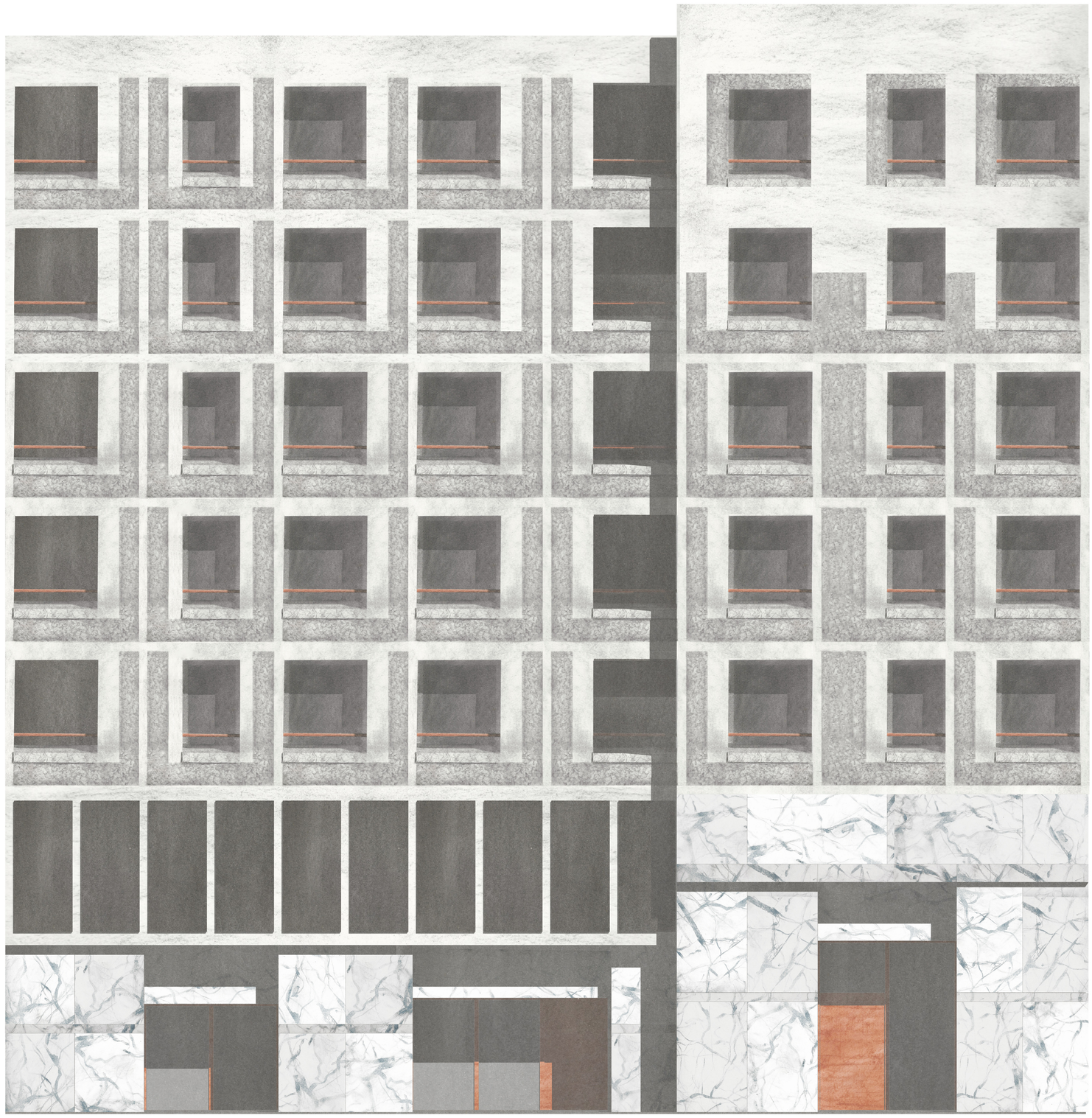
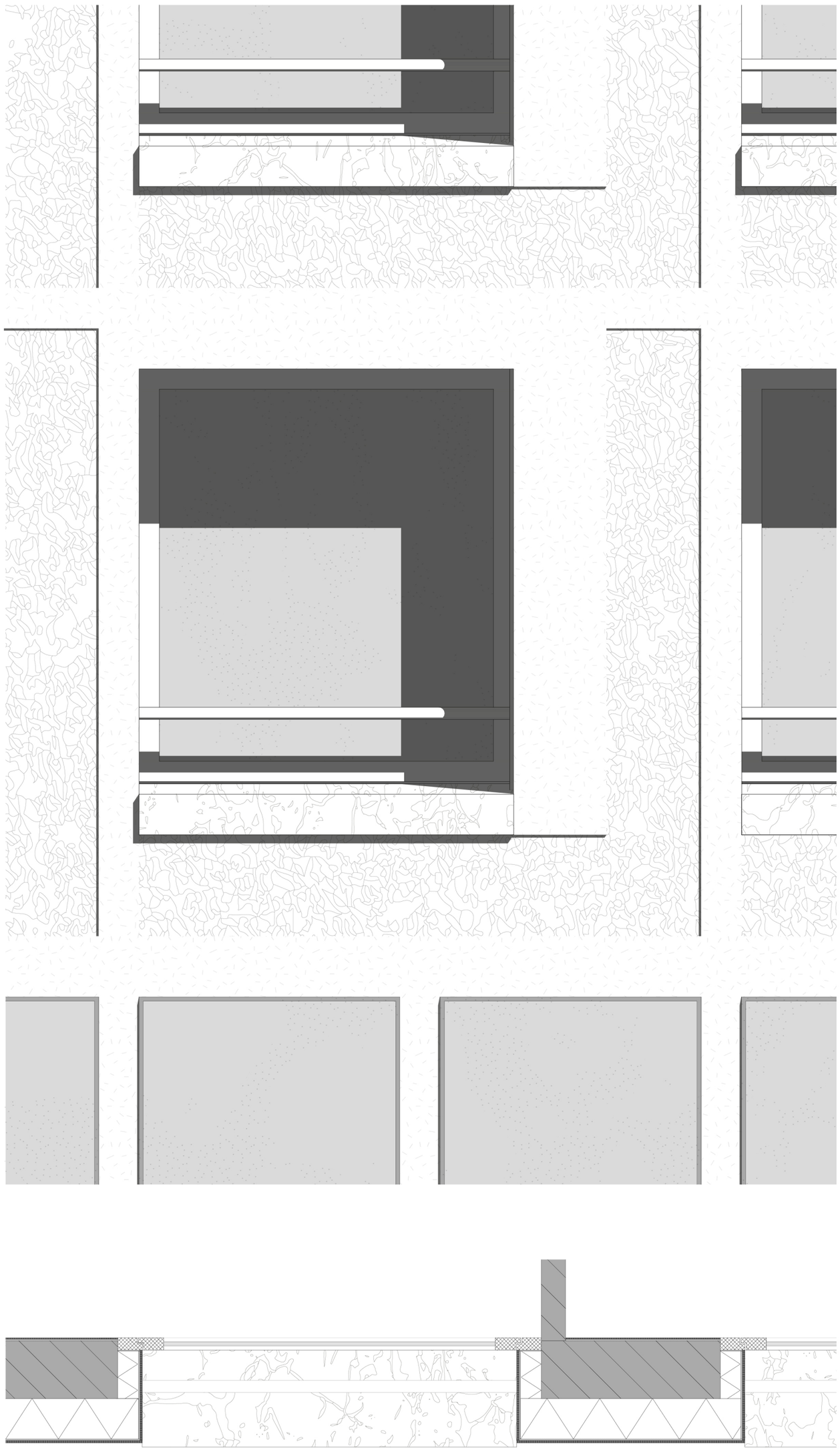
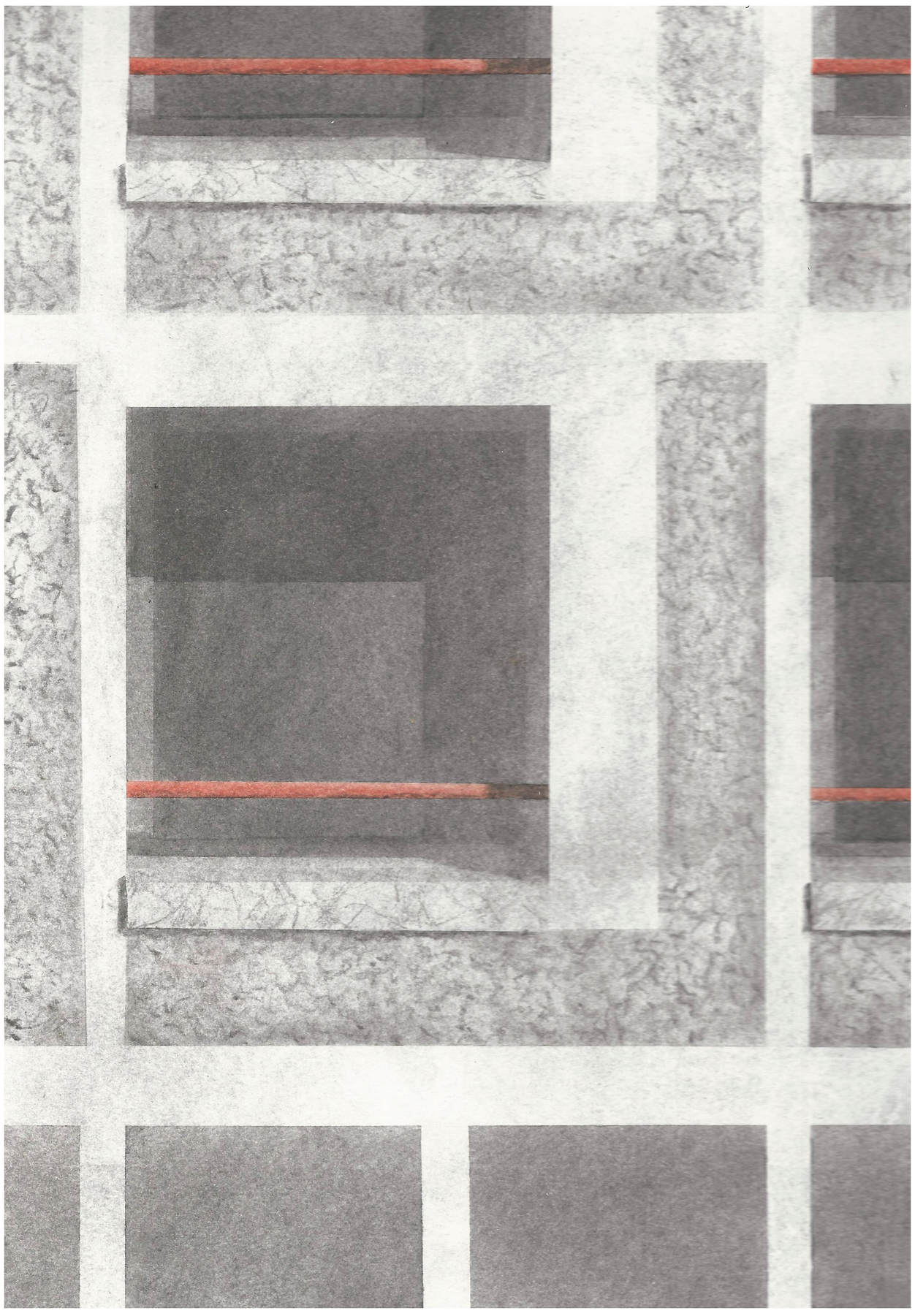
Mark van Wasbeek - Tektoniek
Gevel Schaal 1:50



Mark van Wasbeek - Tektoniek
Gevel Schaal 1:200 + Interieur



Mark van Wasbeek - Tektoniek
Fragment Gevel Schaal 1:20



Mark van Wasbeek - Tektoniek
Fragment Gevel Schaal 1:20

Mark van Wasbeek

THE TECTONIC FRAMEWORK

a 'research by design' flow chart

Studio Sektorask - The Tectonic Framework

START

Setting up the floor plan

In this studio the research focussed on the design of a facade situated on the Van Eycklei in Antwerp. There were a couple of parameters for this design, first of all that it should follow the existing building rhythm, secondly that it should be made of the finished in stucco as the main material. The third input were the plans of the apartments lying behind this facade. This led in the end to two questions to be answered: 'How to translate the concept of a tectonic facade to a specifically stucco facade?' and 'How to fit this idea with the layout of the apartments and in the context of the street?'

Testing window proportions

Heavy plinth vs. lightness

Testing a plinth detail

Solid elements in plinth. Free framework above

Testing different window formats

Testing a mix of heavy and light facade

Medium facade (hybrid of light and heavy)

Heavy frame framework lacking an heavy plinth elements

THE PROBLEM SPACE

THE SOLUTION SPACE

Designing from inside out, leaving the interior alone with mark

Light or balcony element indicating 2 types

Following the rythm of neighbouring building

Zooming out to the scale of the street

Dividing the facade in 2 parts, articulating the entrances

Different kinds of window within the facade

Analysis of Basic Forms and Architectural Ideas of the facade.

Combination of the frame as mass behind, not finding balance yet

Window opening and the pattern of openings

Creating a balance in plot form but also in the facade

Testing different sizes of the holes, with rough or straight edges. Searching for the window opening for the facade

Introducing the metal window sill, in dialogue with the plaster

Lifting a part of the facade above to form a third layer in the facade

Making a horizontal railing has more tectonic logic, keeping the glass forrmer railing

Using the plaster texture to make a mass tectonic interpretation of the former facade

Swaping the deep window set back

Testing in section

Definition of the frame works building blocks

Working out the concept of the interior walls

Finished design

TED'A

The design of this house in Menorca by Ted'A show how tectonics in a facade can be translated in a way that it feels like one big mass, but also gently reacts to neighbouring buildings.

Looking at the constructive logic of timber frame houses. To find an interesting tectonic framework that bends naturally on the plinth.

FRAMEWORK

Applying the plinth on different buildings

Applying thicker frame logic

Applying thinner frame logic

Testing the plinth

Difficult to make an logic framework that bends with a plinth, inside and outside

TACTILE FRAMEWORK VS COMPREHENSIVE MASS

Using the idea of Gottfried Semper that tectonics can be the use of a tactile framework and stereotomy as a comprehensive mass. Combining the two ideas in one facade

Gottfried Semper, Der Stil in den technischen und tektonischen Künsten oder praktische Ästhetik, 1860-63

TEXTURE

The Yellow House by Diller Scofidio is a good example of a building as an comprehensive mass, that uses difference in texture to make a definition to the facade

ASNAGO e VENDER

The facade of the Palzzo Venasca in Milan, has a nice difference between ground and upper part. Entriched by different window depth.

LEGEND

- the main route
- scale-switch
- reference input
- dead end
- timeline
- Re-used ideas
- 2 Key moments (Iterative loop)

Final project description (Dutch):

Gottfried Semper beschreef het tektonische als het gebruik van stame staafvormige delen tot een samenhangend systeem. In deze gevel, uitgewerkt in stucwerk, vormen kaders het systeem dat een eenheid vormt. Dit "lichte" frame komt tot uitdrukking in tastuurverschil binnen het stucwerk. Het raamwerk gaat een contradictior spel aan met de verder zware, elementaire gevel. Met diepe negges en minimalistische detaillering. De tegenstelling komt ook terug in het nuwe en poreuze van het stucwerk vs. de solide gepolijste marmeren plint waar het raamwerk op landt.