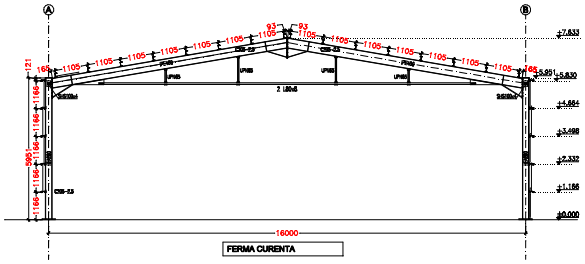
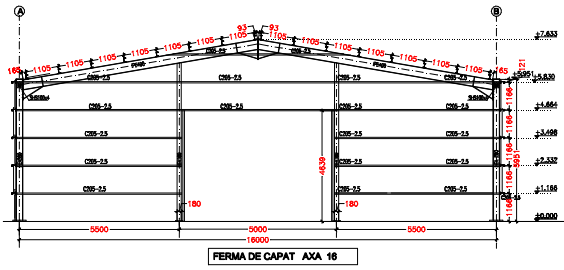
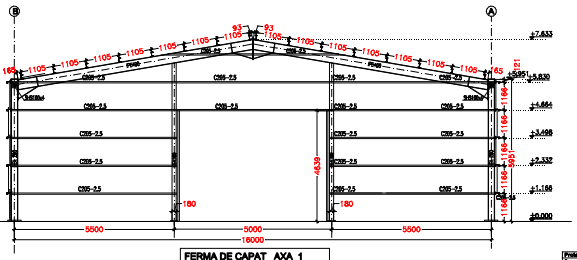


FERMA CURENTA



FERMA DE CAPAT AXA 16



FERMA DE CAPAT AXA 1

STRUCTURAL MEMBERS

TYPICAL COLUMNS :	HEA 320	S275 (EN-4)
TYPICAL RAFTER BEAMS :	IPE 450	S275 (EN-4)
TYPICAL RIGID BEAMS :	2 L80x8	S275 (EN-4)
DIAGONAL ROOF :	HEA 320	S275 (EN-4)
DIAGONAL BEAM :	IPE 450	S275 (EN-4)
EAVE BEAMS :	SHS 160x4	S275 (EN-4)
WALL BRACES :	SHS 160x4	S275 (EN-4)
ROOF BRACES :	CHS 114.3x3	S275 (EN-4)
PURLINS :	C 200-2.5	Fe360G
GRTS :	C 200-2.5	Fe360G

CONSIDERATIONS

1. MATERIALS

STRUCTURAL STEEL	Fy=275
CONCRETE	C30/35
ARMOURE STEEL	S500s
SAFETY FACTOR FOR CONCRETE	γ_c =1.50
SAFETY FACTOR FOR STEEL	γ_s =1.15

2. DEAD LOADS

CONCRETE SELF WEIGHT	25,00kN/m³
GROUND SELF WEIGHT	18,00kN/m³
ROOF CLADDING	0,15kN/m²

3. IMPOSED LOADS

SNOW LOAD:	0,80kN/m²
WIND LOAD:	0,60kN/m²
SERVICE LOAD:	0,30kN/m²
LIVE LOAD:	3,00kN/m²

4. LOAD SAFETY FACTORS

DEAD LOADS	γ_G =1.35
IMPOSED LOADS	γ_Q =1.50
COMPRESSION FACTOR	ξ_d =0.30

5. EARTHQUAKE DATA

SEISMIC RISK ZONE	II
SEISMIC GROUND ACCELERATION:	a_g=0.04g
IMPORTANCE CATEGORY	II
IMPORTANCE FACTOR	γ_I =1.00
SOIL CATEGORY	C
SEISMIC COMPORTMENT FACTOR	q=4.0
FOUNDATION FACTOR	γ_f=1.00
SPECTRAL AMPLIFICATION FACTOR	S=0.50
CHARACTERISTIC PERIODS	T_1=0.15, T_2=0.60
ACCELERATION SPECTRUM SEISMIC ORIGINATES	
0<T<T1	$Sa(T)=a_g*S*(1+(T/T1)*(B/q)-1)$
0<T<T2	$Sa(T)=a_g*S*B/q$
T>T2	$Sa(T)=a_g*S*B/q*(T2/T)^{2/3}$

6. SOIL DATA

Max. Allowed Soil Stress:	150kN/m²

Proiectant: Ing.Marcel Adrian
Desenat: Ing.Marcel Adrian
Verificat:
Contr.STAS:
Aprobat:
Masa: metal
CRISADYS DESIGN CONSTRUCT
Data: 03.2010

Client:

FERME CURENTE HALA

PROIECTE HALA PRELUCRARE PRESARA

PT-S-3