



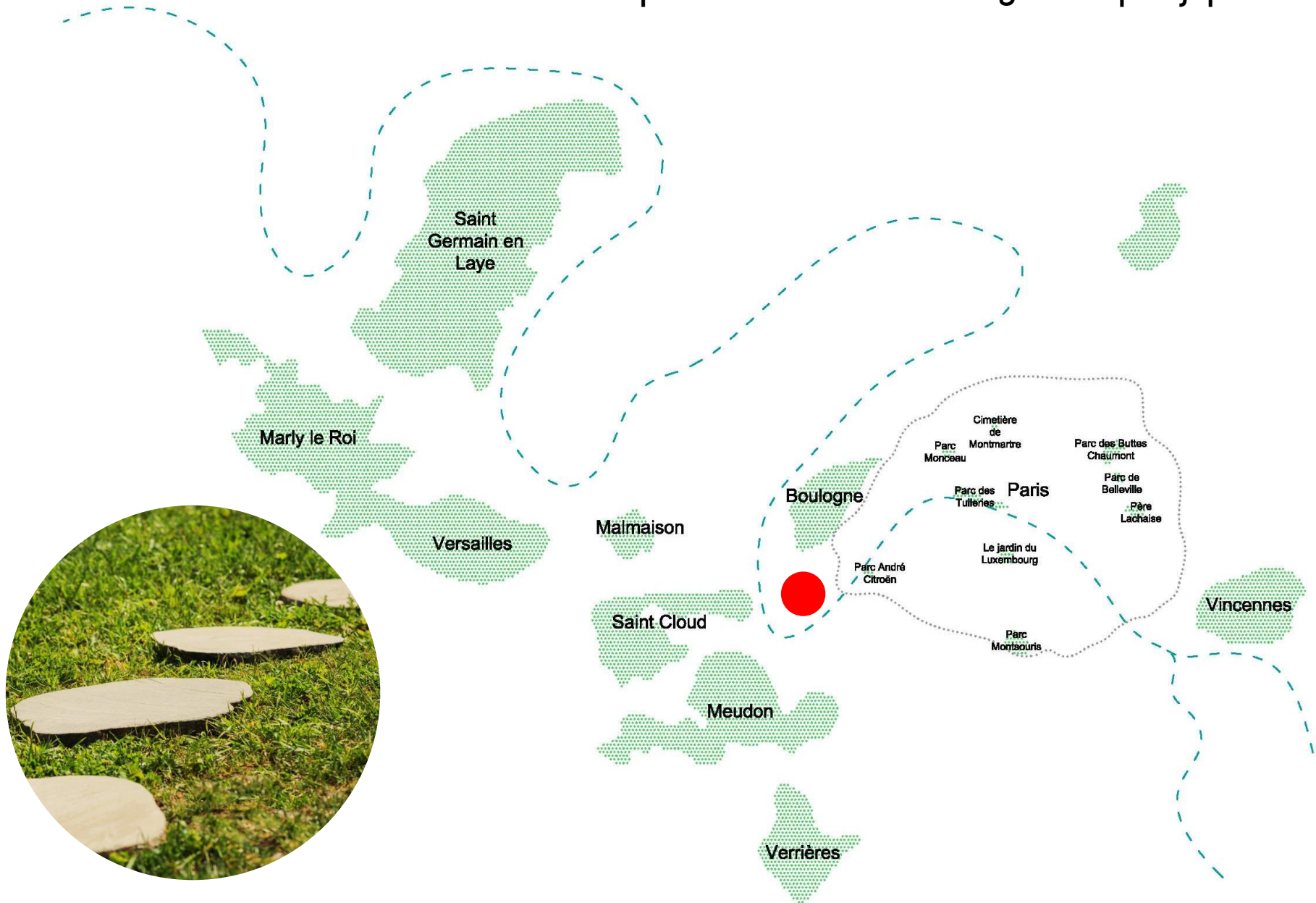
Béton et Biodiversité

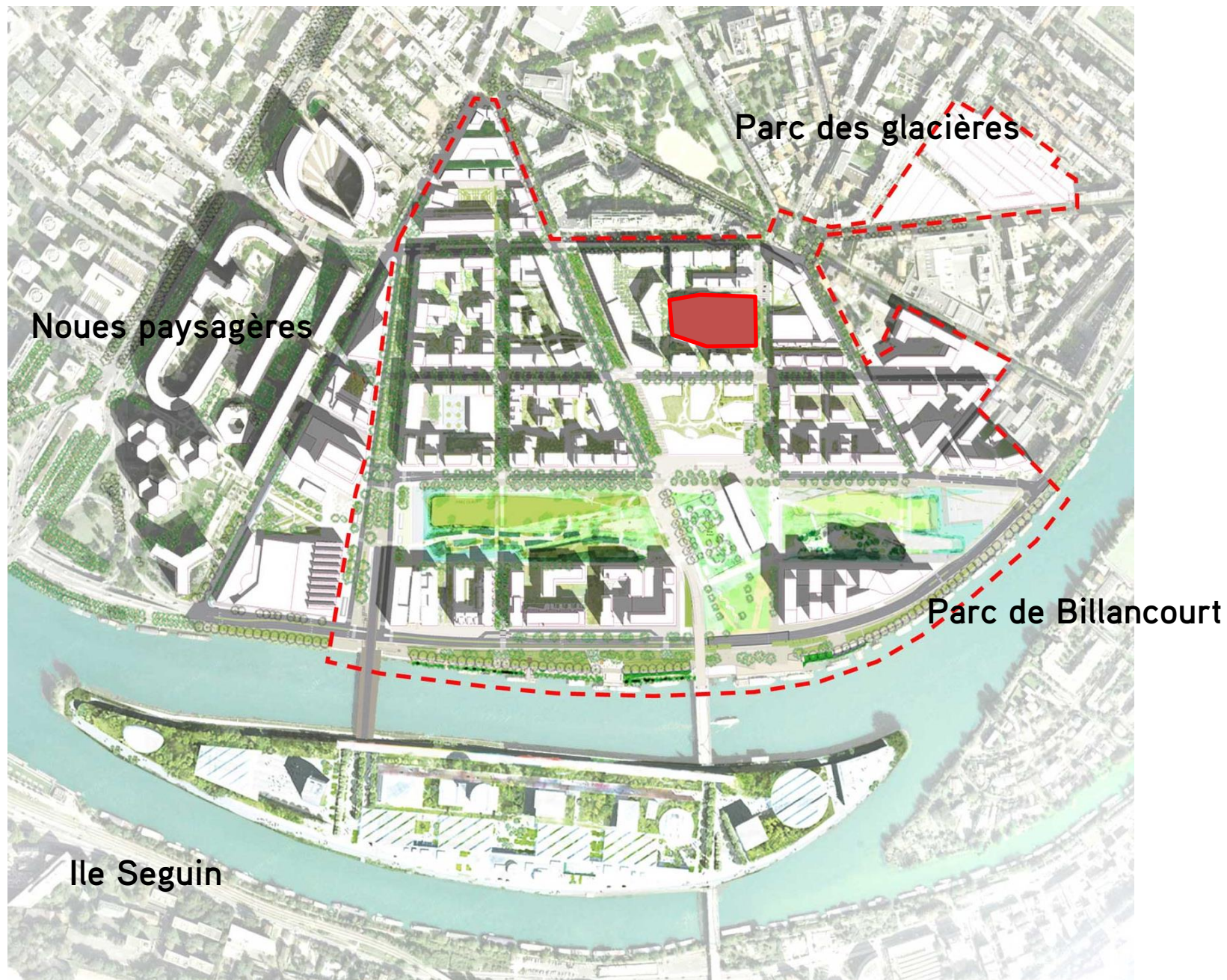
Le mur habité du groupe scolaire de Boulogne-Billancourt

Chartier-Dalix Architectes

La trame verte à l'échelle de la région

La position du GS de Boulogne: un pas japonais







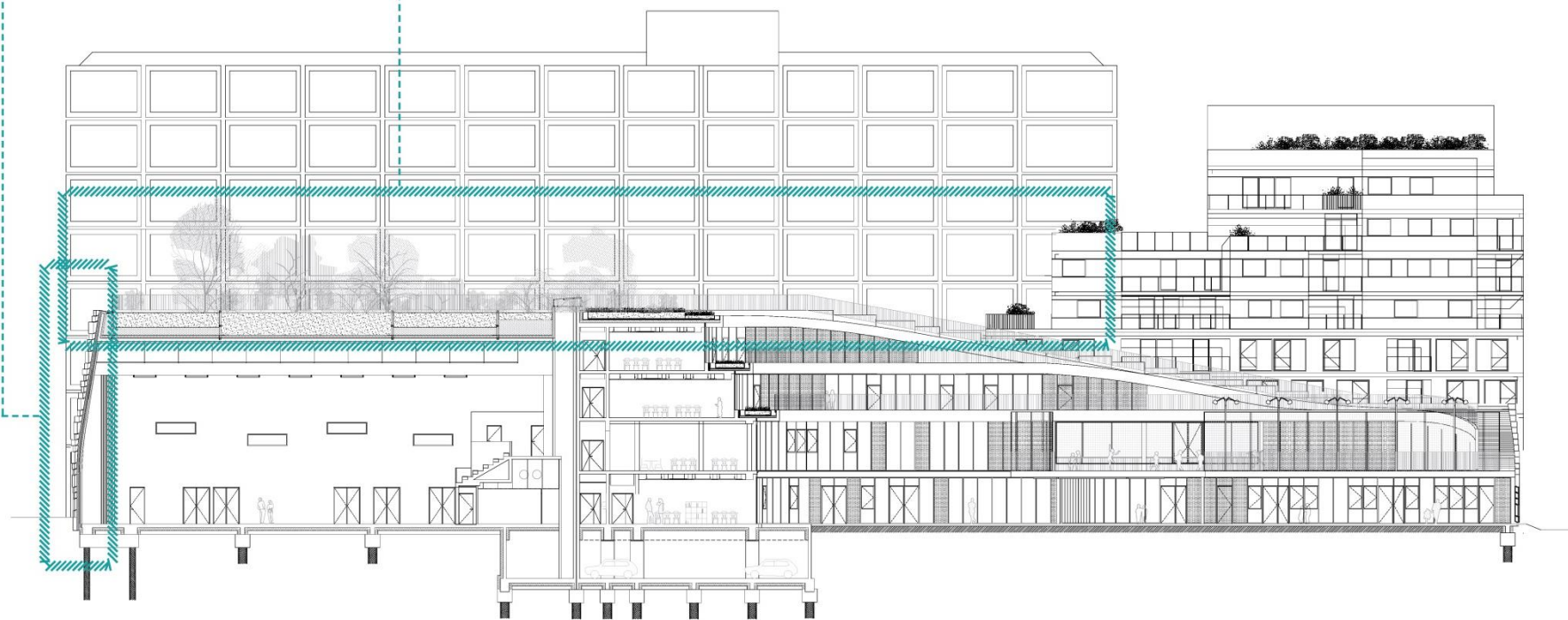






Le Mur

Le Toit





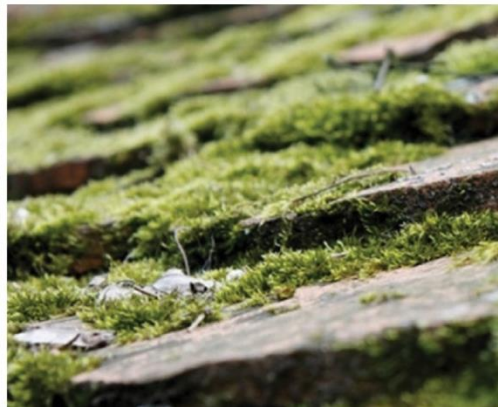




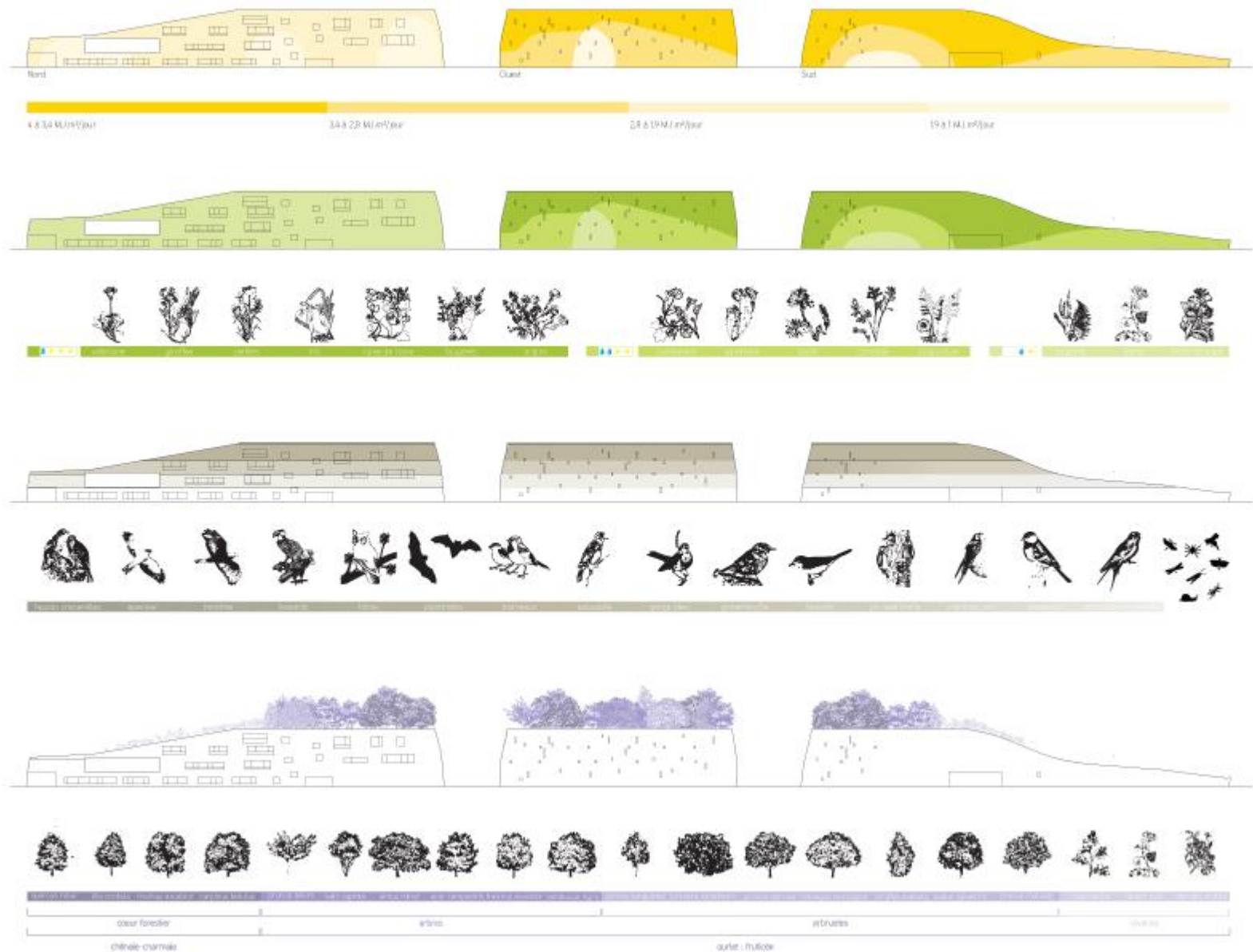




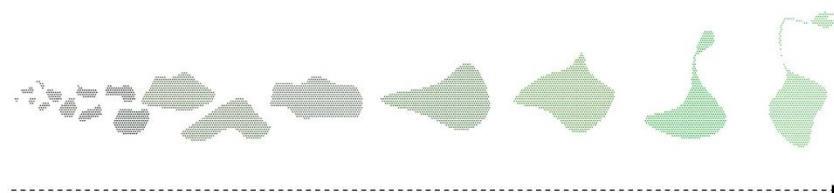
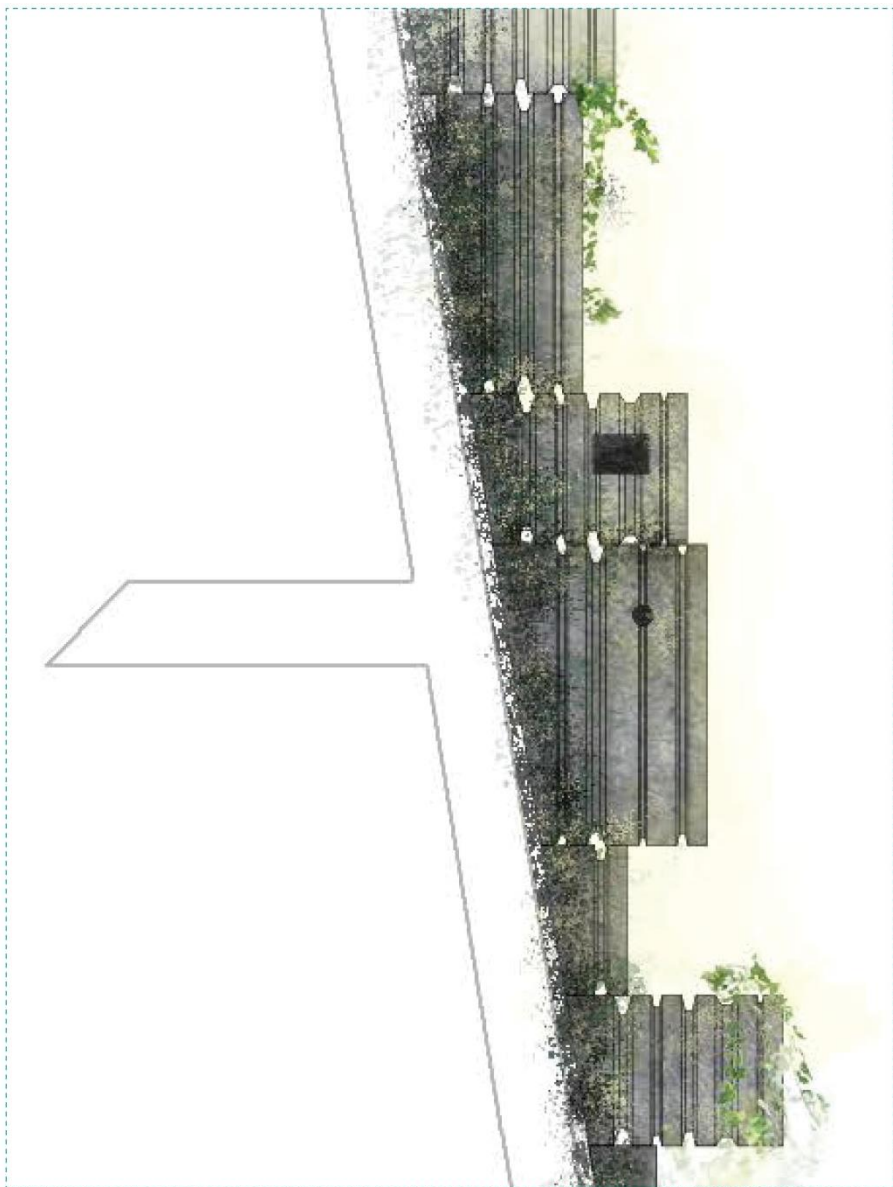




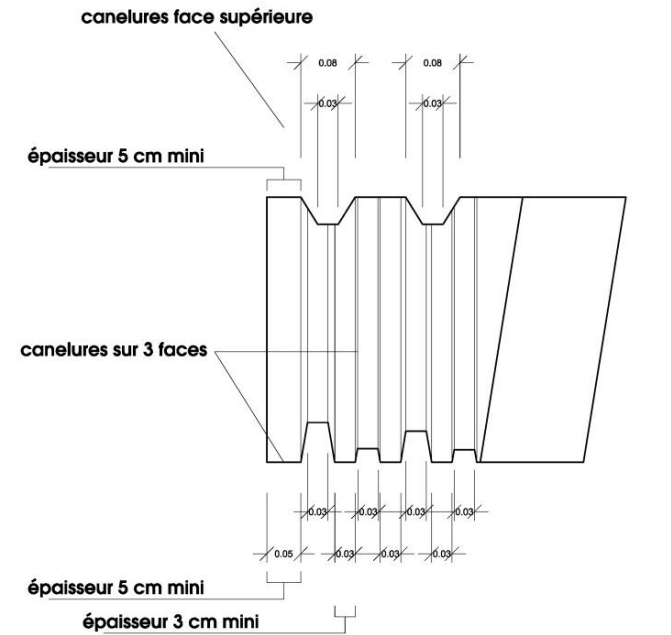
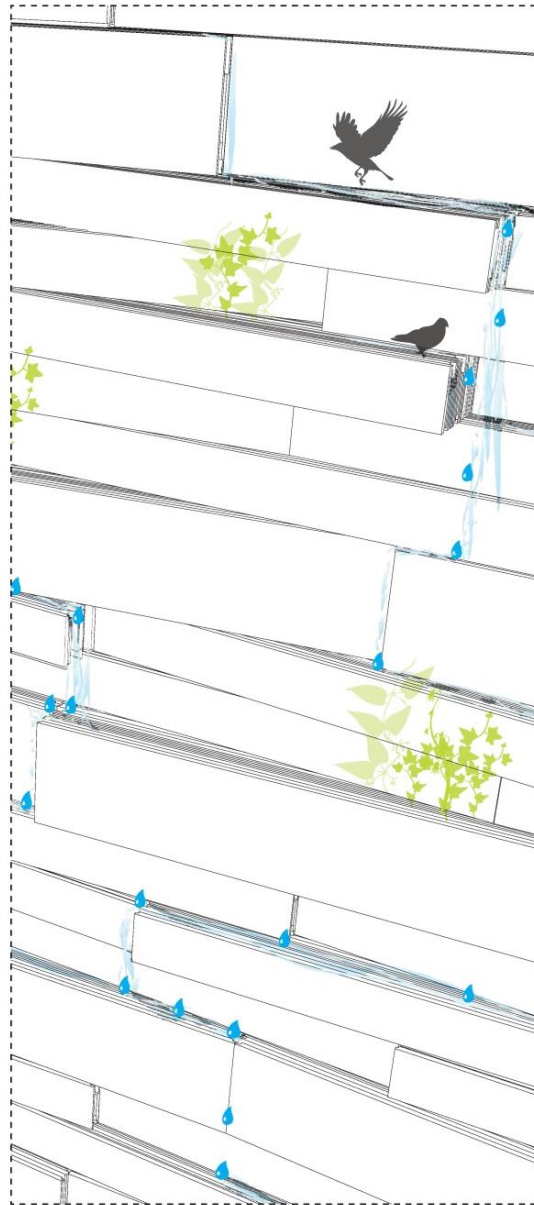
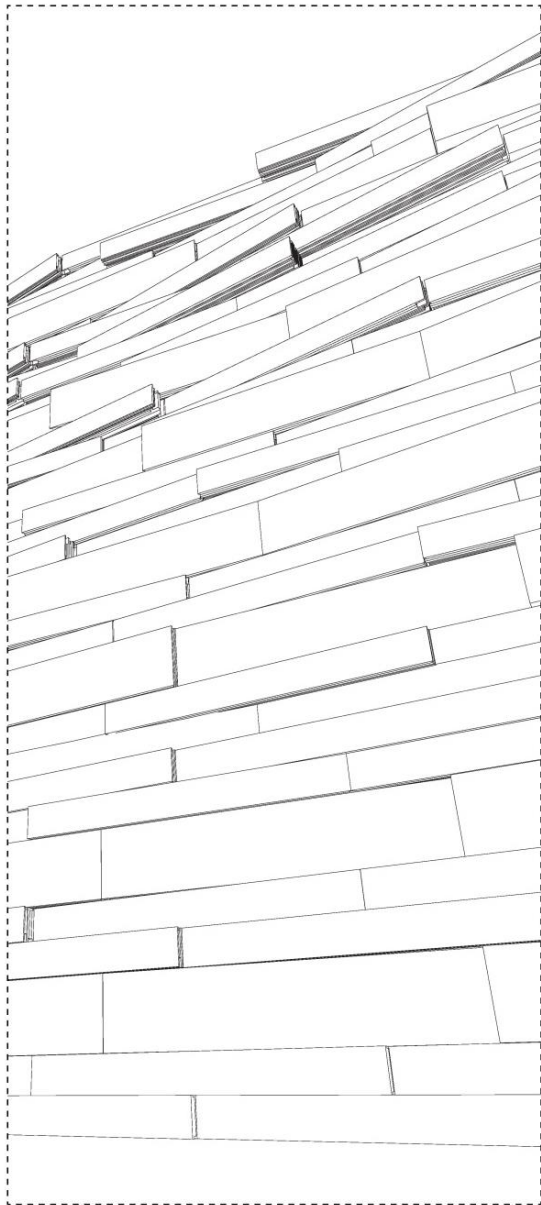
Un mur conçu pour évoluer dans le temps et accueillir une végétation de paroi



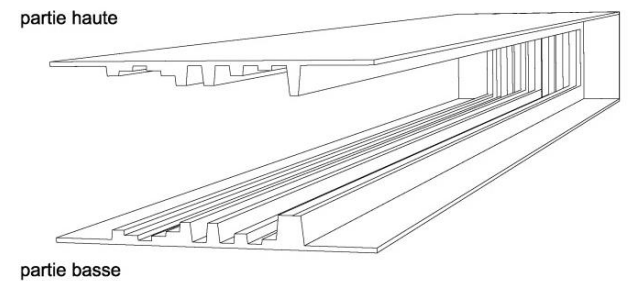
Altimétries et orientations composent un diagramme d'implantation possible



**Le développement d'une
végétation cryptique**



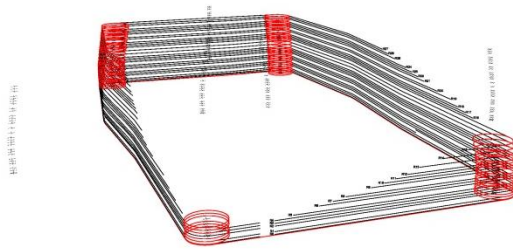
Détails des canelures



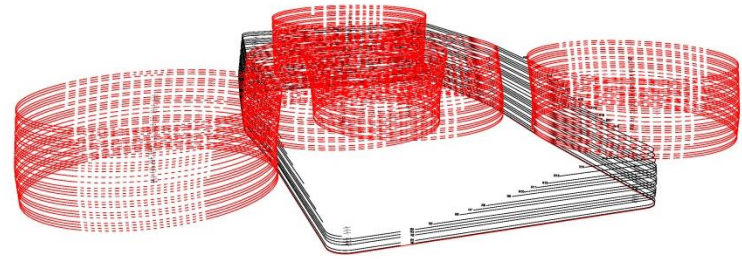
Principe du moule des canelures

La prise en compte du chemin de l'eau dans la géométrie des blocs

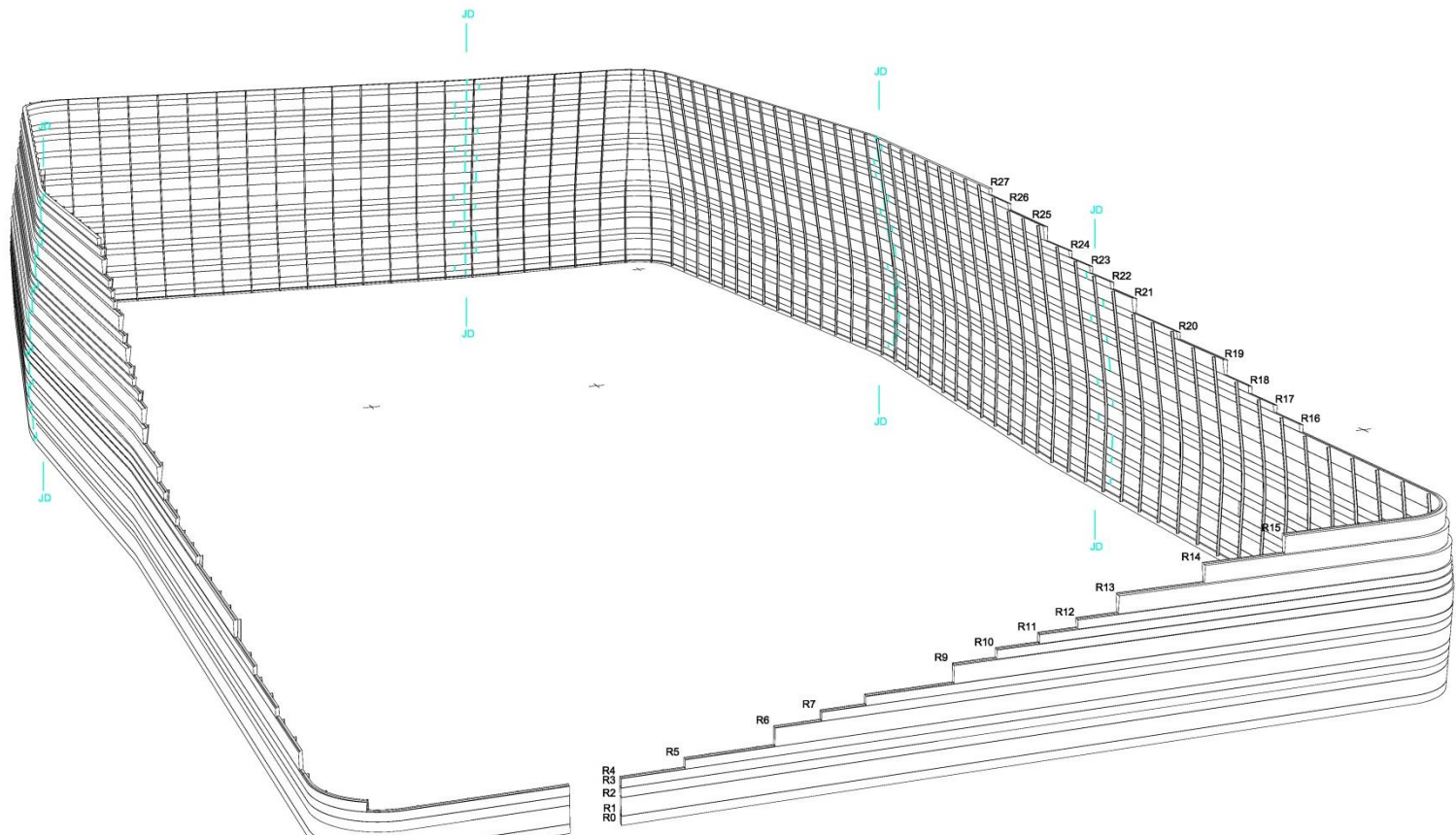
Génération des lits, chaque lit possède les mêmes rayons de courbure



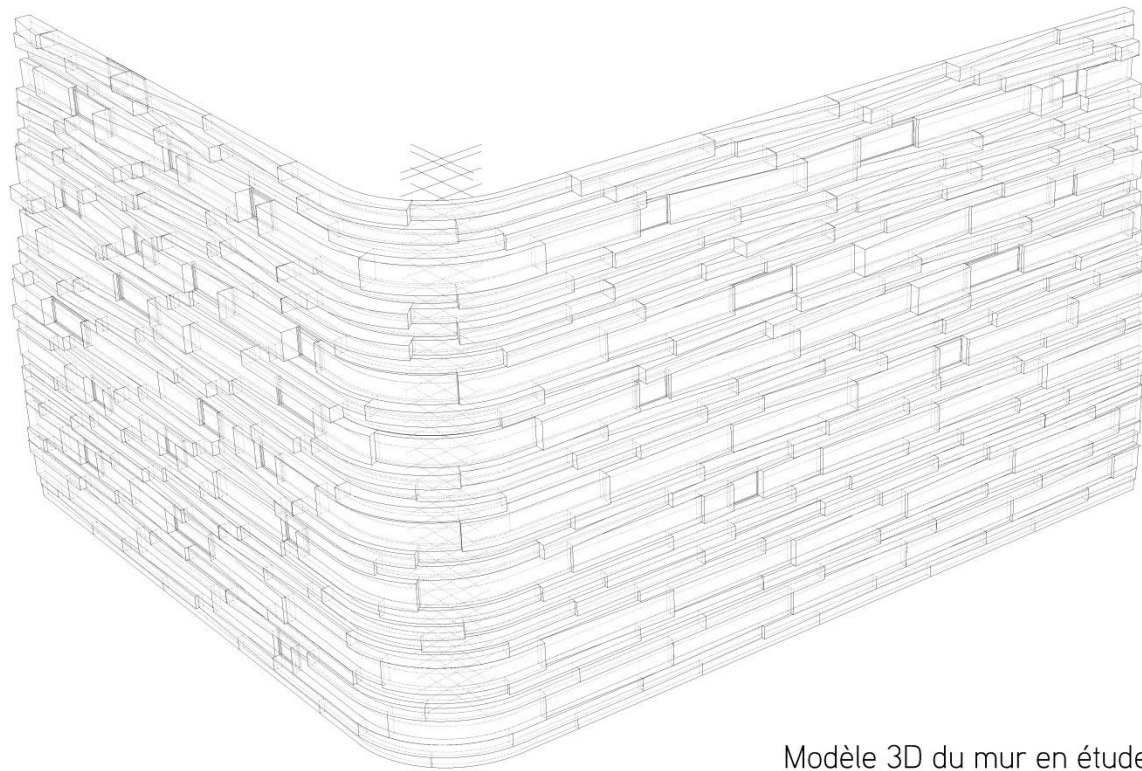
Rayons de 3m pour les 4 angles périphériques



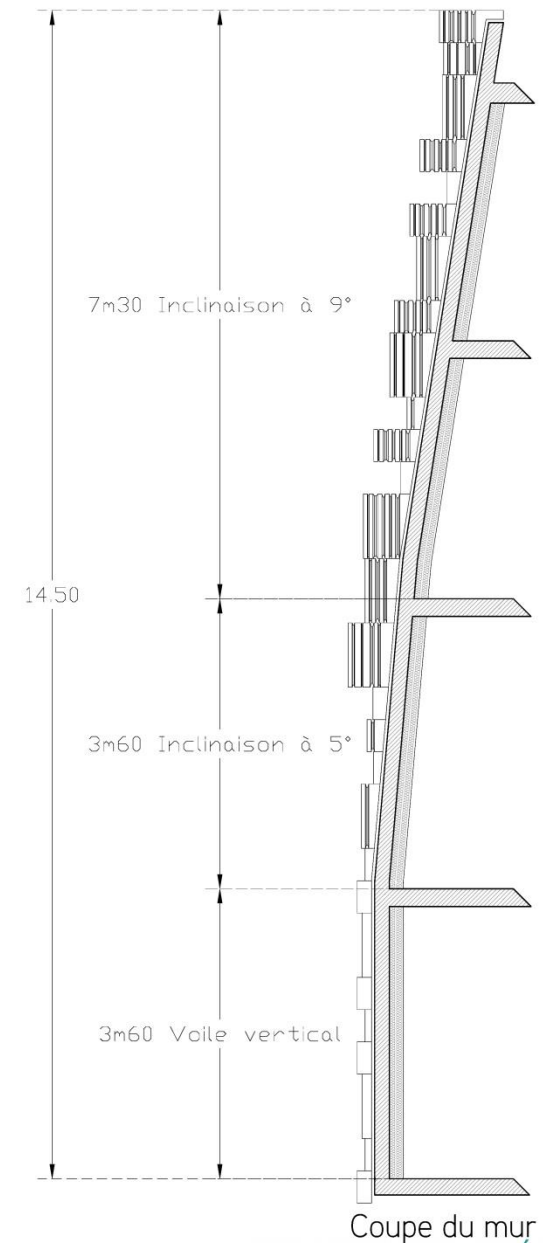
Rayons de 20 m pour les angles intérieurs



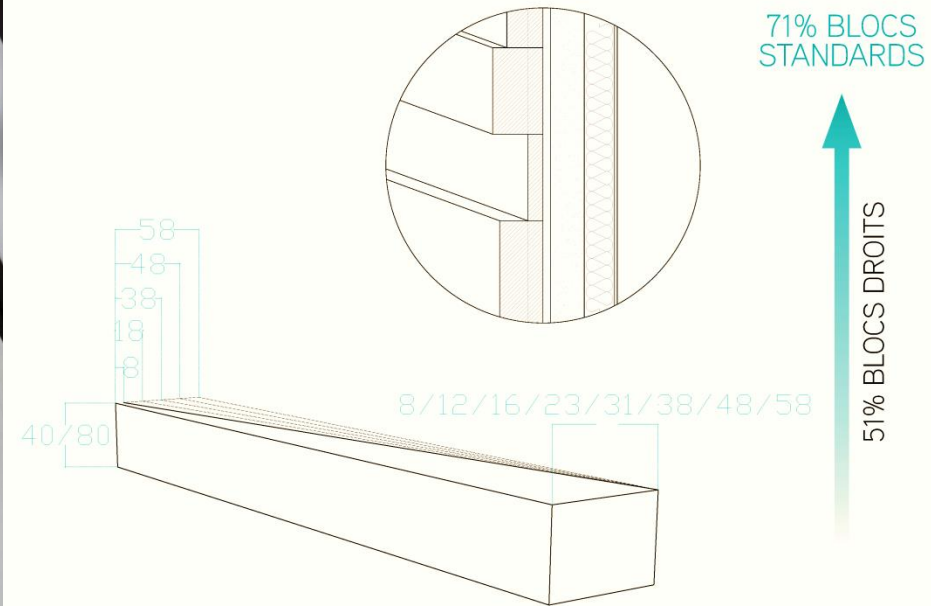
Le mur habité: répartition des 27 lits



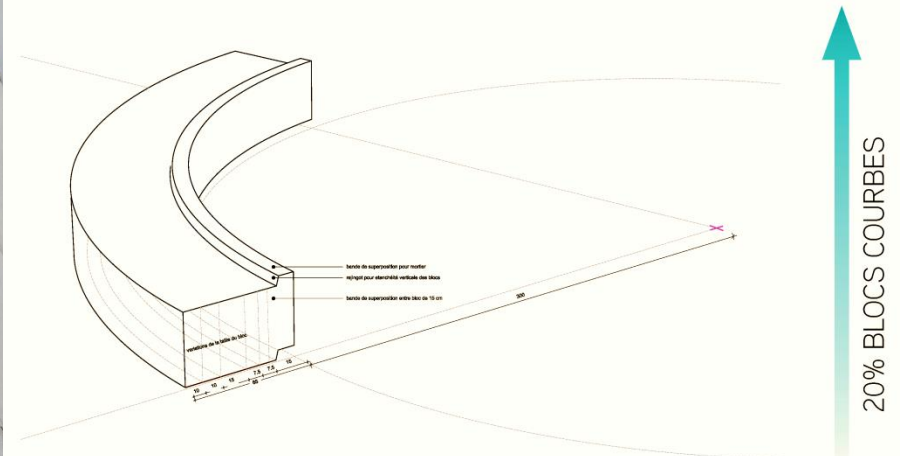
Modèle 3D du mur en étude
1436 Blocs dont 71% de blocs standards
et 29% de blocs spéciaux



Le mur habité: génération du modèle et coupe

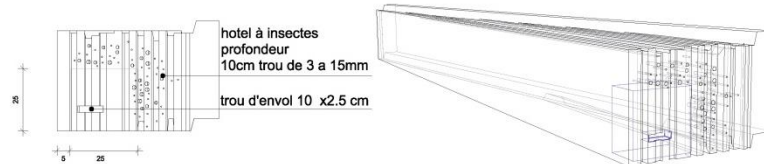


Les blocs standards : blocs droits



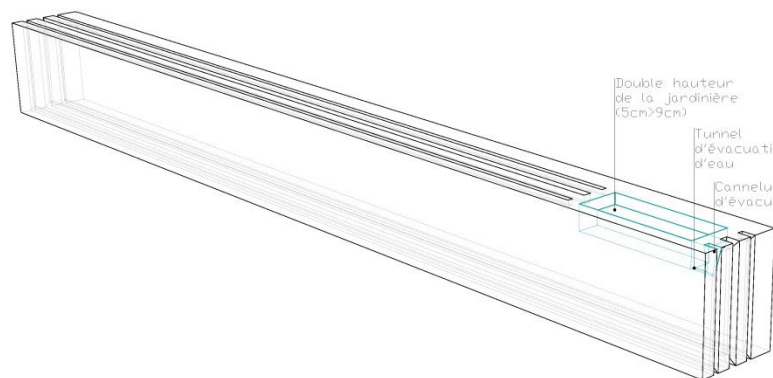
Les blocs standards : blocs courbes

1436 blocs: les blocs standards



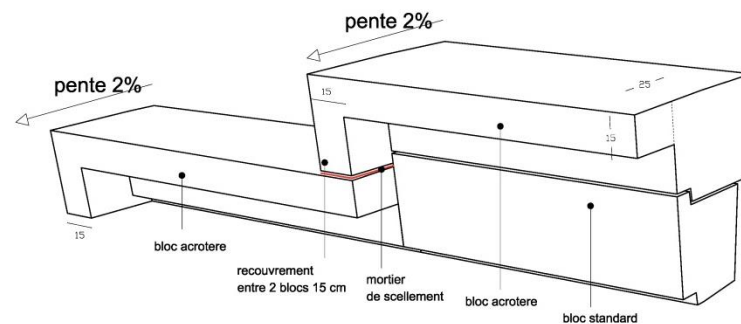
Les blocs spéciaux : blocs nichoirs

200 BLOCS NICHOKIRS
ET 40 BLOCS INSECTES



Les blocs spéciaux : blocs jardinières

47 BLOCS JARDINIÈRES



Les blocs spéciaux : blocs acrotères

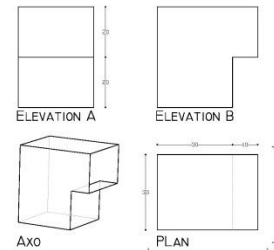
110 BLOCS ACROTÈRES

1436 blocs: les blocs spéciaux



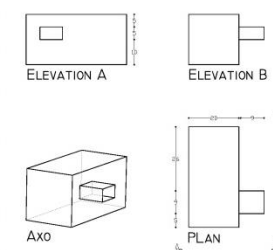
TYPE 5

58-0 FAUCON (H:80cm)



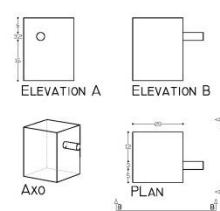
TYPE 1

58-1/2/3/5 MARTINET



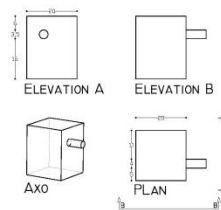
TYPE 4A

48-1 PASSEREAUX



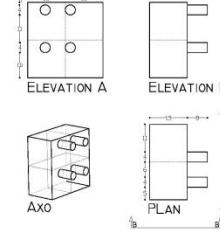
TYPE 4A

48-2 PASSEREAUX



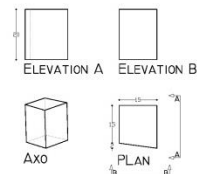
TYPE 4B

48-3 PASSEREAUX (H:80cm)



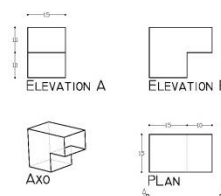
TYPE 6

48-4 58-4 38-0
HIRONDELLE



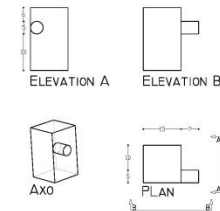
TYPE 2

38-2/3 ROUGE GORGE,
ROUGE QUEUE



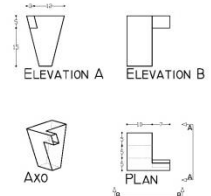
TYPE 3

31-1 CAVICOLE

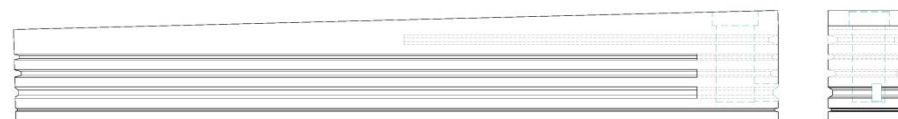
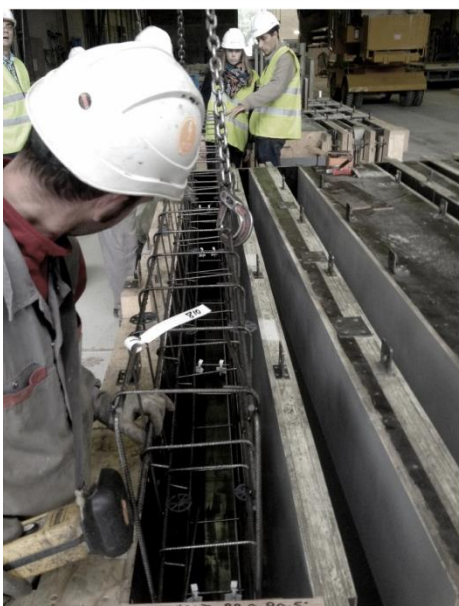


TYPE 3

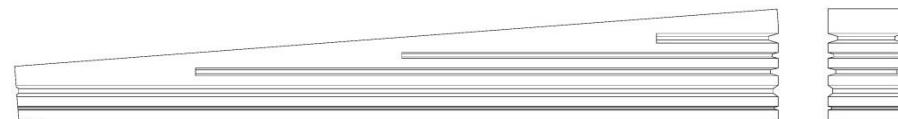
31-2 CAVICOLE



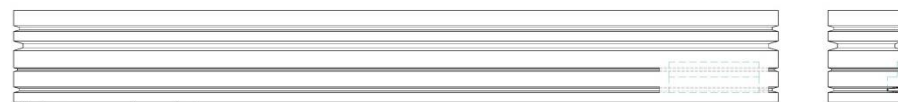
Les nichoirs intégrés dans les blocs



58-1 AVEC NICHOR MARTINET INTÉGRÉ



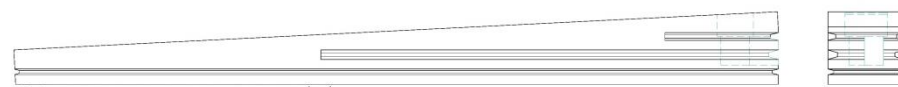
58-2



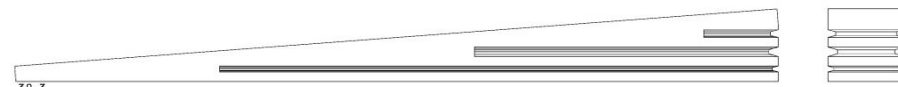
48-0 AVEC JARDINIÈRE INTÉGRÉE



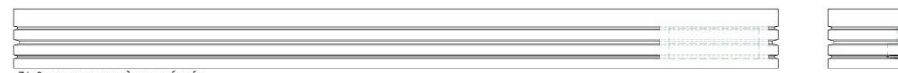
48-2 AVEC NICHOR PASSEREAUX INTÉGRÉ



38-2 AVEC NICHOR ROUGEGERGE ROUGEQUEUE INTÉGRÉ



38-3



31-0 AVEC JARDINIÈRE INTÉGRÉE

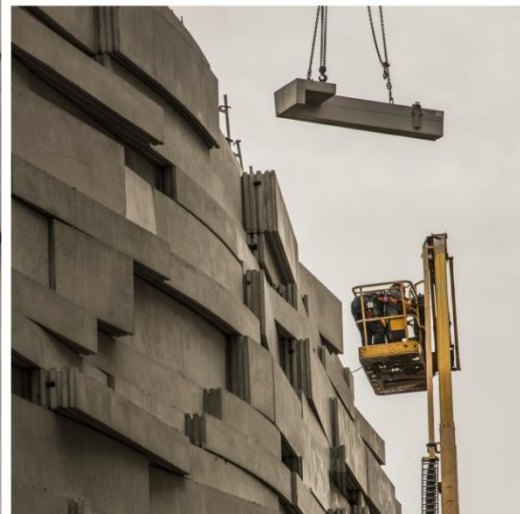


31-1 AVEC NICHOR CAVICOLE INTÉGRÉ



25-1

Fabrication des blocs



Pose des blocs

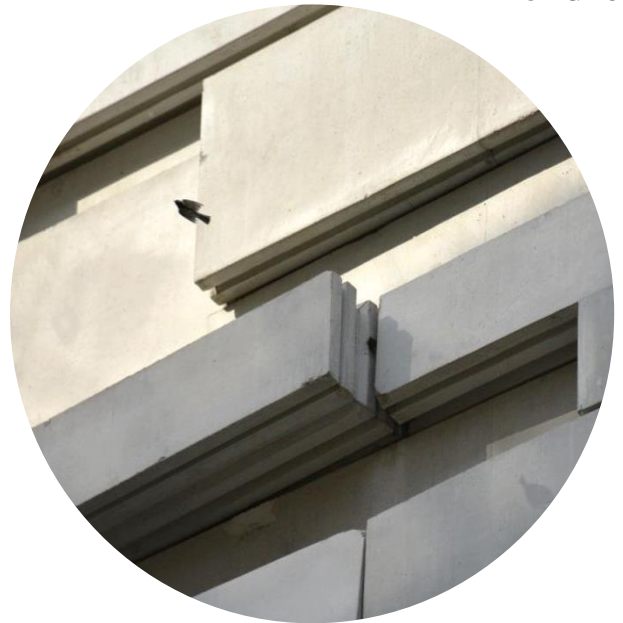




Iris



Mésange
charbonnière





Sedum



Saxifraga



Cymbalaria muralis





anthidie



auplopus



Tégénaire (Tegenraria)



**Araneus
diadematus**



cerceris



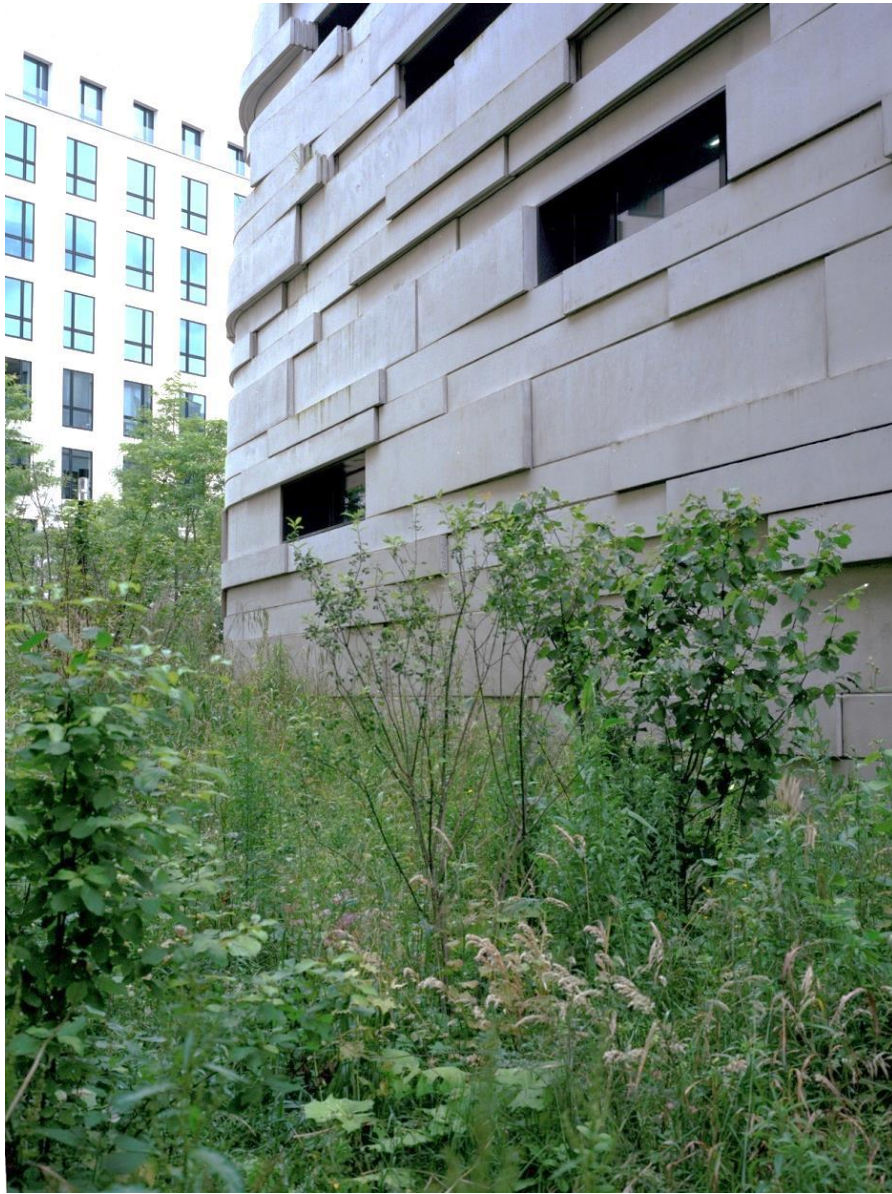
Petit gris (Helix aspersa)



bombus



Opilion



La végétation au pied du bâtiment

Façade sud



Façade Ouest



