



CONSTRUCCIONES Y MONTAJES INDUSTRIALES

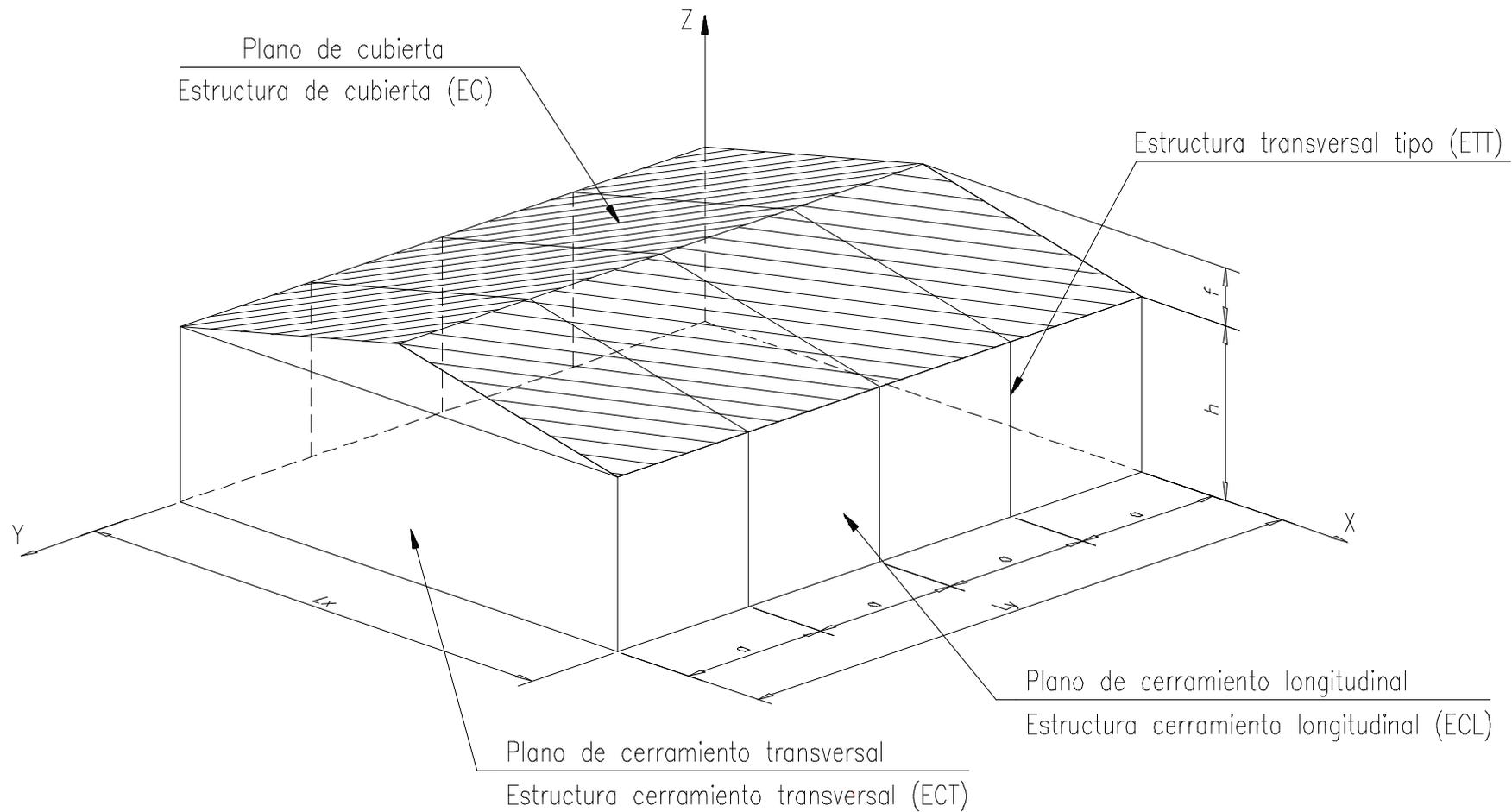
NAVES INDUSTRIALES

Ing Daniel BONILLA

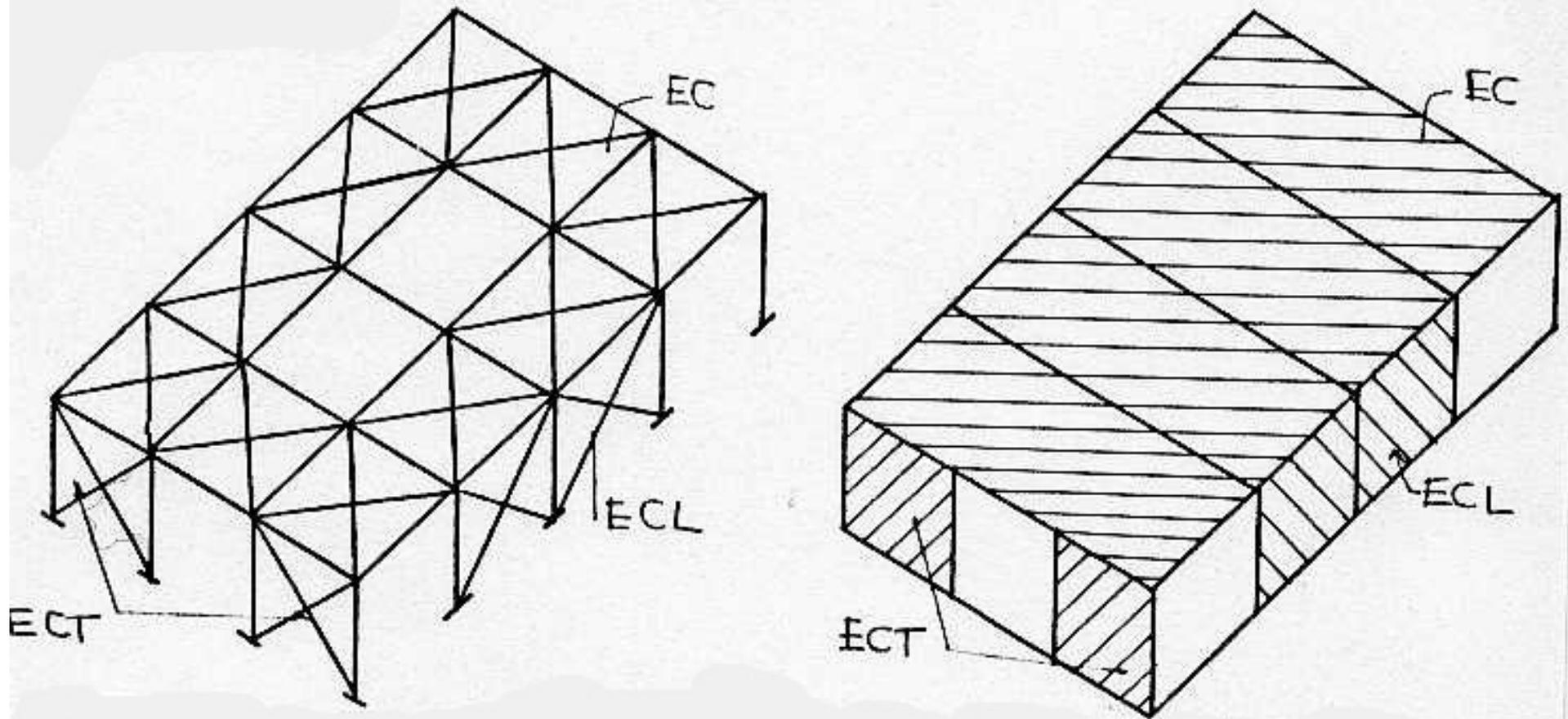
Condiciones de Proyecto

- 👉 **Funcionales**
- 👉 **Estéticas e imagen comercial**
- 👉 **Resistencia y rigidez**
- 👉 **Económicas: constructivas y de producción**
- 👉 **Tecnológicas**
- 👉 **Ambientales**

Componentes Estructurales

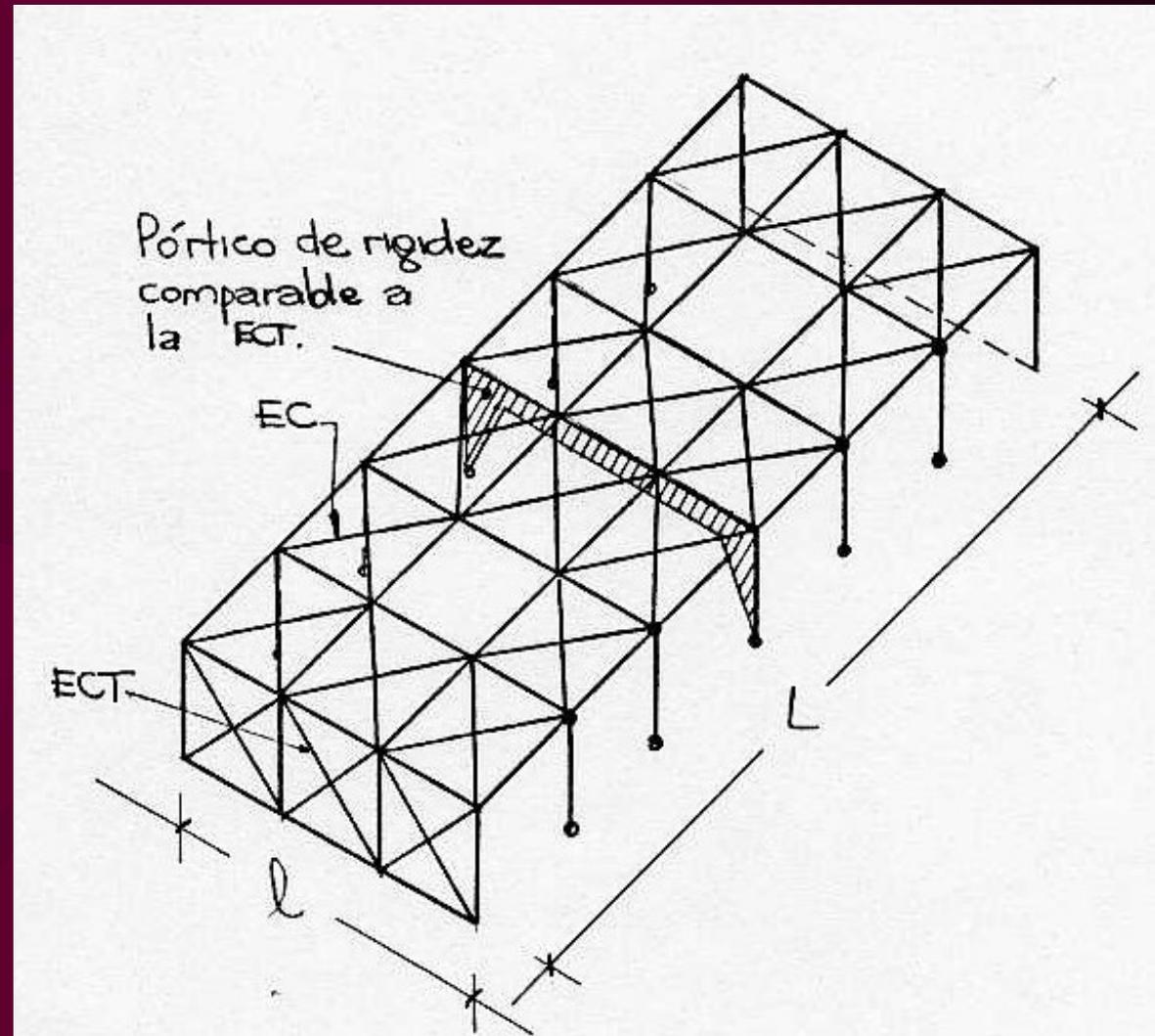
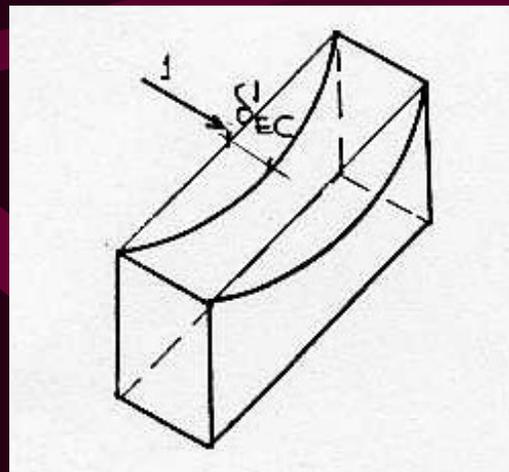
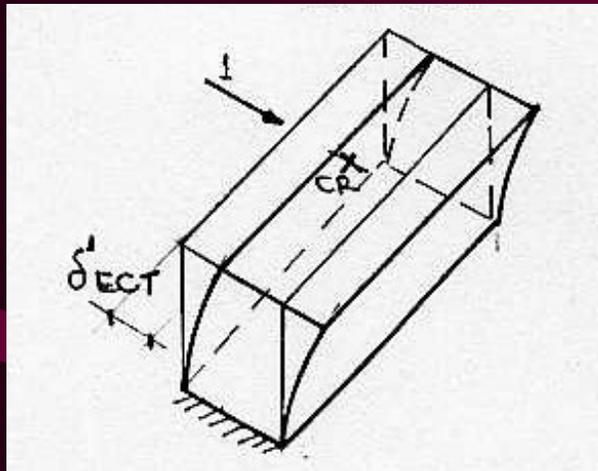


Estructura de Cubierta – Rigid. Total

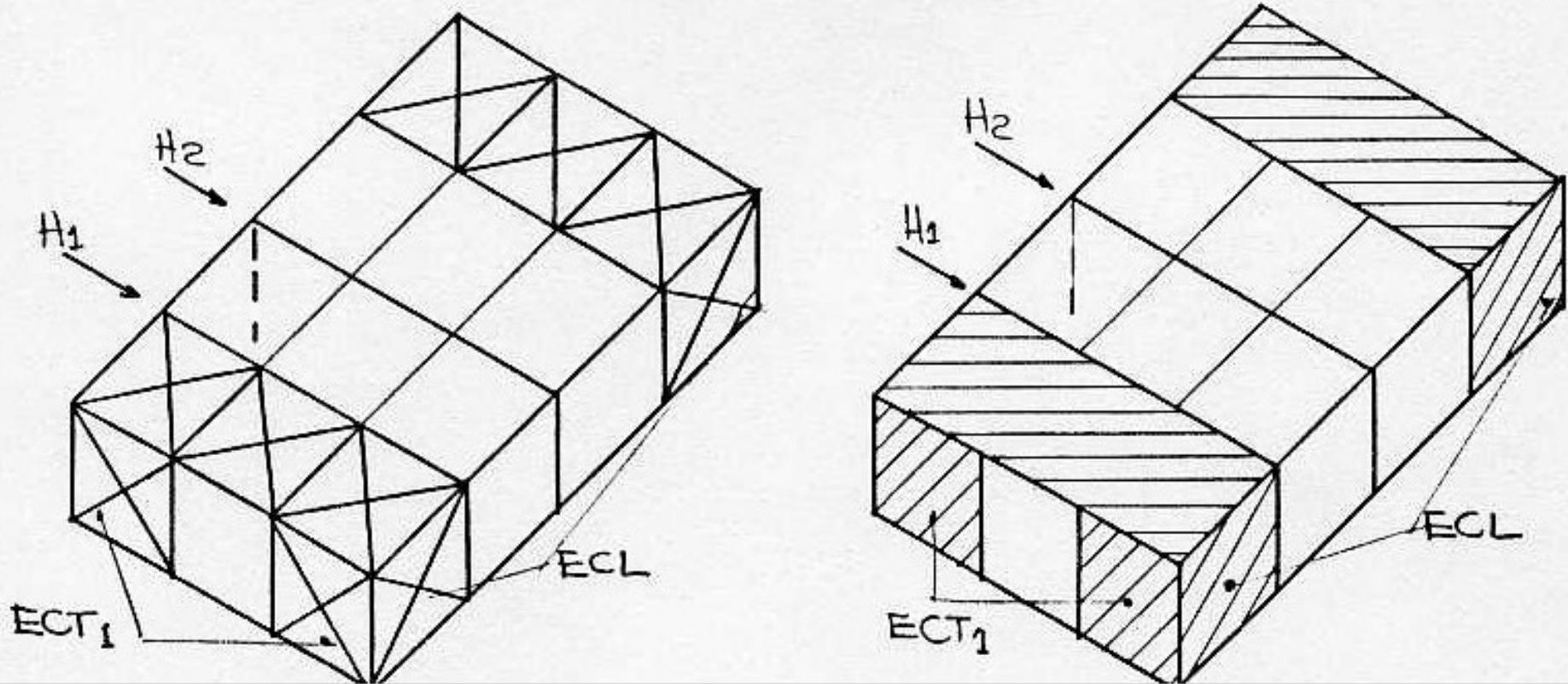


Naves Industriales

Estructura de Cubierta – Rigid. Total



Estructura de Cubierta – Rigid. Parcial



Estructura de Cubierta – Tipos

VIGAS DE CELOSÍA

fig.1

WARREN

cordón superior



cordón inferior

fig.2



nudo inf.

fig.3

WARREN

nudo sup.



montante

fig.5

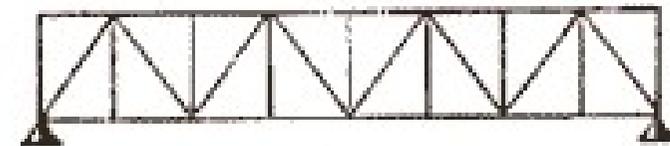
cordón superior recto



cordón inferior recto

PRATT

fig.4



Estructura de Cubierta – Tipos

fig.6

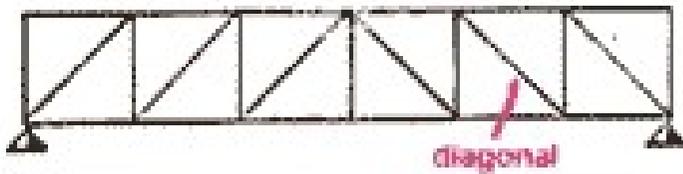


fig.7

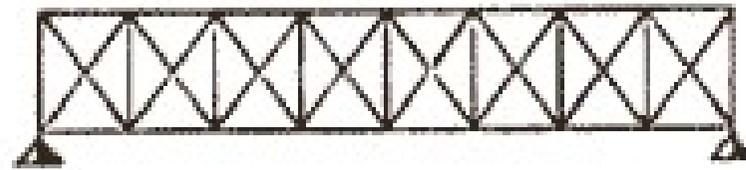


fig.14

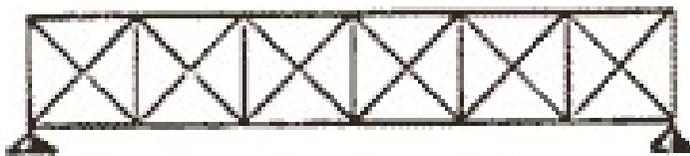


HOWE

fig.8



fig.10



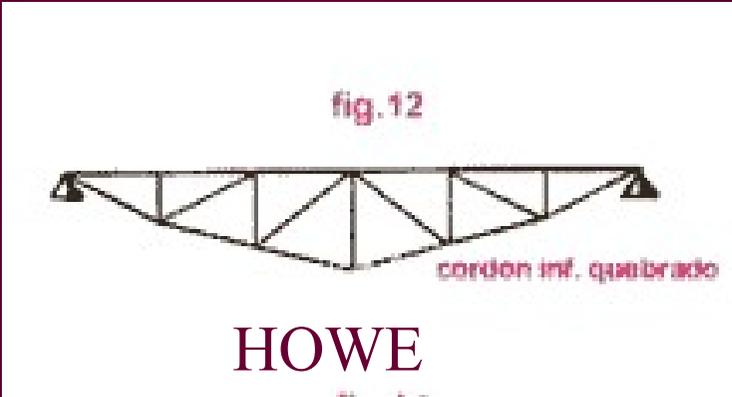
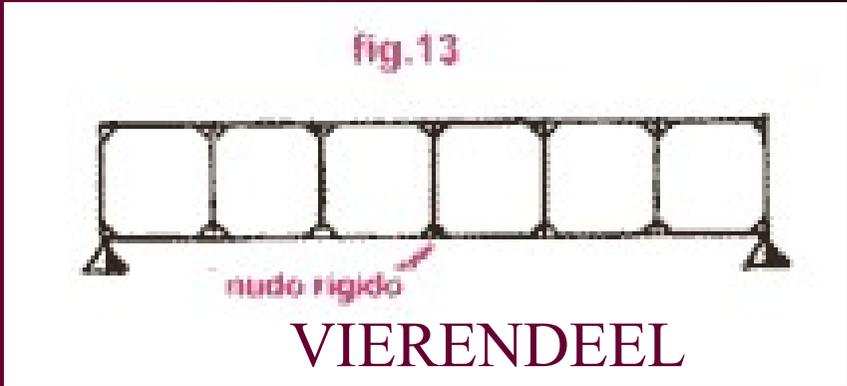
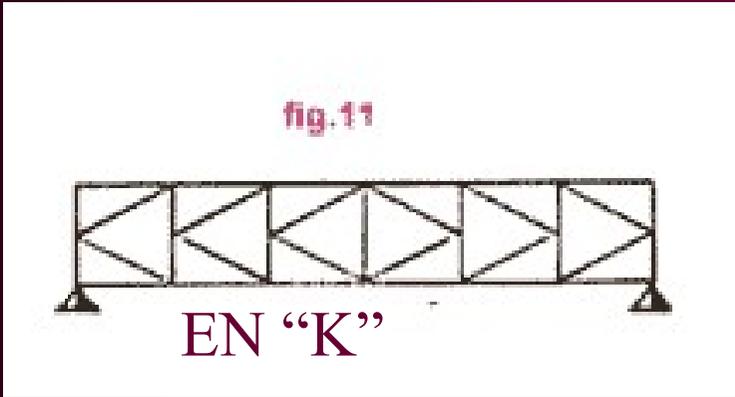
CRUZ DE SAN ANDRÉS

fig.9

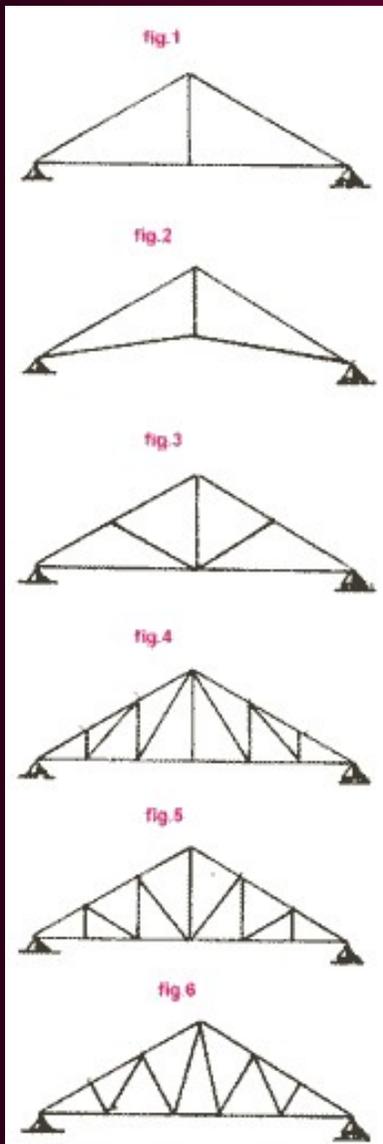


COMPUESTAS

Estructura de Cubierta – Tipos



Estructura de Cubierta – Tipos



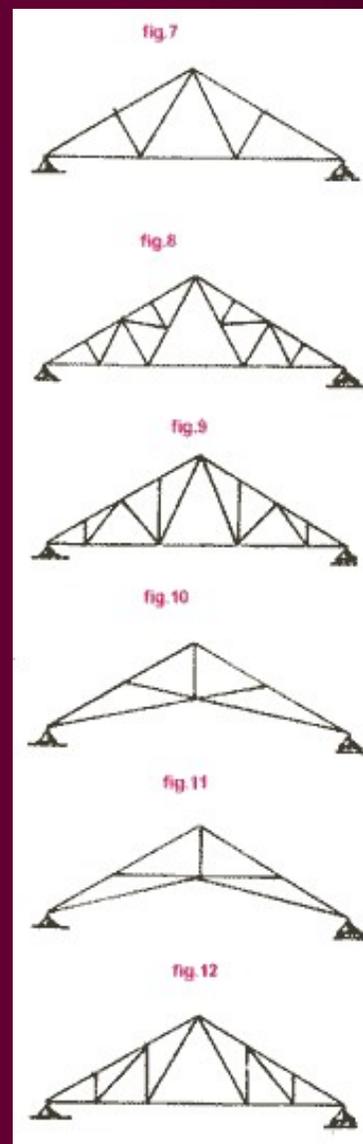
SIMPLE

ESPAÑOLA

INGLESA

AMERICANA

BELGA



POLONCEAU
SIMPLE

POLONCEAU
DOBLE

SUIZA

ALEMANA

FINK

PRATT

Estructura de Cubierta – Tipos

fig. 13

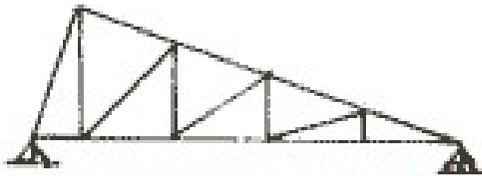
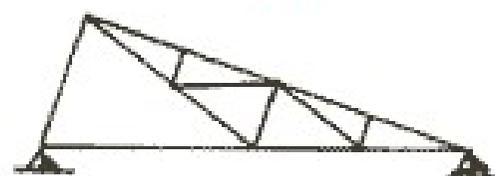


fig. 14

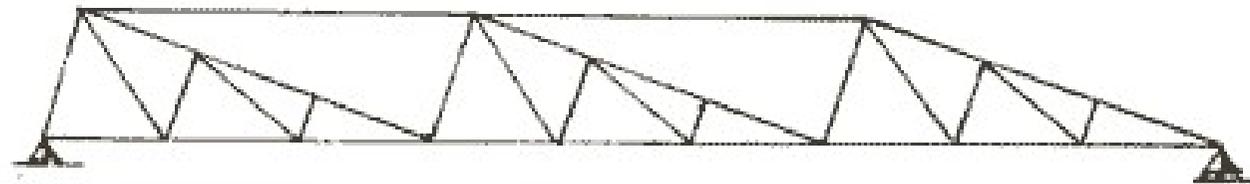


fig. 15



ESTRUCTURAS DE CUBIERTA TIPO SHED

fig. 16



ESTRUCTURAS TIPO MARQUESINA

fig. 17



fig. 18

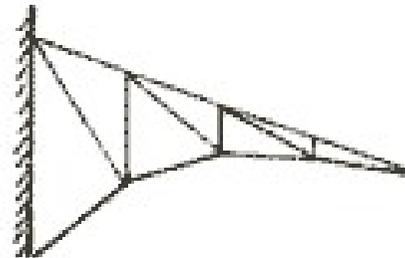
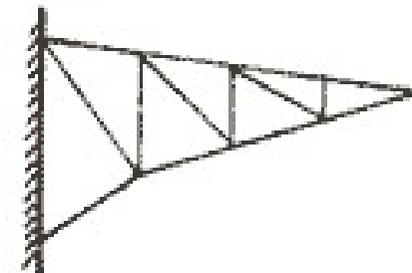
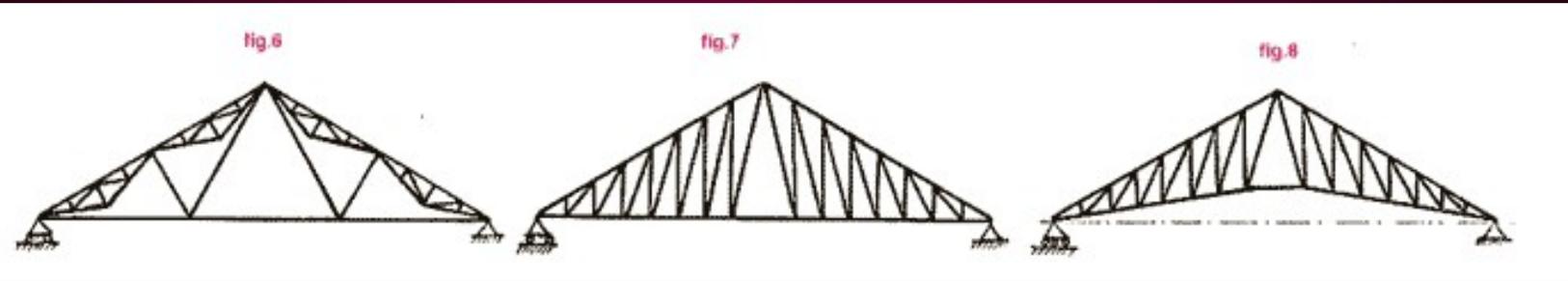
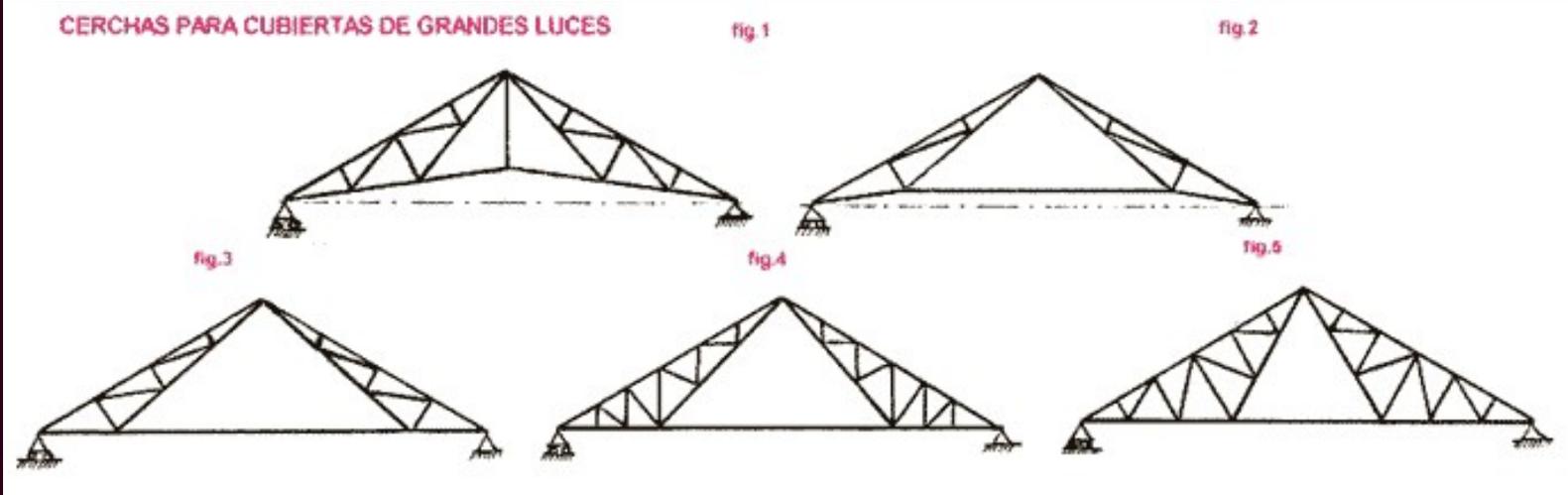


fig. 19



Estructura de Cubierta – Tipos



Estructura de Cubierta – Tipos

fig.9

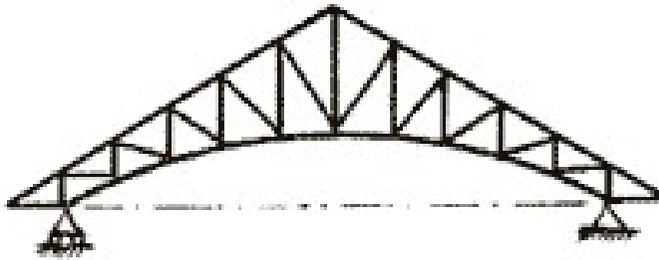


fig.10

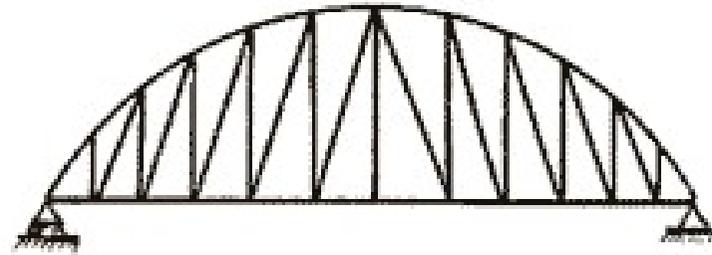
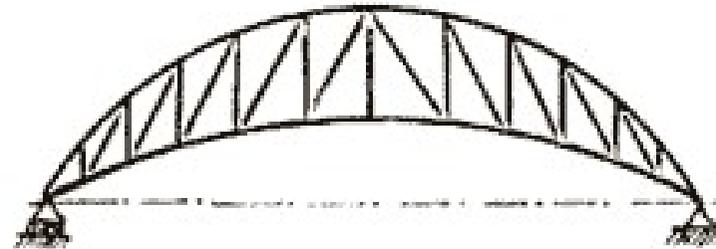


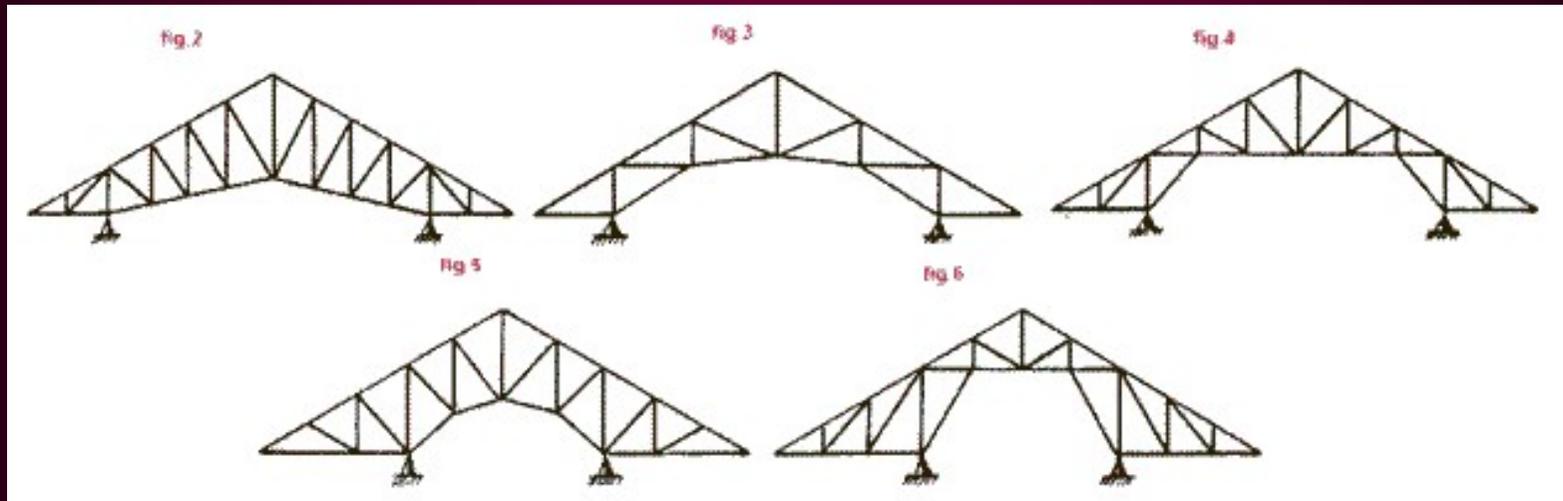
fig.11



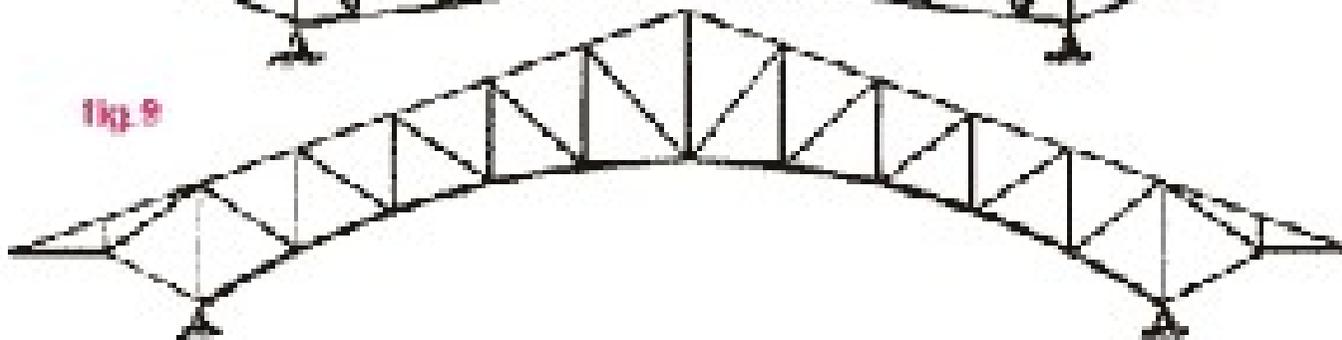
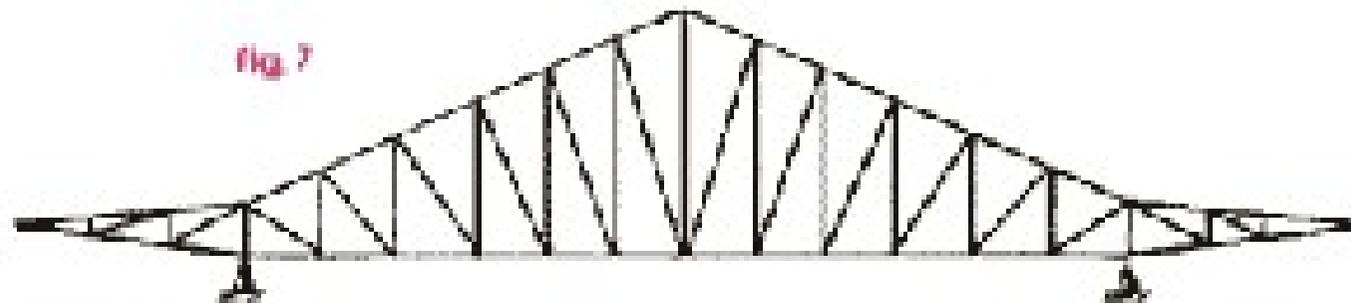
fig.12



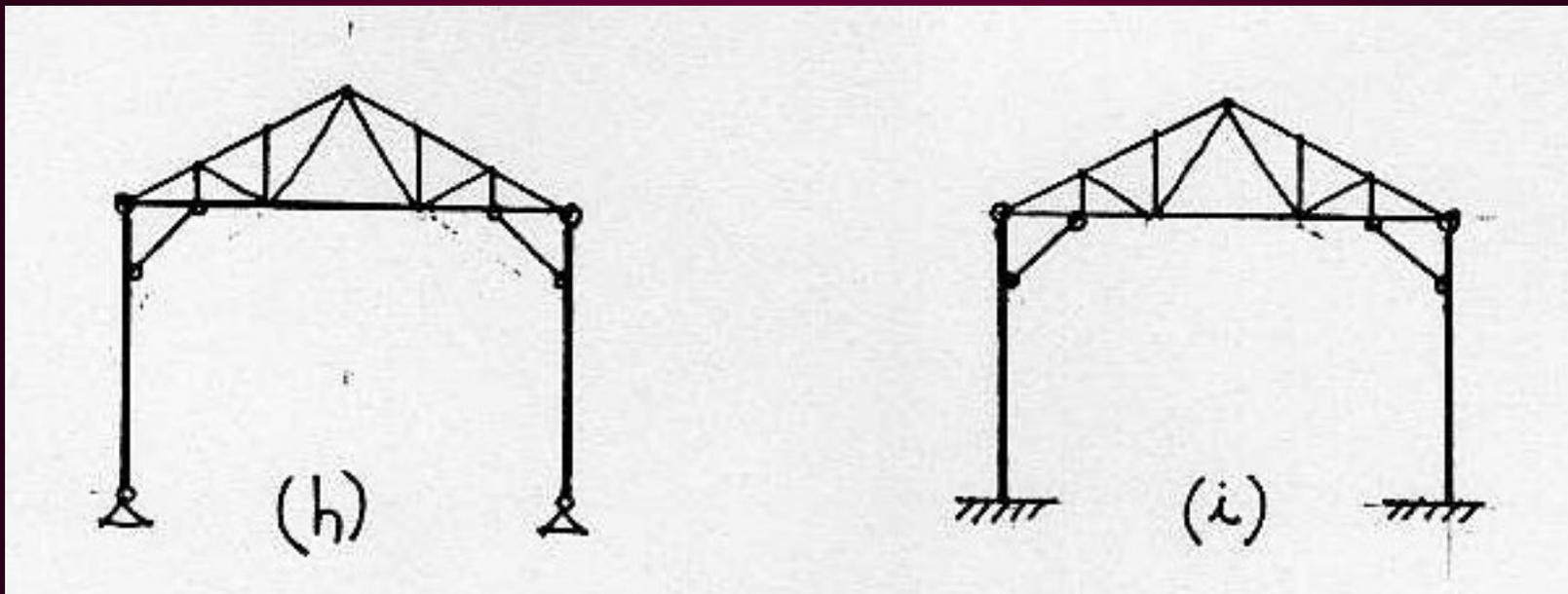
Estructura de Cubierta – Tipos



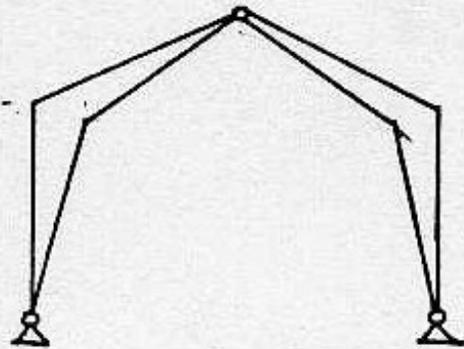
Estructura de Cubierta – Tipos



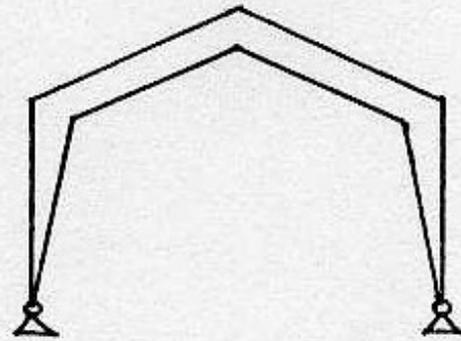
Estructura Transversal Tipo



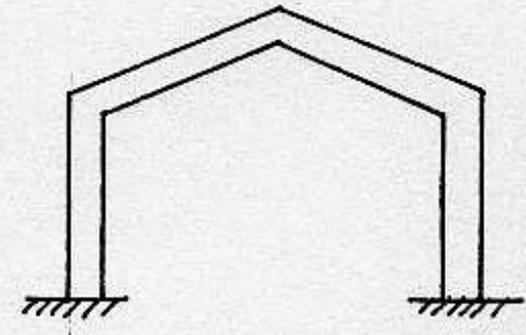
Estructura Transversal Tipo



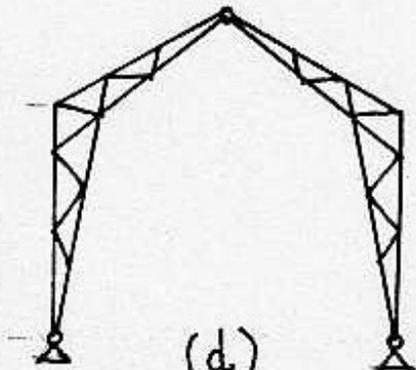
(a)



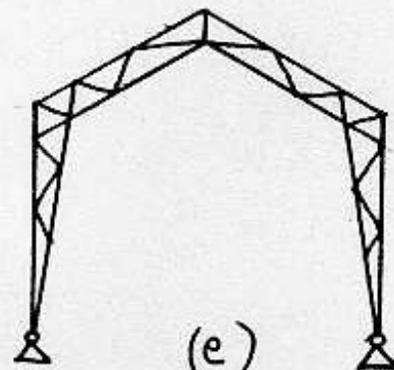
(b)



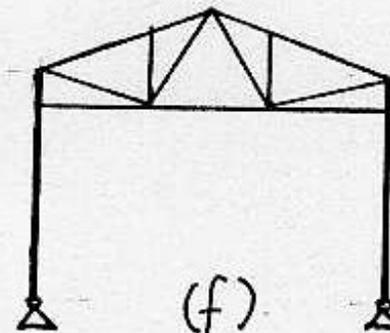
(c)



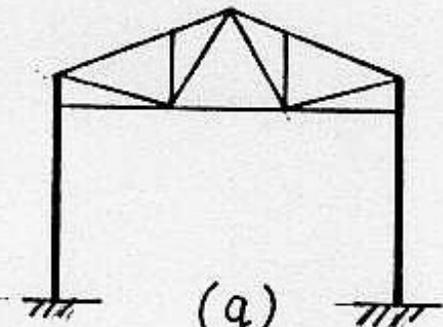
(d)



(e)



(f)



(g)

Plano de Cerramiento Lateral

