



FABIO PINARDI
Albo Ing.
di Brescia
n. 1308
PESENZANO

PRESTRESSED CONCRETE GIRDERS

L2= (cm)	850	B1= (cm)	480	H4=	250
H5= (cm)	40	H1= (cm)	70	F= (t)	800
H2= (cm)	182	H6= (cm)	20	H7= (cm)	15
H8= (cm)	45	B4= (cm)	80	L3 = (cm)	98
L4= (cm)	350	L5= (cm)	402	H3= (cm)	68

N.1 HEB SECTION= 170 (cmq)

TOTAL WEIGTH= 255000 (daN)

BENDING MOMENT OF stability = 108375000

BENDING MOMENT OF design = 206000000

SECURITY FACTOR= 1.900807382 > 1.5

COMPR. CONCRETE STRESS (DaN/cm²) = 41.66666667 < 90
IN SLAB H5XB1

F1= 1289.795918 t

F2= 489.7959184 t

FORCES AT BOTTOM OF PLATFORM

N= 255000 M= 72000000

MAX SOIL STRESS= 0.659602 (DaN/cm²) MIN SOIL STRESS= 0.590398 (DaN/cm²)

COMPRESSION CONCRETE STRESS = 107.4829932 (DaN/cm²)
NEAR HEB SLAB

COMPRESSION HEB STRESS = 1177.887155 (DaN/cm²)

SUPERIOR reinforcement as slab without soil contribute 111.87514 (cmq)

SUPERIOR reinforcement due to reaction f2 47.095761 (cmq)

total SUPERIOR reinforcement with soil contribute 53.289541 (cmq)

INFERIOR reinforcement due to reaction f2 141.28728 (cmq)

VERTICAL reinforcement due to reaction f1 79.76892 (cmq)

