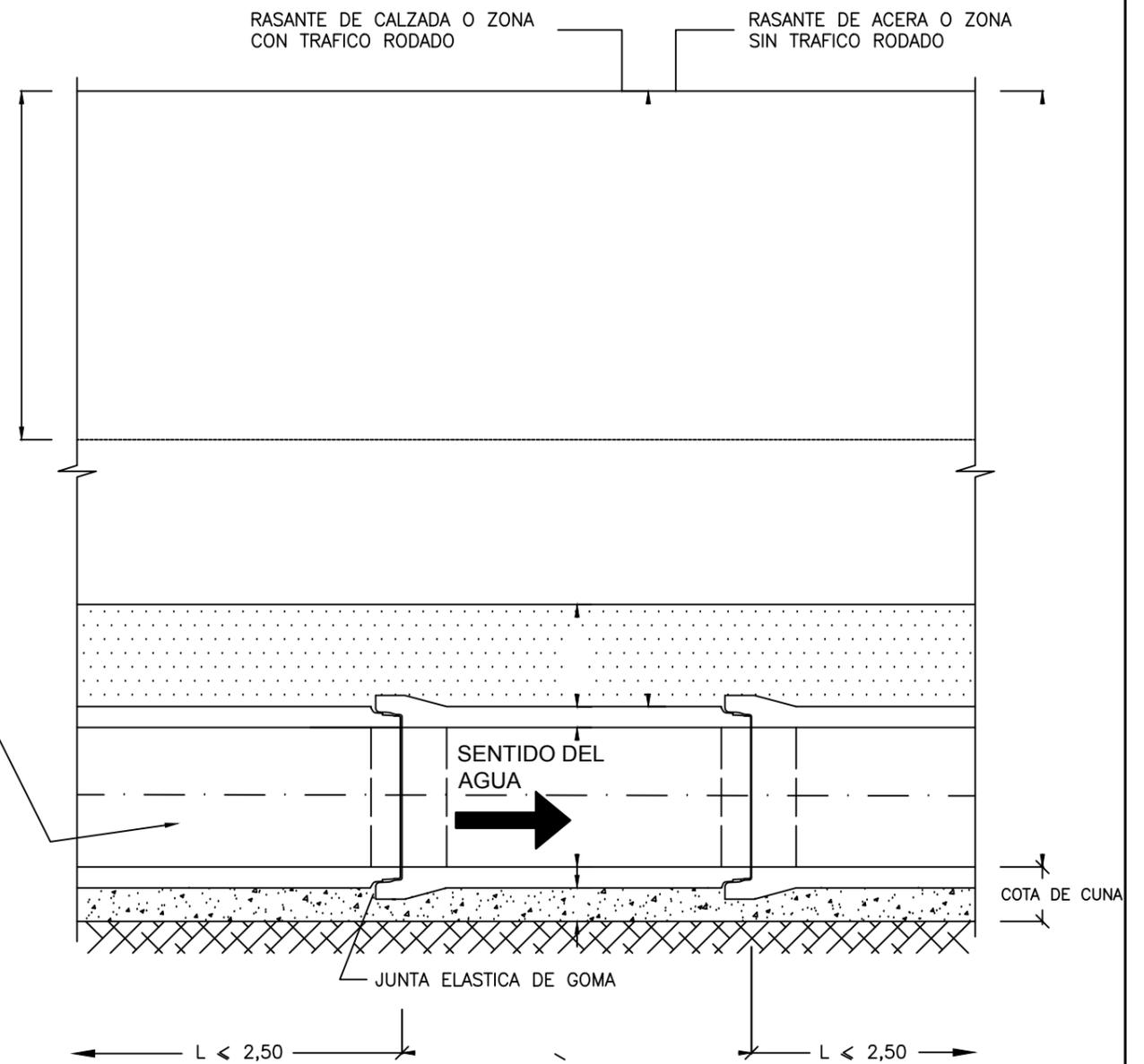
SECCIÓN PERFIL



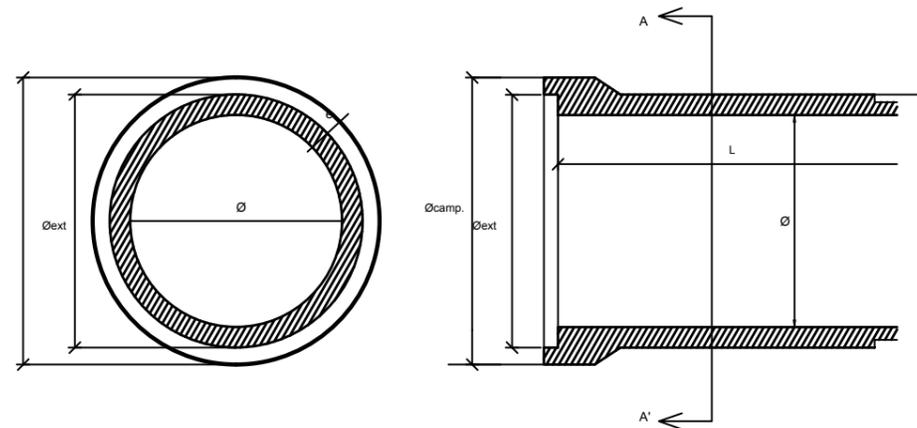
SECCION TRANSVERSAL OBRA DE DRENAJE TIPO CAÑO  
ESCALA 1/25



SECCION LONGITUDINAL OBRA DE DRENAJE TIPO CAÑO  
ESCALA: S/E



TUBERIA PREFABRICADA DE HORMIGON CON ENCHUFE DE CAMPANA PARA JUNTA DE GOMA



SECCION A-A'

ALZADO LATERAL

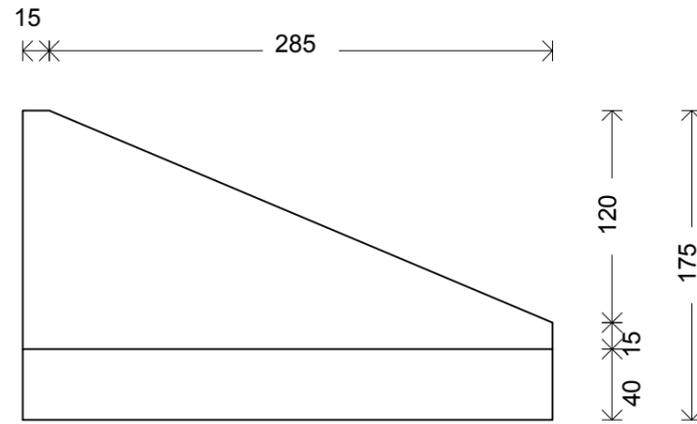
| DIMENSIONES TUBOS H.A. |            |           |            |              |      |       |       |       |
|------------------------|------------|-----------|------------|--------------|------|-------|-------|-------|
| DIAMETRO (mm)          | Øint. (mm) | Øext.(mm) | Øcamp.(mm) | Espesor (mm) | L(m) | C (m) | D (m) | E (m) |
| 800                    | 800        | 1020      | 1070       | 110          | 2,40 | 1,20  | 2,14  | 0,45  |

**CARACTERISTICAS DE LOS MATERIALES según EHE-08**

| MATERIAL  | TIPO                  | CONTROL     | γ    |
|-----------|-----------------------|-------------|------|
| Hormigón  | HA-35 / S / 20 / IIa* | Estadístico | 1,5  |
| Acero     | B500SD/B500S          | Normal      | 1,15 |
| Ejecución |                       | Intenso     | 1,5  |

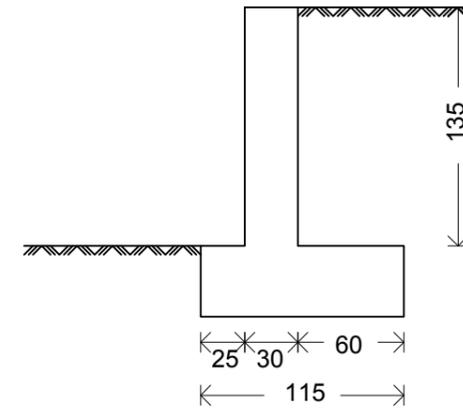
GEOMETRÍA DE ALETA PARA MARCOS PREFABRICADOS 2,00x1,00  
 ESCALA: 1/20

1

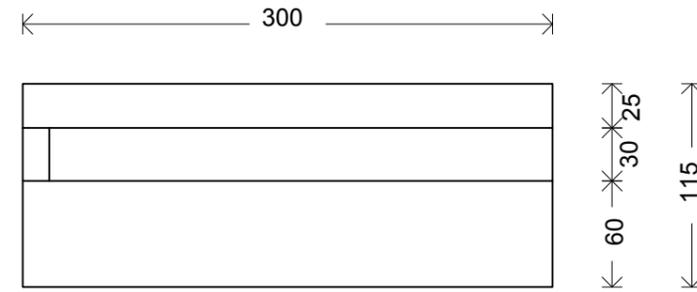


INTRADÓS

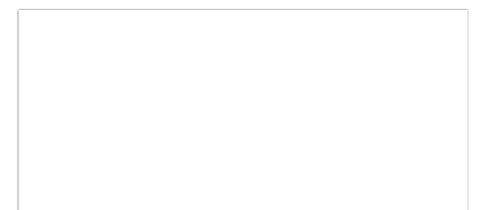
TRASDÓS



INTRADÓS

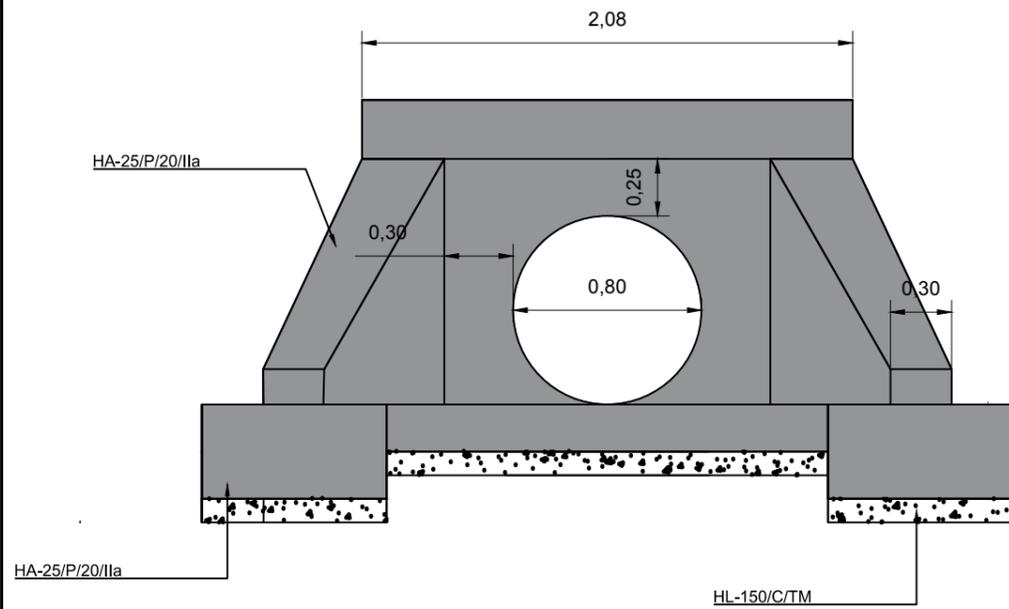


TRASDÓS

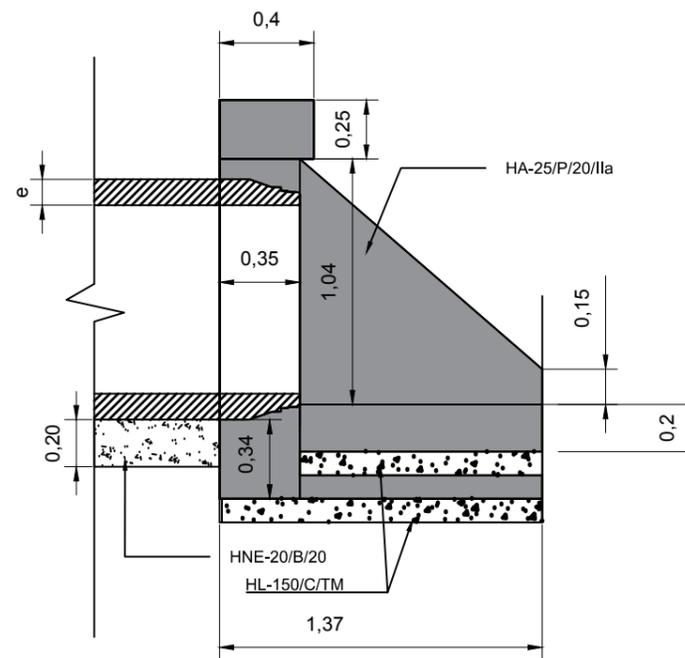


EMBOCADURA OBRA DE DRENAJE TRANSVERSAL TIPO CAÑO DE HORMIGÓN EN MASA DIÁMETRO 800 mm  
 ESCALA: 1/15

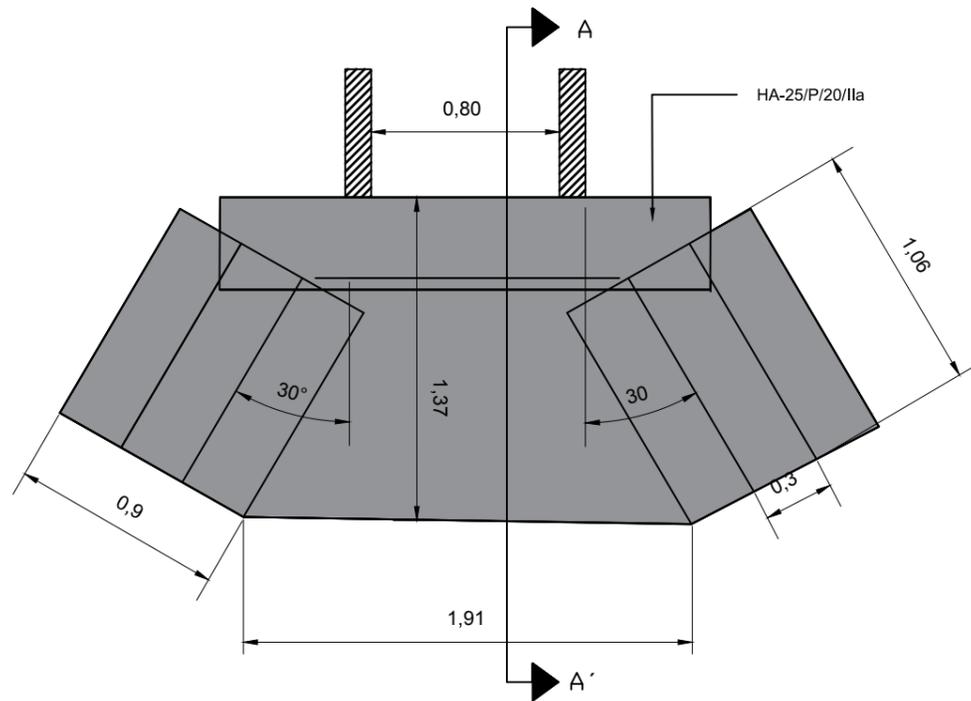
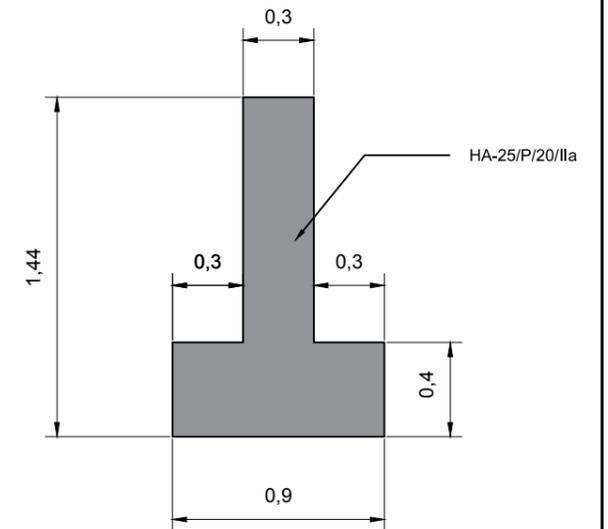
ALZADO



SECCIÓN A-A'



DETALLE ALETA  
 ESCALA 1/30



CUADRO DE CONTROL

| MATERIAL  | ELEMENTOS  | DESIGNACIÓN    | NIVEL DE CONTROL | COEFICIENTE SEGUR. E.L.U.          |
|-----------|------------|----------------|------------------|------------------------------------|
| HORMIGÓN  | NIVELACIÓN | HL-150/C/TM    | NO ESTRUCTURAL   |                                    |
|           | SOLERAS    | HNE-20/B/20    | ESTADÍSTICO      | $\gamma_c=1.50$                    |
|           | CIMENTOS   | HA-25/P/20/IIa | ESTADÍSTICO      | $\gamma_c=1.50$                    |
|           | ALZADOS    | HA-25/P/20/IIa | ESTADÍSTICO      | $\gamma_c=1.50$                    |
| ACERO     | PASIVO     | B-500-S        | NORMAL           | $\gamma_s=1.15$                    |
| EJECUCIÓN | CIMENTOS   | —              | INTENSO          | $\gamma_g=1.35$<br>$\gamma_q=1.50$ |
|           | ALZADOS    | —              | INTENSO          | $\gamma_g=1.35$<br>$\gamma_q=1.50$ |

DOSIFICACIÓN DE HORMIGONES

| ELEMENTOS | DESIGNACIÓN    | MÁX. RELACIÓN AGUA/ CEMENTO | CONTENIDO MÍNIMO DE CEMENTO |
|-----------|----------------|-----------------------------|-----------------------------|
| CIMENTOS  | HA-25/P/20/IIa | 0.60                        | 275Kg/m <sup>3</sup>        |
| ALZADOS   | HA-25/P/20/IIa | 0.60                        | 275Kg/m <sup>3</sup>        |