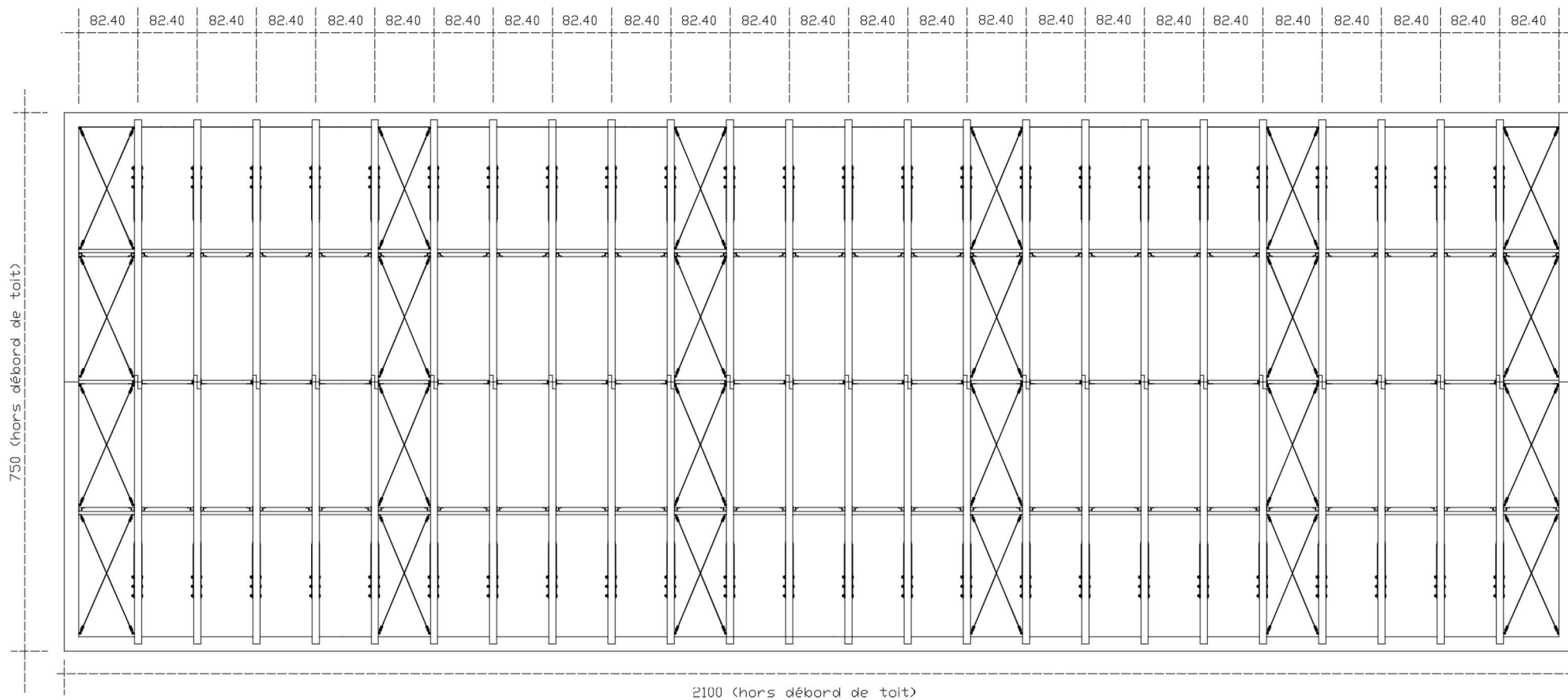
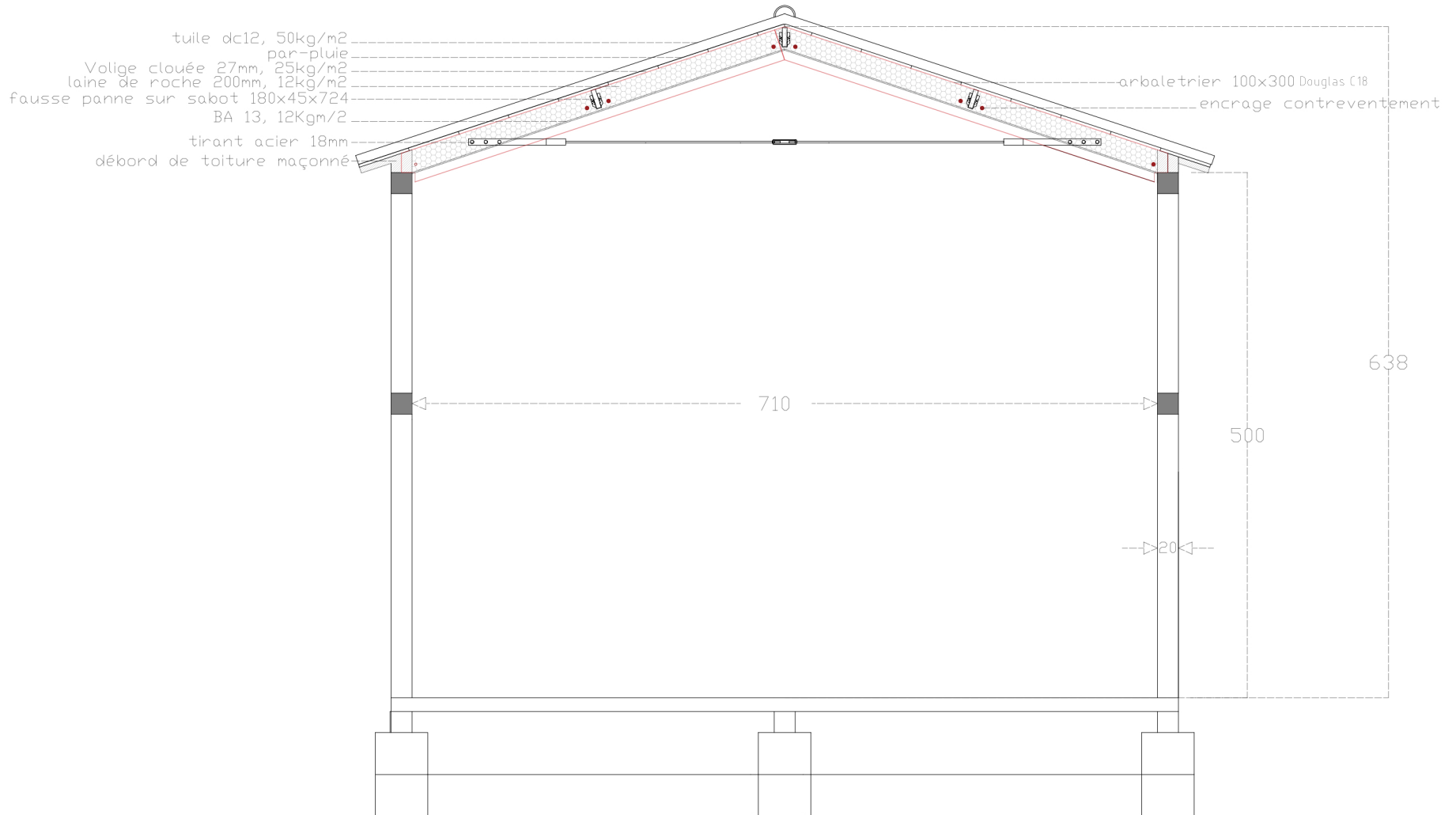


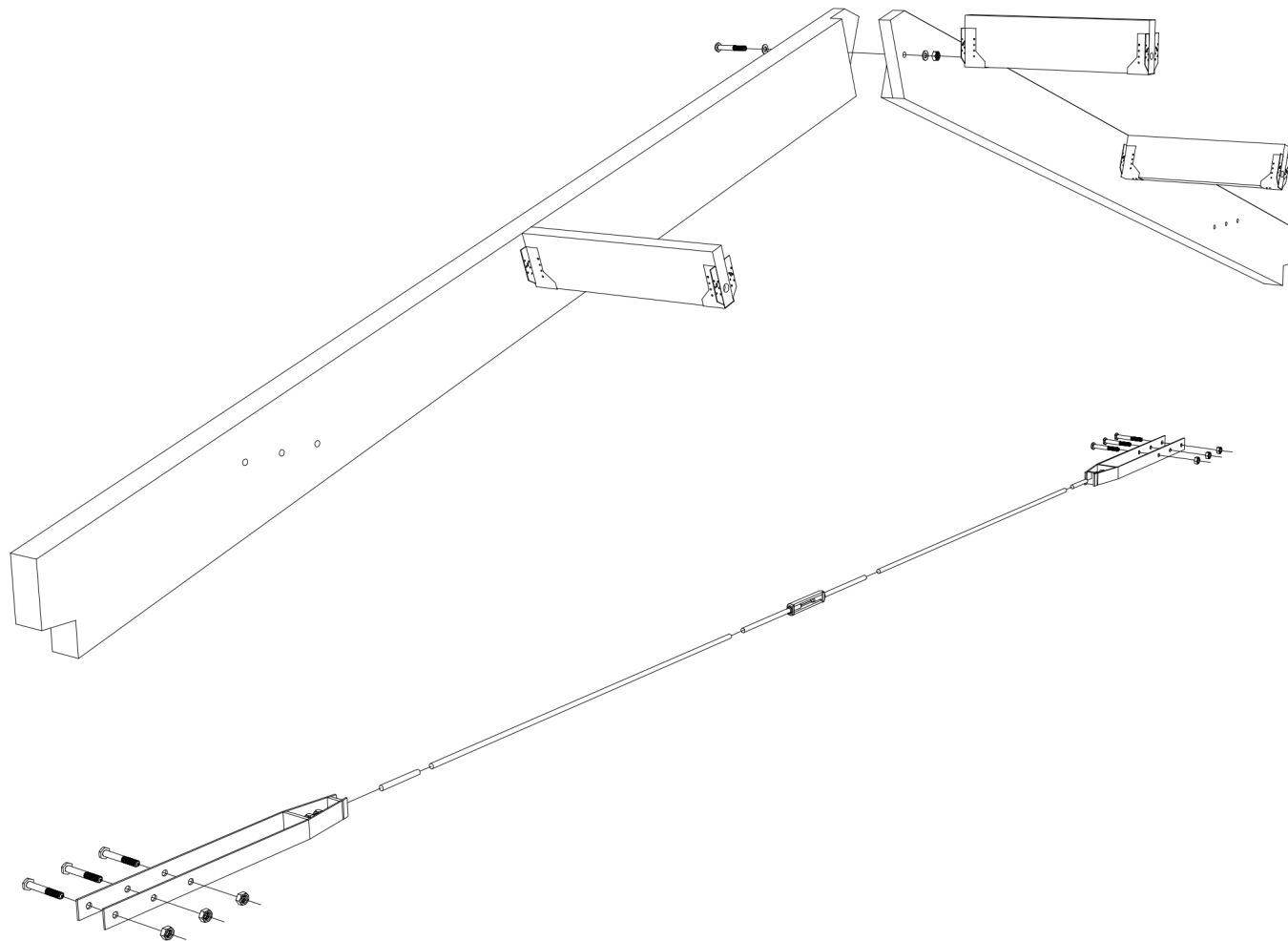
Plan toiture:



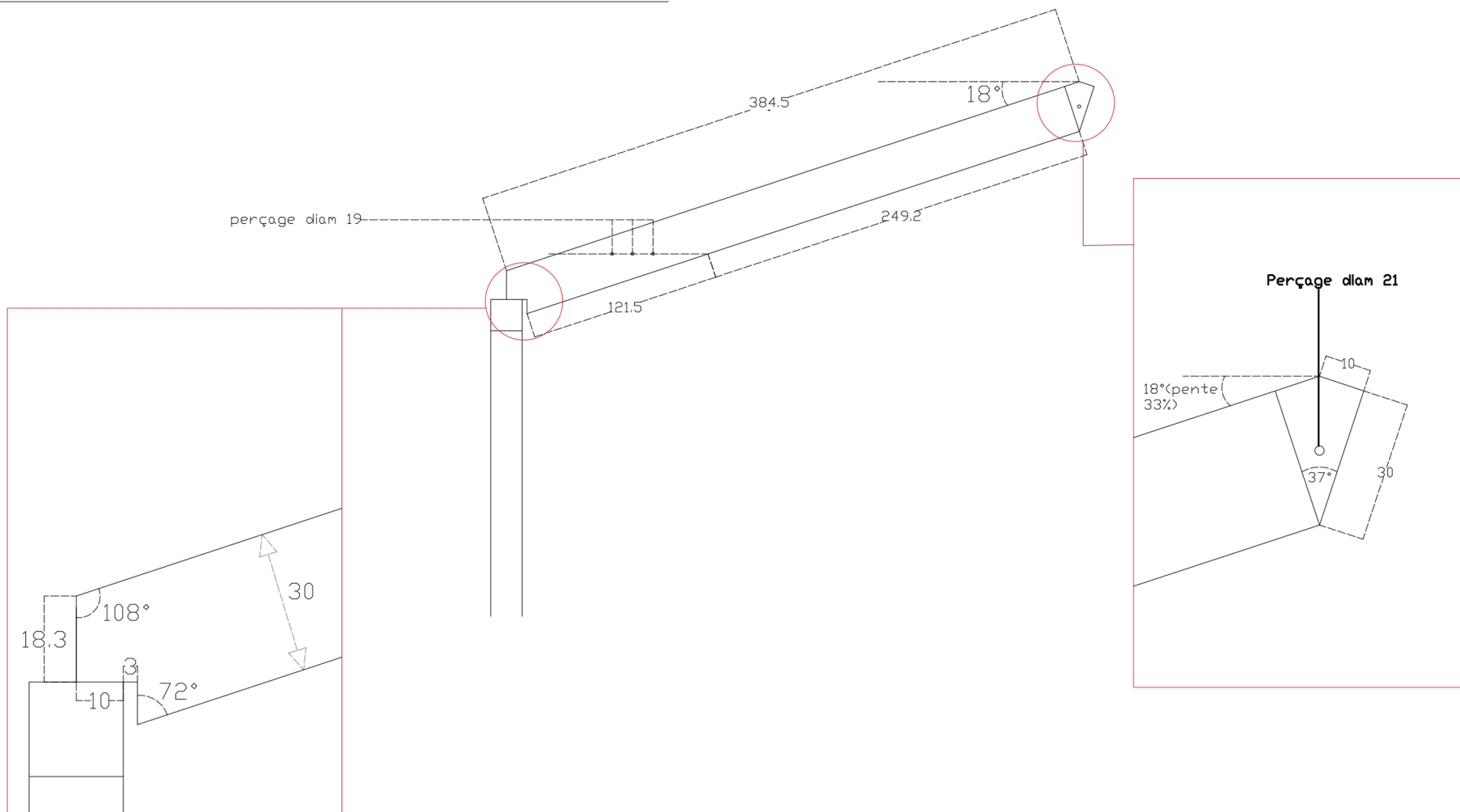
Coupe sur toiture:



Eclaté ferme:



Vue de face arbalétrier:



Vue en plan arbalétrier:



Détails de fabrication tirant:

Platine acier S235 6*60

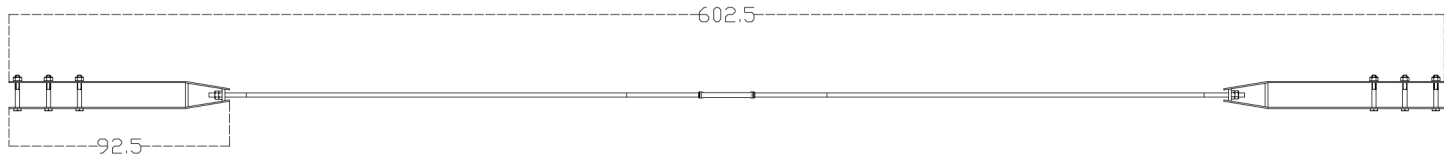
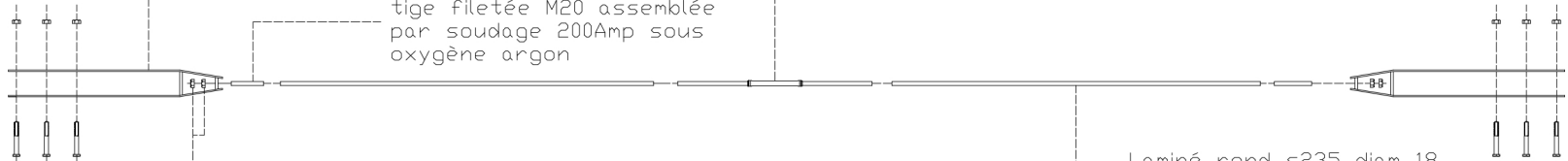
tendeur lanterne à souder M20 deux tiges 18mm (2130Kg), assemblage par soudage 200Amp sous oxygène argon

tige filetée M20 assemblée par soudage 200Amp sous oxygène argon

Laminé rond s235 diam 18

Boulons M18

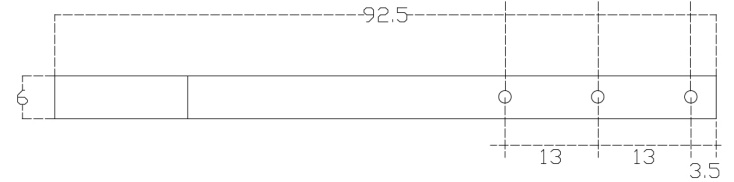
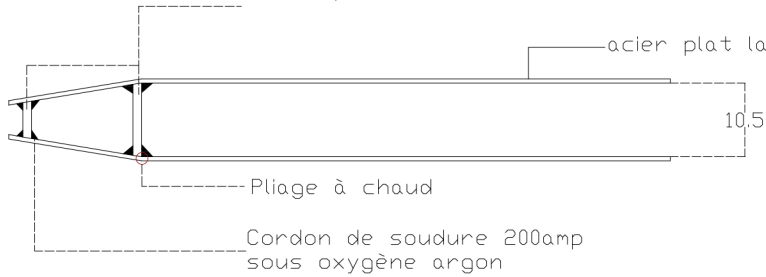
écrou, contre écrou M20



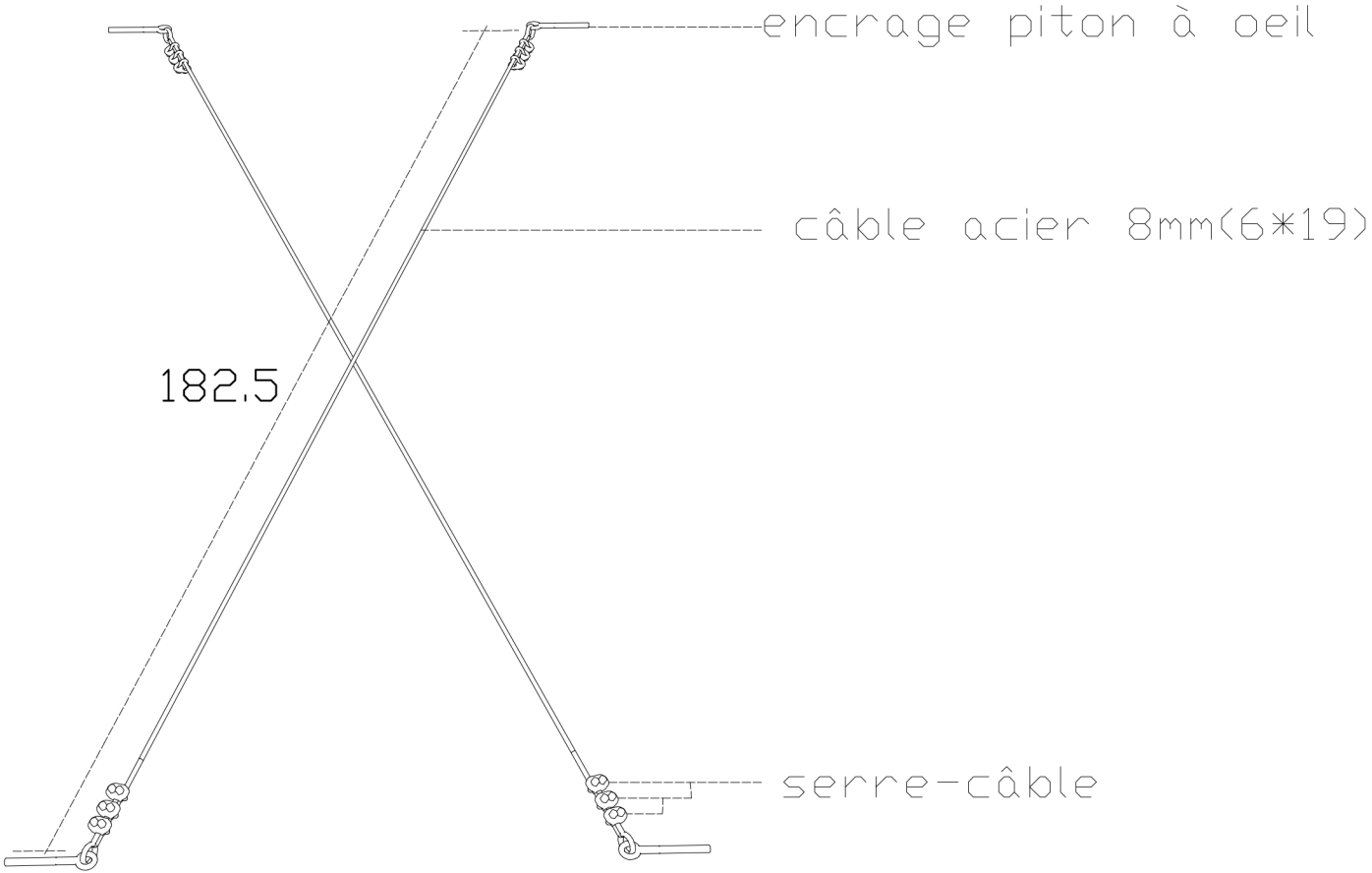
acier plat laminé s235 12*60

acier plat laminé s235 6*60

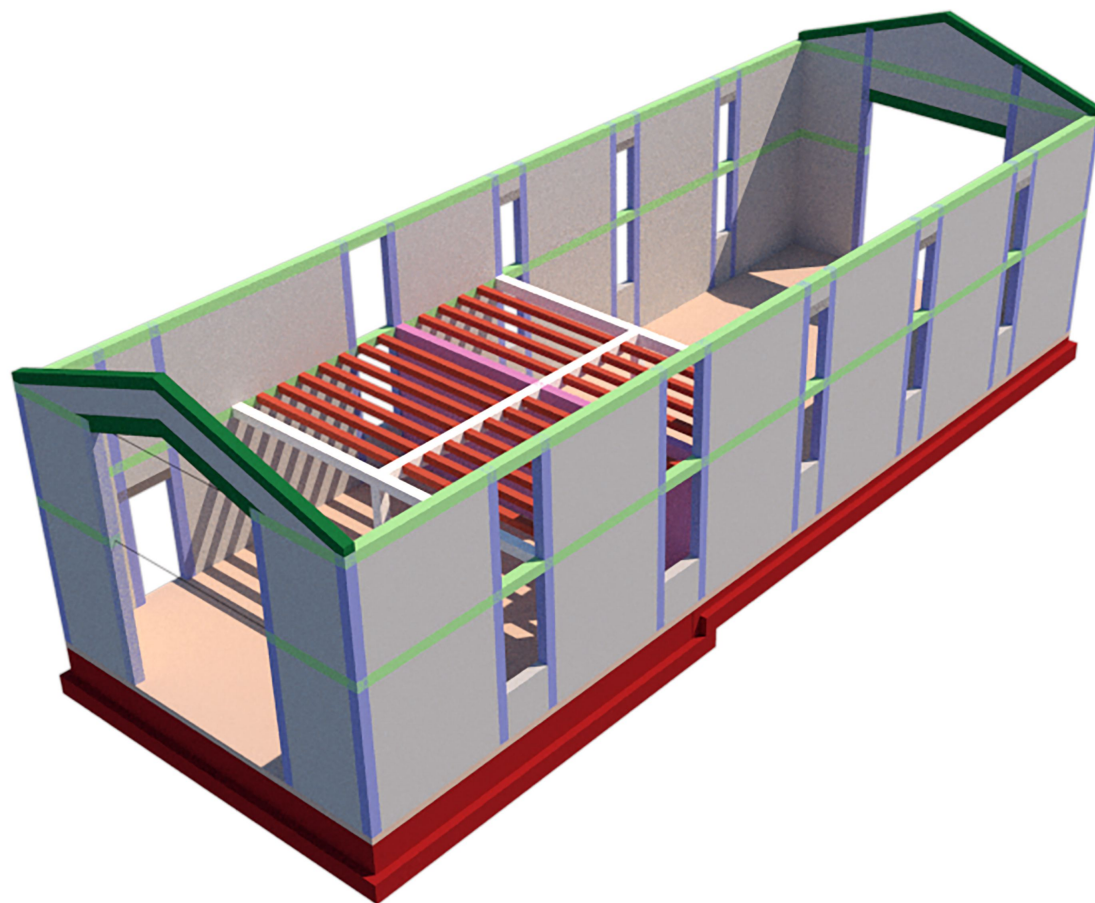
perçage diam 19



Détails contreventement:

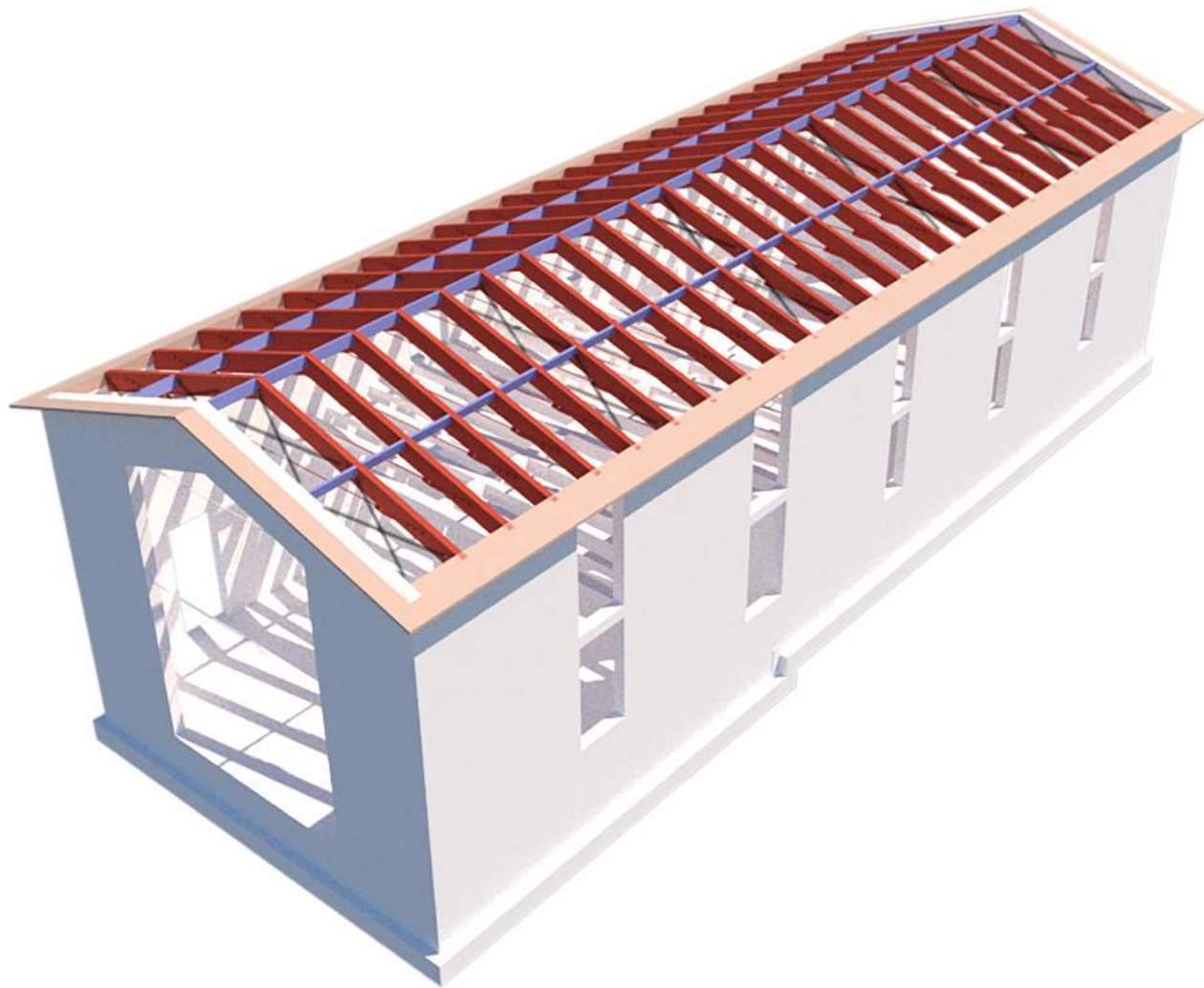


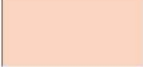
STRUCTURE DU BÂTIMENT :



-  FONDATIONS 40*50 ET VIDE SANITAIRE
-  CHAINAGE PARPAING U
-  JAMBAGE PARPAING D'ANGLE
-  LINTEAUX FENÊTRES
-  LINTEAUX PAR COFFRAGE
-  DALLE BÉTON
-  SOLIVE 20*10 DOUGLAS C18
-  MUR DE SÉPARATION (APPUYÉ SUR FONDATIONS)
-  REMPLISSAGE PARPAING 4 PAROIS
-  POTEAUX POUTRES BÉTONS

DISPOSITION DES FERMES



-  FERMES
-  FAUSSES PANNES
-  CONTREVENTEMENT
-  DÉBORD DE TOIT MAÇONNÉ