

MAITRE D'OUVRAGE:


Caen la Mer Habitat
1 Place Jean Nouzille
14000 Caen

ENTREPRISE GENERALE:


BOUYGUES BATIMENT GRAND OUEST
Allée du Grand Clos – 14320 Saint-André-sur-Orne
T.: 02 78 96 08 23
Fax: 02 31 52 96 53

23 LOGEMENTS

59, Avenue de la Libération – Caen



MAITRE D'OEUVRE		
MILLET CHILOU & ASSOCIES Architecte	8, Rue du Blanc 14000 Caen Tél.: 02 31 74 42 62 / Fax: 02 32 74 84 34 Email: accueil@mca-architectes.com	
BOULARD BET Fluides & Thermique	4, Longue vue des architectes 14111 Louvigny Tél.: 02 31 23 61 56 Email: etudes@boulard14.com	
BADER BET Fluides Electricité	4, Longue vue des architectes 14111 Louvigny Tél.: 09 53 20 89 49 / Fax: 09 58 20 89 49	
IBATEC-BETON BET STRUCTURE	15, Rue Karl Probst 14000 Caen Tél.: 02 31 35 24 25 / Fax: 02 31 35 24 29 Email: mehti@ibatec-beton.fr	

CONTROLE		
VERITAS Bureau de contrôle	4, Place de Boston – BP62 14203 Hérouville-St-Clair Cedex Tél : 02 31 94 91 21	
DEKRA SPS	4, rue Alfred Kastler 14000 Caen Tél : 02 31 35 27 00	
BUREAU D'ETUDES EXE		
3, Rue du Thiers 61300 L'Aigle Tél. : 02 33 24 40 38 Fax : 02 33 34 45 48		

PLANCHER BAS SOUS-SOL : ARMATURES MASSIFS

Date	01/09/17				Échelle	-
Phase	Lot	Nature	Emetteur	Niveau	N°	Indice
EXE	02	ARM	SEM	FON	0103	0

DATE	INDICE	OBJET DE LA MODIFICATION
01/09/17	0	Première diffusion

CAEN HABITAT

1, place Jean Nouzille - 14052 CAEN



MILLET - CHILOU & ASSOCIÉS

SARL d'Architecture

Siège social : 8, rue du Blanc 14000 CAEN
SIRET 502 658 263 00012 RCS CAEN APE 7111Z

Tel 02.31.74.42.62 Fax 02.31.74.84.34
E.mail : accueil@mca-architectes.com

Entreprise :



BOUYGUES BÂTIMENT
Allée du Grand Clos
14320 ST ANDRE SUR ORNE
Tel : 02.31.78.96.20 - Fax : 02.31.52.96.53

Construction de 23 logements

59, Avenue de la Libération - 14000 CAEN

MASSIFS

ARMATURES

**COUPES
VUE EN PLAN**

Plan n°

1.02

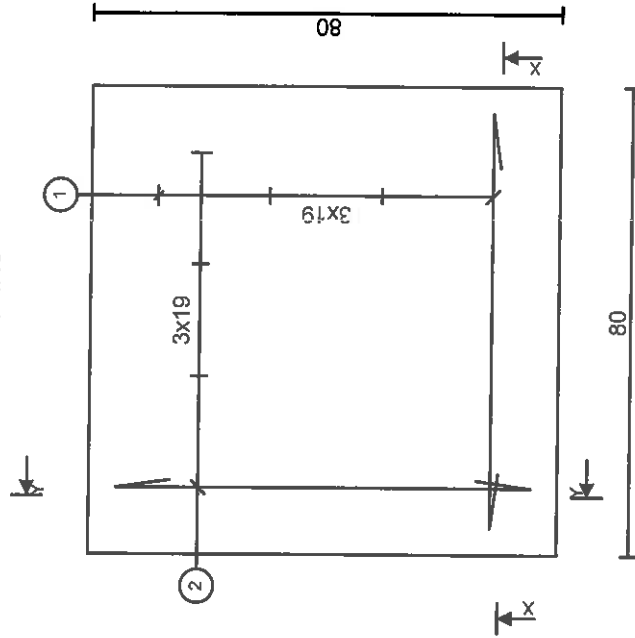
Ind.	Date	Modifications	Date :
			01/09/17
			Format :
			A4
			Affaire :
			17042
			Suivi par :
			LEFAUCHEUX Quentin

3, rue du Thiers
61300 L'AIGLE

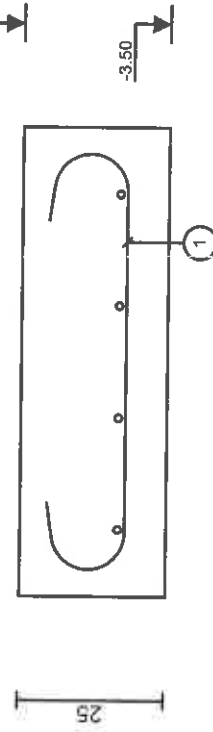
Tél: 02 33 24 40 38
Fax: 02 33 34 45 48
e-mail: contact@bet-semo.fr

fck= 25 MPa	f _{yk} = 500 MPa	Classe d'exposition: XC2
-------------	---------------------------	--------------------------

Elévation
Echelle=1/13

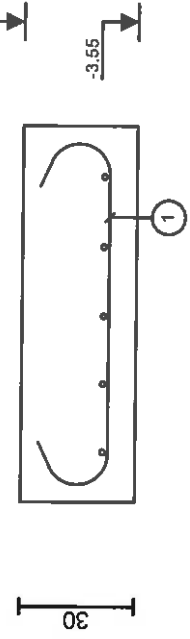
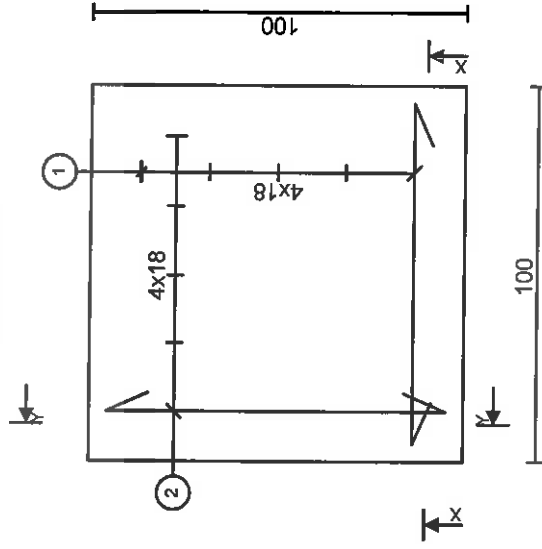


Coupe XX
Echelle=1/13



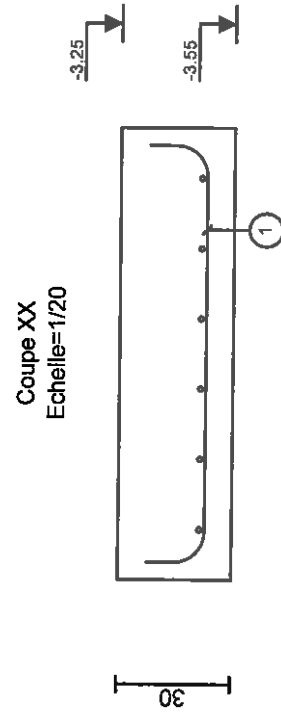
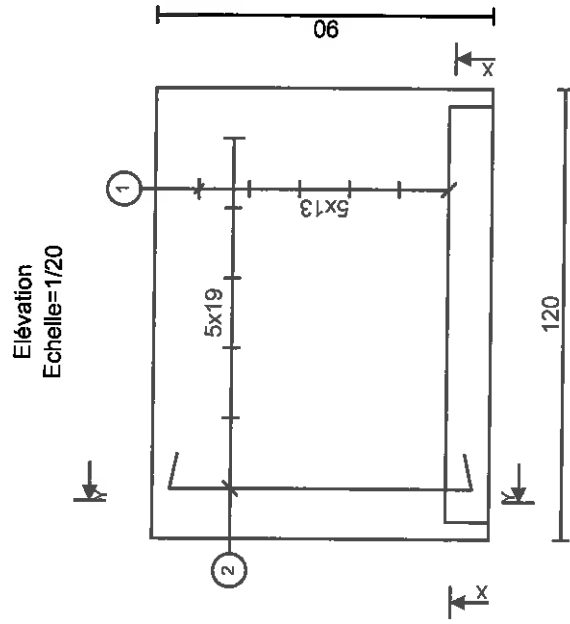
Barre		Lg	Forme
1	4HA12	108	13 13 172° 131° 172° 72
2	4HA12	108	13 13 172° 131° 172° 72
Barre		Lg/Poids	
HA12		8.6/7.7	

f_{ck}= 25 MPa f_{yk}= 500 MPa



Barre		Lg	Forme
1	5HA14	132	$\frac{16}{156}$ $\frac{76}{161}$ $\frac{16}{92}$ $\frac{156}{156}$
2	5HA14	132	$\frac{16}{156}$ $\frac{76}{161}$ $\frac{16}{92}$ $\frac{156}{156}$
Barre		Lg/Poids	
HA14		13.2/16.0	

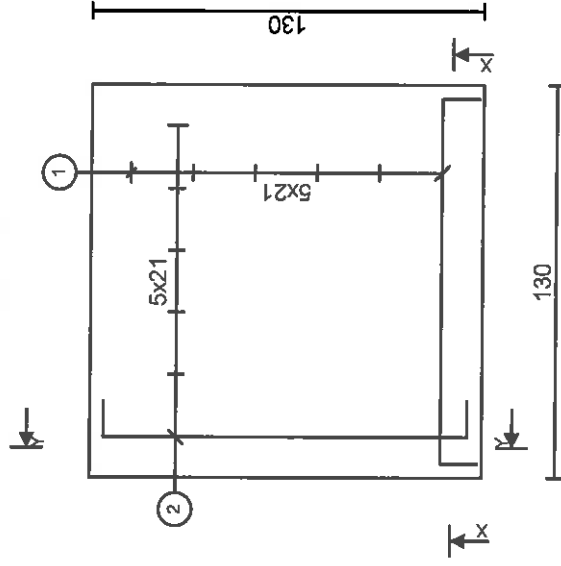
fck= 25 MPa	f _{yk} = 500 MPa	Classe d'exposition: XC2
-------------	---------------------------	--------------------------



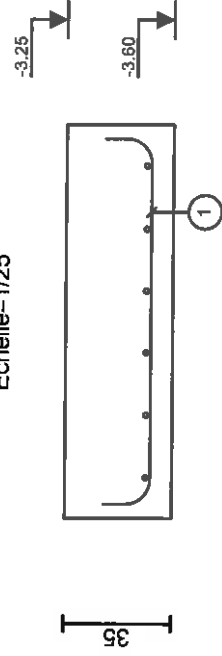
Barre		Lg	Forme
1	6HA14	134	$\frac{9}{90^\circ} \frac{16}{112} \frac{16}{90^\circ}$
2	6HA12	114	$\frac{8}{102^\circ} \frac{13}{82} \frac{13}{102^\circ}$
Barre		Lg/Poids	
HA12		6.8/6.0	
HA14		8.0/9.7	



fck= 25 MPa	fyk= 500 MPa	Classe d'exposition: XC2
-------------	--------------	--------------------------

Elévation
Echelle=1/25

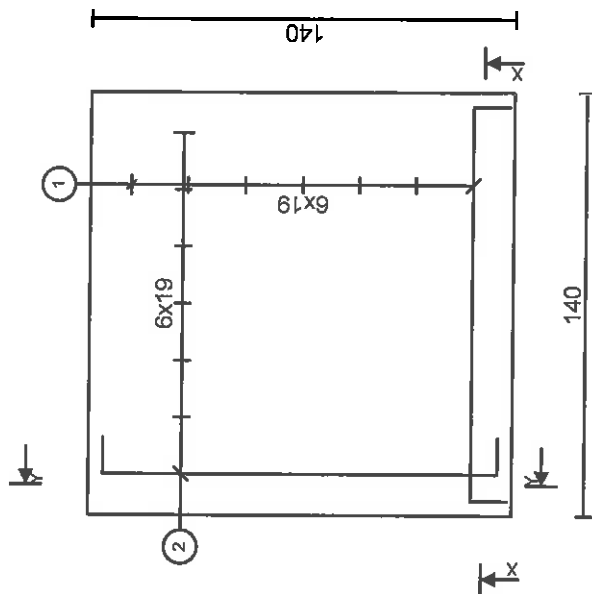


Coupe XX
Echelle=1/25

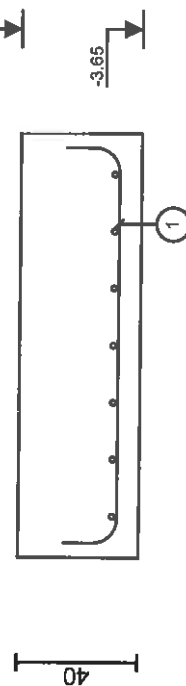


Barre		Lg	Forme
1	6HA14	144	
2	6HA14	144	
Barre		Lg/Poids	
HA14		17 2/20 8	

Elévation
Echelle=1/25



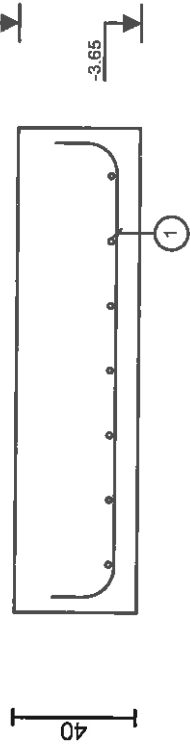
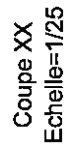
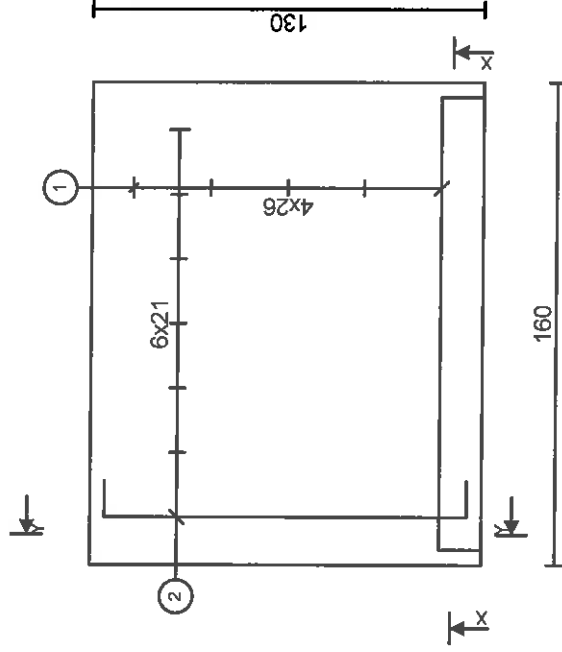
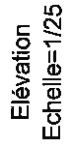
Coupe XX
Echelle=1/25





Barre		Lg	Forme
1	7HA16	159	$\frac{\infty}{90^\circ} \begin{array}{ c } \hline 16 \\ \hline \end{array} \frac{\infty}{132} \frac{\infty}{90^\circ}$
2	7HA16	159	$\frac{\infty}{90^\circ} \begin{array}{ c } \hline 16 \\ \hline \end{array} \frac{\infty}{132} \frac{\infty}{90^\circ}$
Barre		Lg/Poids	
HA16		22 2/35 1	

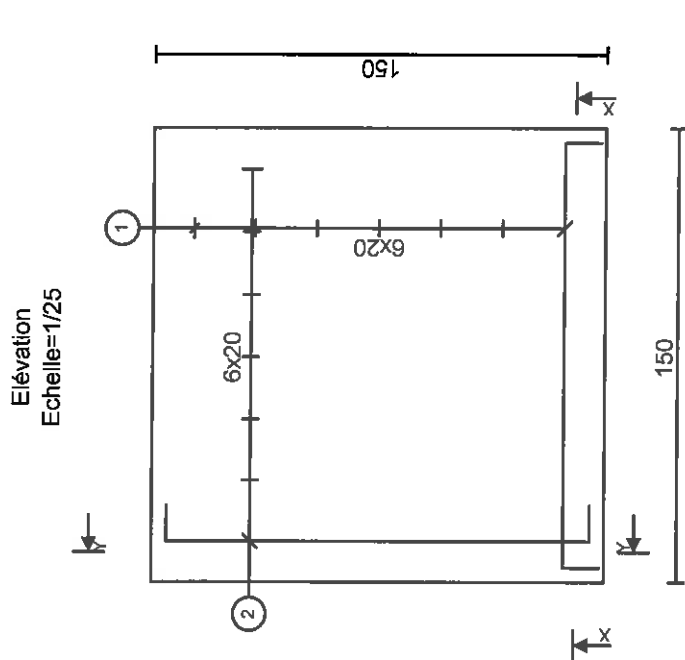
- Date 03/05/17 - 7 étages -

fk=	25 MPa	f _{yk} =	500 MPa	Classe d'exposition:	XC2
-----	--------	-------------------	---------	----------------------	-----

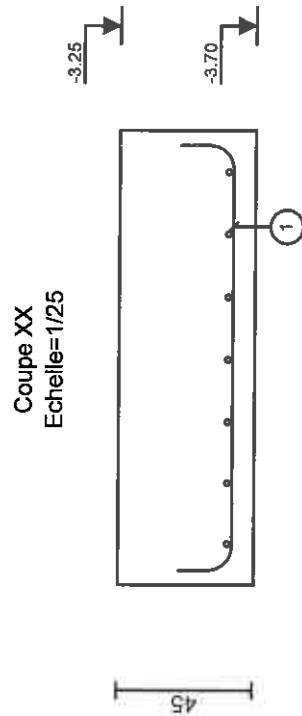


	Barre	Lg	Forme
1	5HA20	181	
2	7HA16	146	
	Barre	Lg/Poids	
	HA16 HA20		10.2/16.1 9.1/22.4

- Date 03/05/17 - 7 étages -	
fck= 25 MPa	fyk= 500 MPa
Classe d'exposition: XC2	

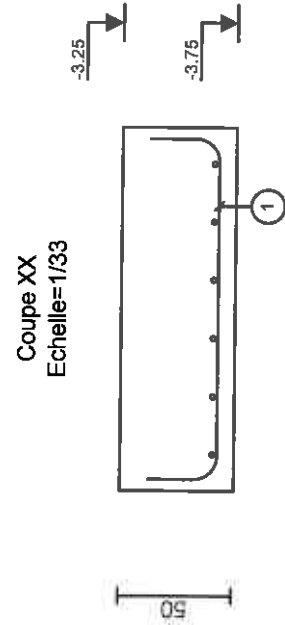
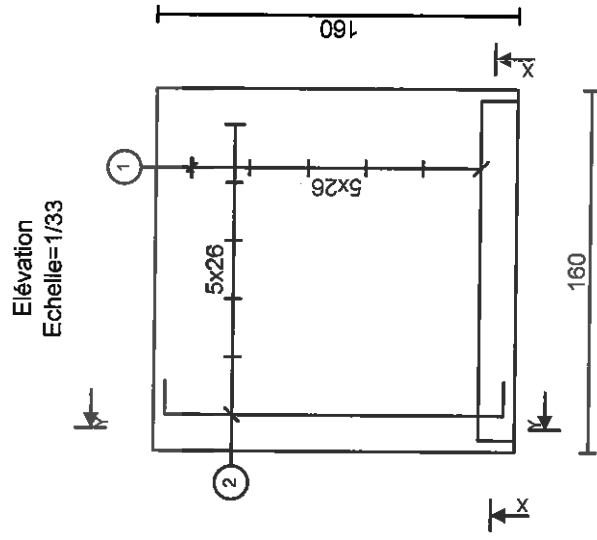


Elévation
Echelle=1/25



Coupe XX
Echelle=1/25

Barre		Lg	Forme
1	7HA16	169	$\frac{\infty}{90^\circ} \left \frac{16}{142} \right \frac{\infty}{90^\circ}$
2	7HA16	169	$\frac{\infty}{90^\circ} \left \frac{16}{142} \right \frac{\infty}{90^\circ}$
Barre		Lg/Poids	
HA16		23.6/37.3	



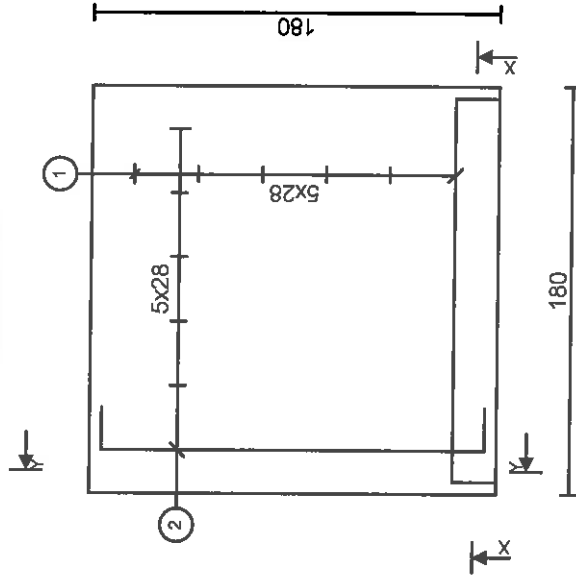
Barre		Lg	Forme
1	6HA20	201	$\begin{array}{c} \text{ss} \\ 90^\circ \end{array} \begin{array}{c} 20 \\ 152 \end{array} \begin{array}{c} \text{ss} \\ 90^\circ \end{array}$
2	6HA20	201	$\begin{array}{c} \text{ss} \\ 90^\circ \end{array} \begin{array}{c} 20 \\ 152 \end{array} \begin{array}{c} \text{ss} \\ 90^\circ \end{array}$
Barre		Lg/Folds	
HA20		24.2/59.6	

- Date 03/05/17 - 7 étages -

- Date d'essai: 17 - 7 étages - fck= 25 MPa f _{yk} = 500 MPa Classe d'exposition: XC2

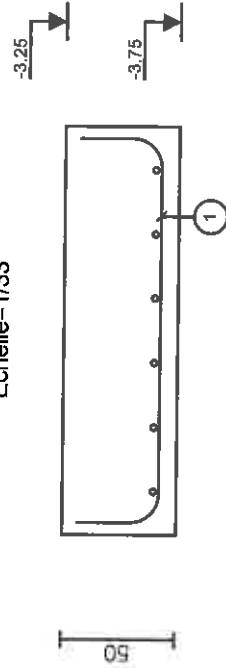
Elévation

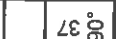

Echelle=1/33



Coupe XX

Echelle=1/33

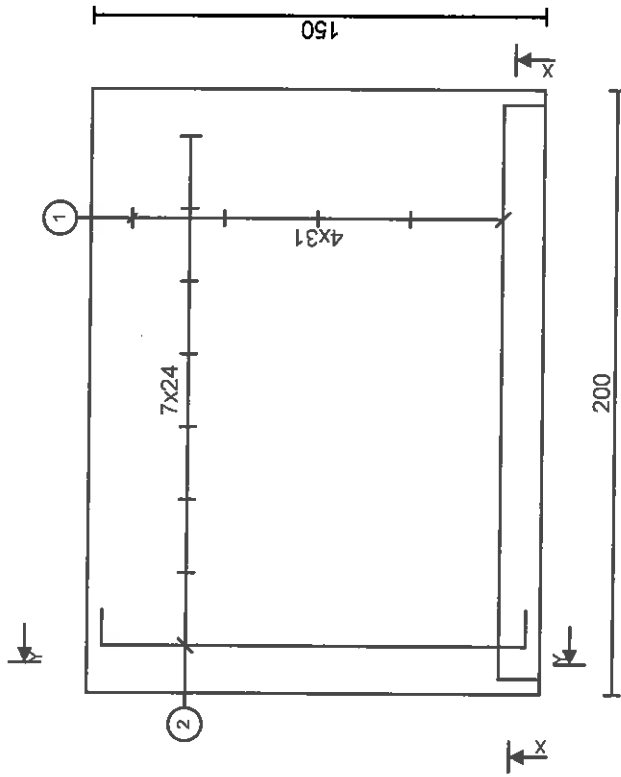


Barre		Lg	Forme
1	6HA25	230	
2	6HA25	230	
Barre		Lg/Folds	
HA25		27 6/106 3	

- Date 03/05/17 - 7 étages -

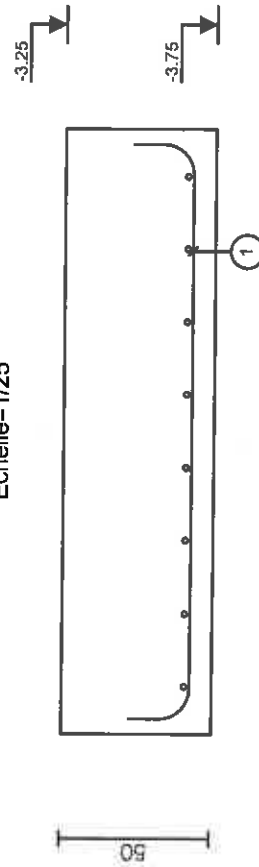
- Date 03/05/17 - / etages -	fck= 25 MPa	f _{yk} = 500 MPa	Classe d'exposition: XC2
------------------------------	-------------	---------------------------	--------------------------

Elévation
Echelle=1/25



Barre		Lg	Forme
1	5HA20	221	
2	8HA16	166	
Barre		Lg/Poids	
HA16		13.2/20.9	
HA20		11.1/27.3	

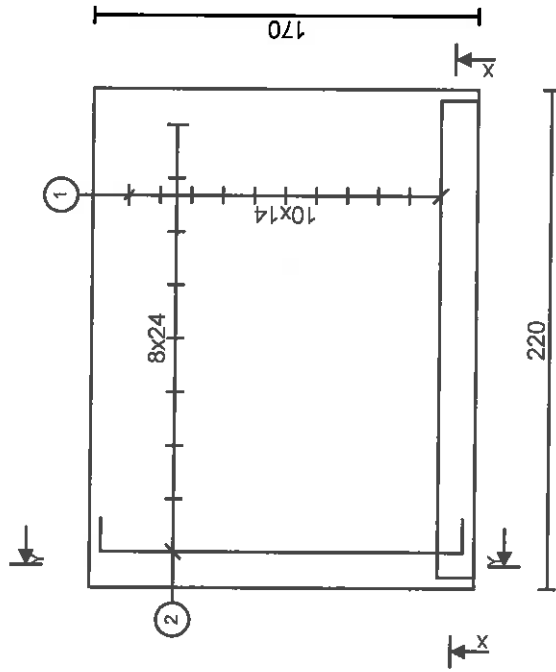
Coupe XX
Echelle=1/25



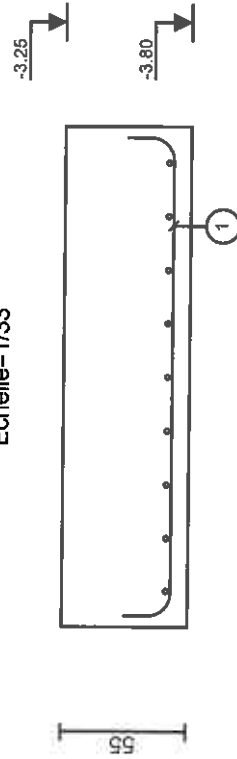
- Date 03/05/17 - 7 étages -

- Date 03/03/17 - 7 étages -	fck= 25 MPa	fyk= 500 MPa	Classe d'exposition: XC2
------------------------------	-------------	--------------	--------------------------

Elévation
Echelle=1/33



Coupe XX
Echelle=1/33



Barre		Lg	Forme
1	11HA20	241	$\overline{N} \mid \begin{smallmatrix} 20 & 20 \\ 90^\circ \end{smallmatrix} \mid \overline{N}$ 212 90°
2	9HA20	211	$\overline{N} \mid \begin{smallmatrix} 20 & 20 \\ 90^\circ \end{smallmatrix} \mid \overline{N}$ 162 90°
Barre		Lg/Poids	
HA20		45 6/112 4	

