

# 480. DIMENSIONADO

Nº EXP. 

Z	Y	X	

APELLIDOS: \_\_\_\_\_

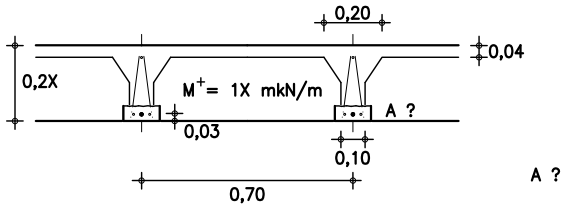
NOMBRE: \_\_\_\_\_

(firma)

HORMIGON HA25 Compresión segura distribución rectangular:  $12 \text{ N/mm}^2 = 1,2 \text{ kN/cm}^2$   
 HORMIGON PRECOMPRESIDO HA40 Compresión segura distribución rectangular:  $14 \text{ N/mm}^2 = 1,4 \text{ kN/cm}^2$   
 ACERO DE ARMAR B500 Tensión segura:  $310 \text{ N/mm}^2 = 31 \text{ kN/cm}^2$   
 ACERO DE PRETENSAR Tensión segura:  $600 \text{ N/mm}^2 = 60 \text{ kN/cm}^2$   
 ACERO LAMINADO A44/S275/Fe430 Tensión segura:  $180 \text{ N/mm}^2 = 18 \text{ kN/cm}^2$

Longitudes, en metros con DOS decimales. Resto SIN decimales

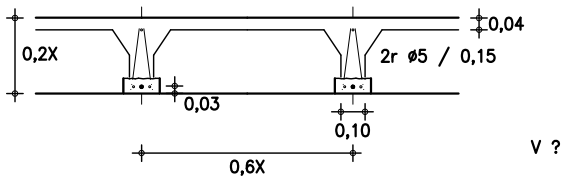
1



A ?

2Ø6 + nØ

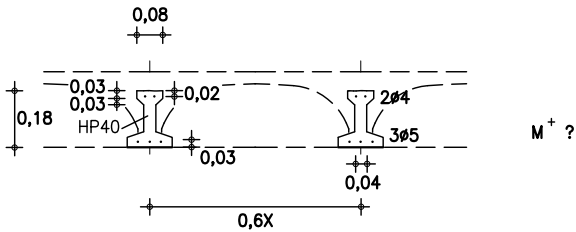
2



V ?

kN/m

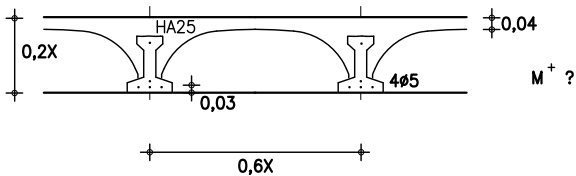
3



M+ ?

mkN/m

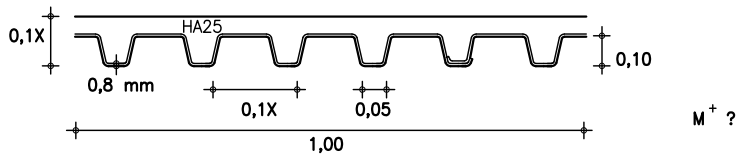
4



M+ ?

mkN/m

5

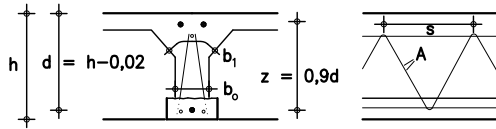


M+ ?

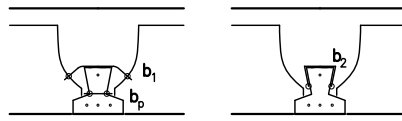
mkN/m

COMPROBACION A CORTANTE

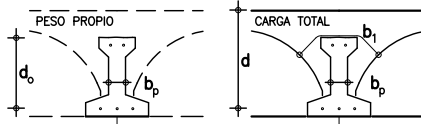
VIGUETAS ARMADAS HA25 con celosía B500



VIGUETAS HORMIGON HP40 con armadura pretensada



Forjado sanitario en dos fases



$V < 2b_1 df_v$   
 $V < b_0 df_v + 1.4Af_s z/s$   
 $f_s = 31 \text{ kN/cm}^2$   
 $f_v = 0.03 \text{ kN/cm}^2$

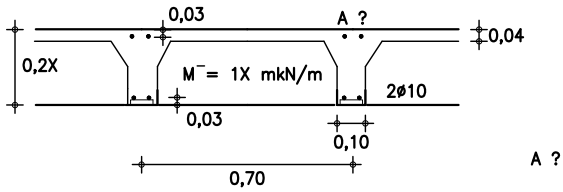
h	0,24	0,26	0,28	0,30	0,32
$2\phi 4/0,20$					
$b_0$	0,08	11	12	14	15
	0,10	13	14	16	17
$b_1$	0,10	13	14	16	17
	0,12	16	17	19	20
$b_p$	0,05	11	12	13	14
	0,06	13	14	16	17
$b_2$	0,14	11	12	13	14
	0,16	12	14	15	16

$V < 2b_1 df_v$   
 $V < 2b_p df_p$   
 $V < 1.2b_2 df_v$   
 $f_p = 0.05 \text{ kN/cm}^2$   
 $V_o < 2 b_p d_o f_p$   
 $V < 2 b_p df_p$   
 $V < 2b_1 df_v$

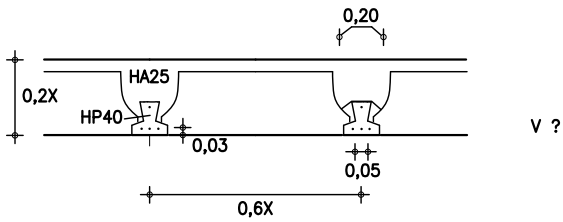
V (kN) por nervio

Longitudes, en metros con DOS decimales. Resto SIN decimales

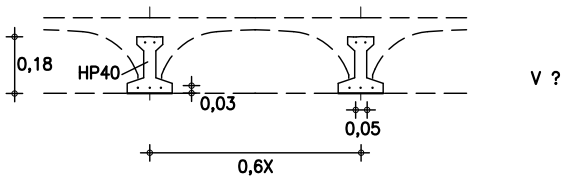
6


 n ø

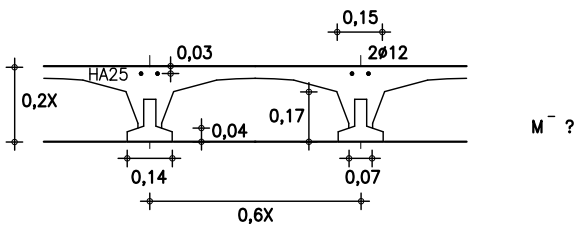
7


 kN/m

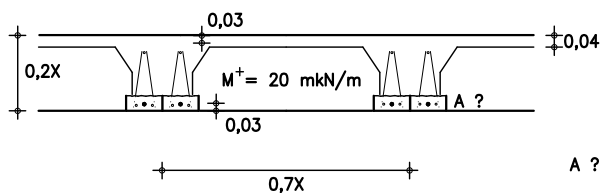
8


 kN/m

9


 mkN/m

10


 2 (2ø6 + n ø)