



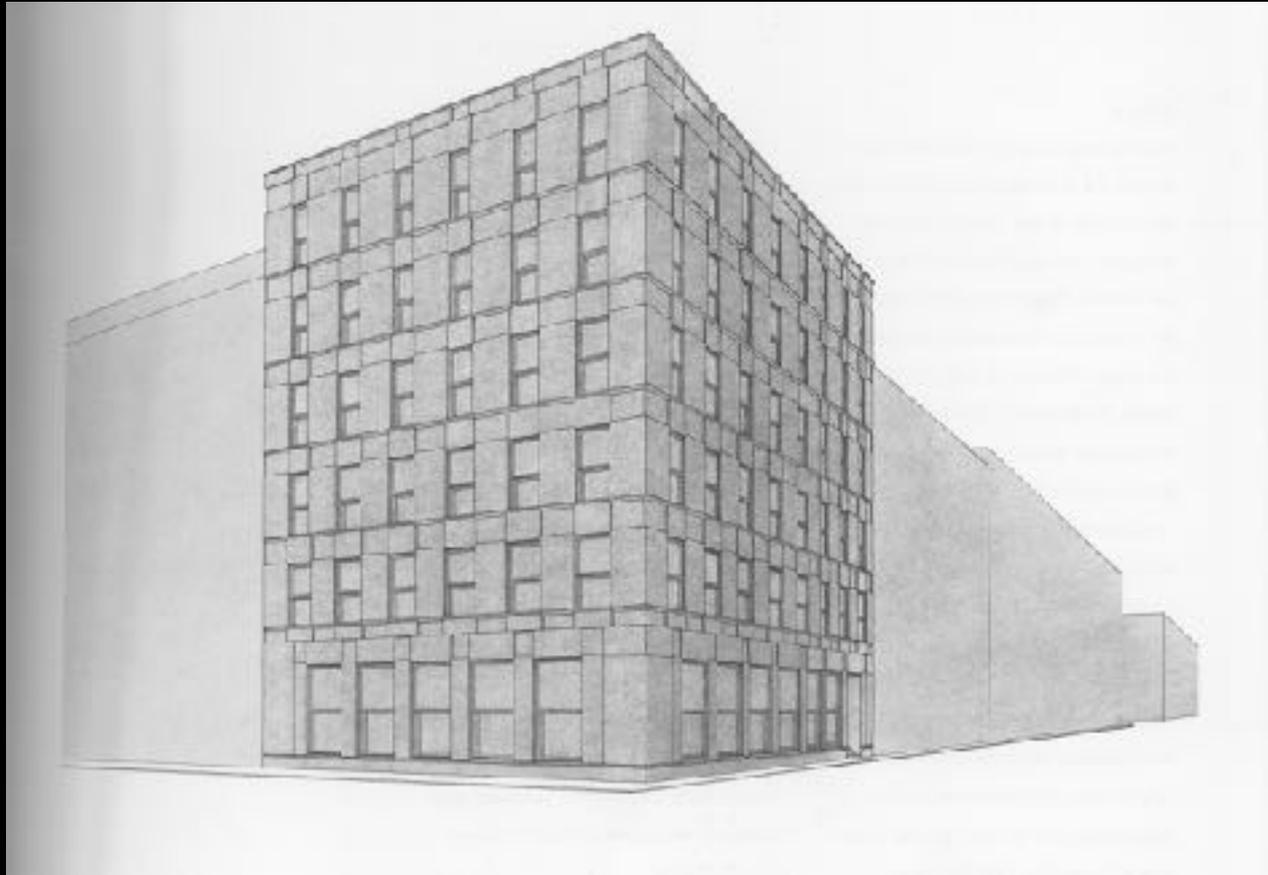
La Sapienza Università di Roma  
Laboratorio di Progettazione Tecnologica  
dell'architettura  
a.a. 2018.19  
Prof. Spartaco Paris

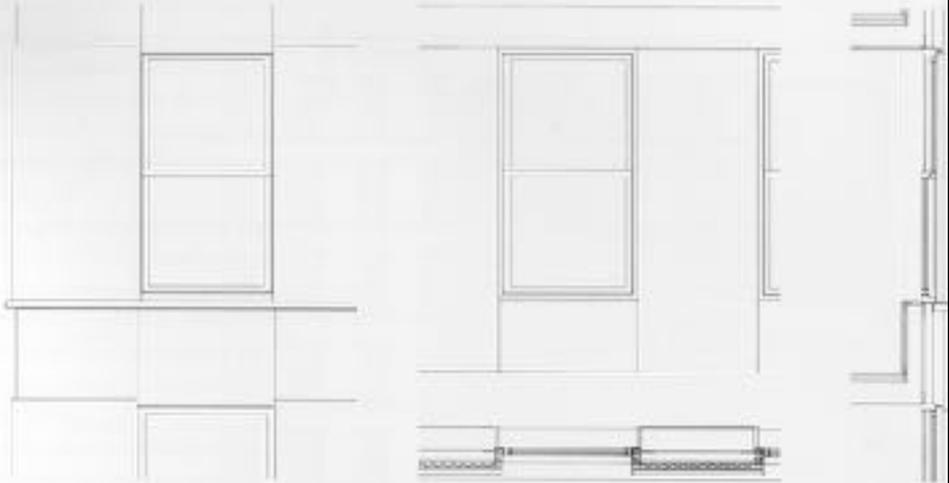
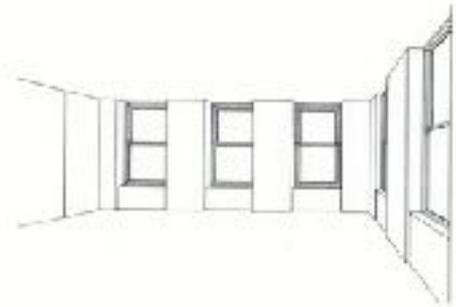
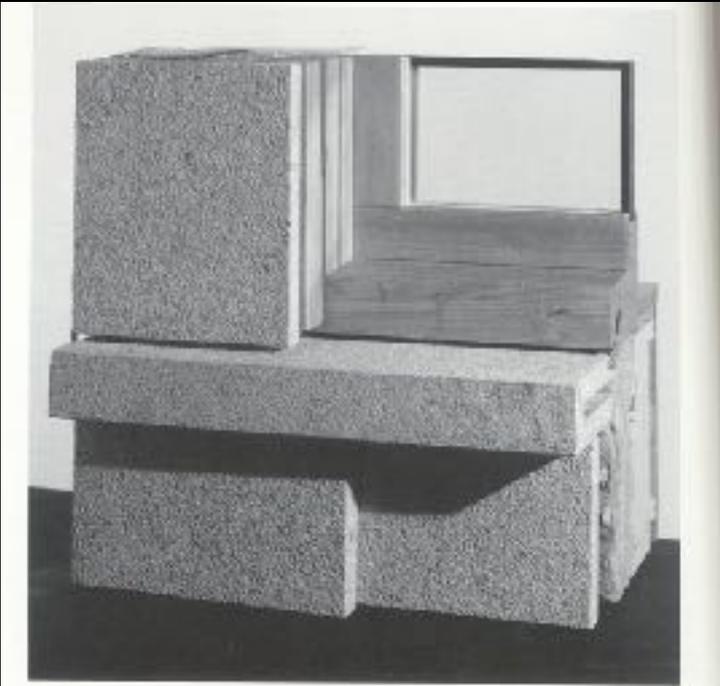
Nodi tettonico costruttivi: la facciata



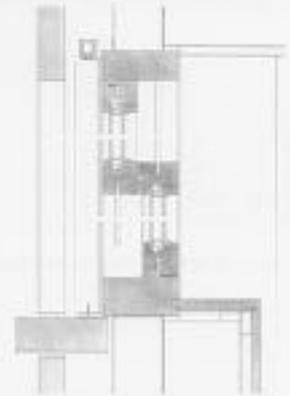
Temi:

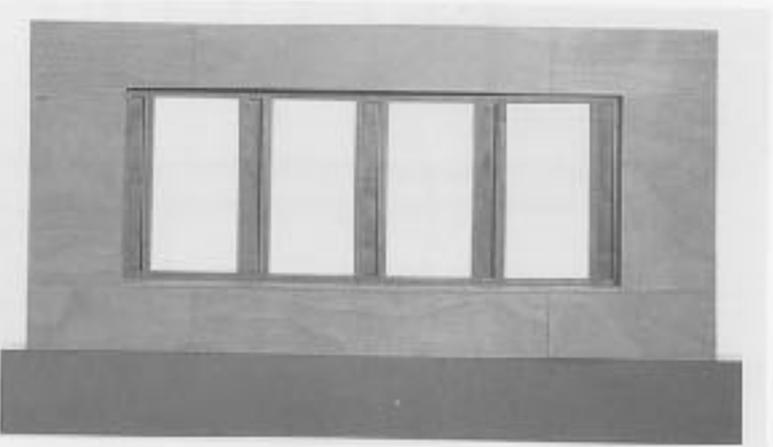
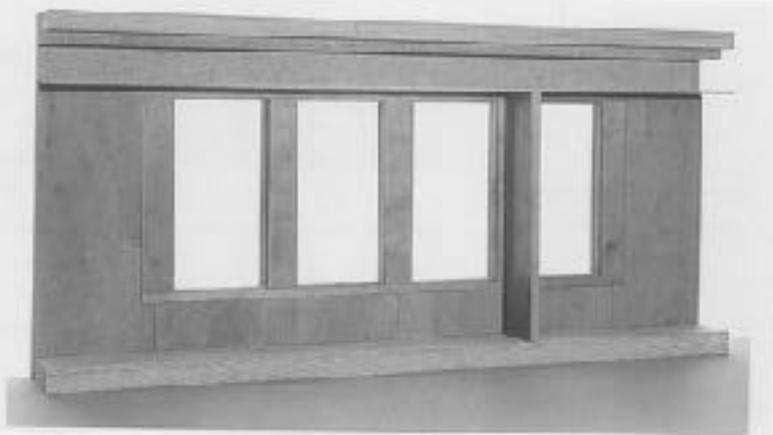
Facciate: Finestra



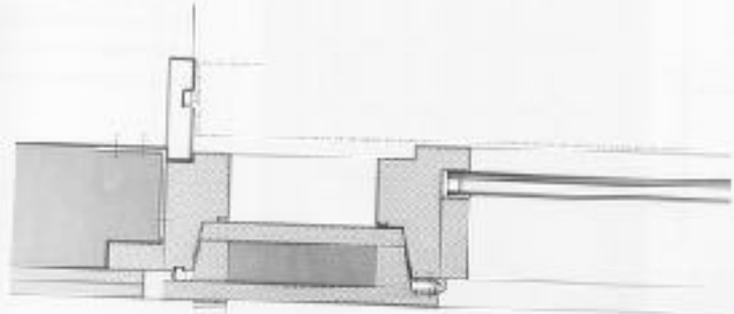


- Materiali:**
- cemento maglierato Tacksteinwerke, 50 cm
  - Eisenblech, 100, 12 mm
  - Wandbohrerpaar, 100 mm
  - Tüpfelblech Gitter, 200 mm
  - Winkelblech in Eisenblechstreifen, mit Eisenbolzen, 20 mm
- Forme:**
- Schweißnahtunterstützte Laste, 40 mm
  - Eisenbolzen, verschleißfester Stahl

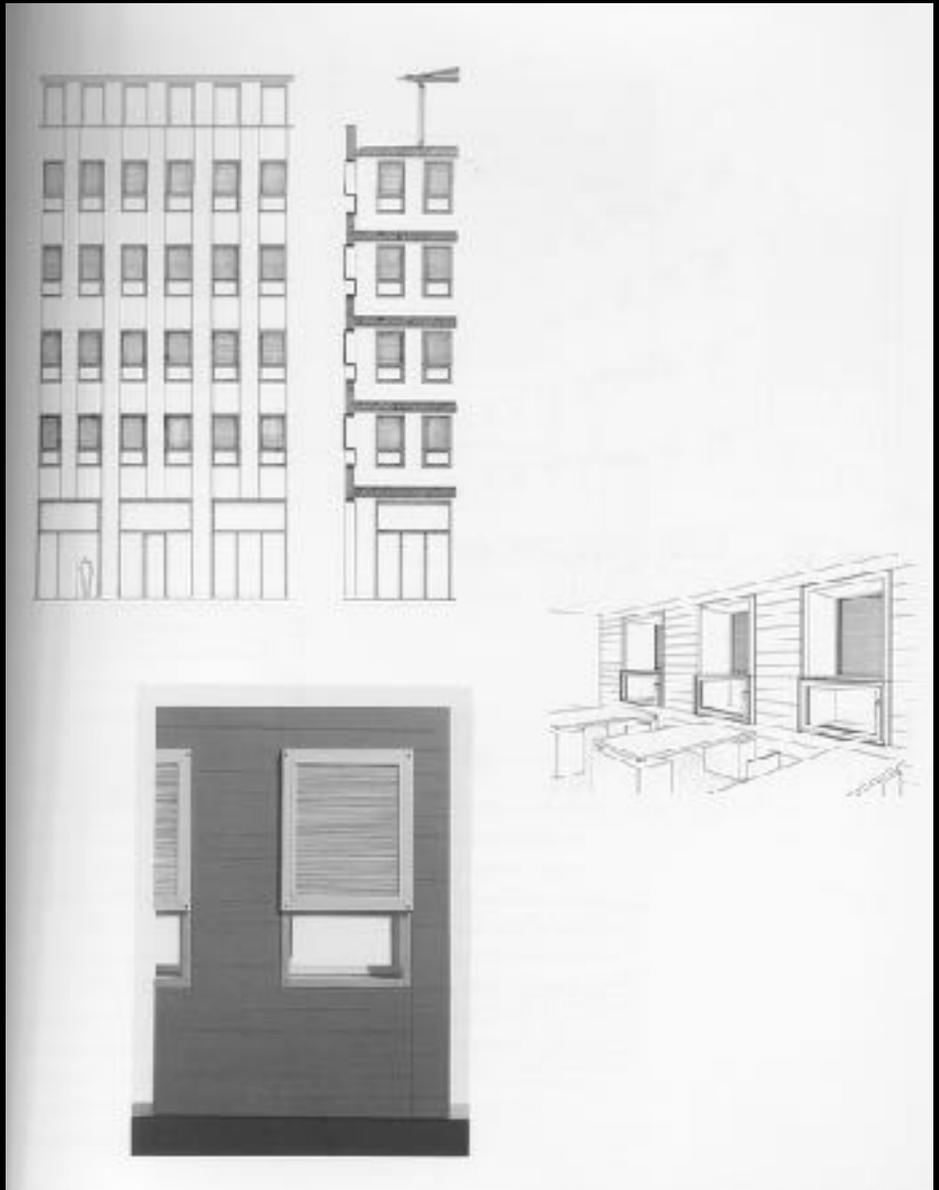
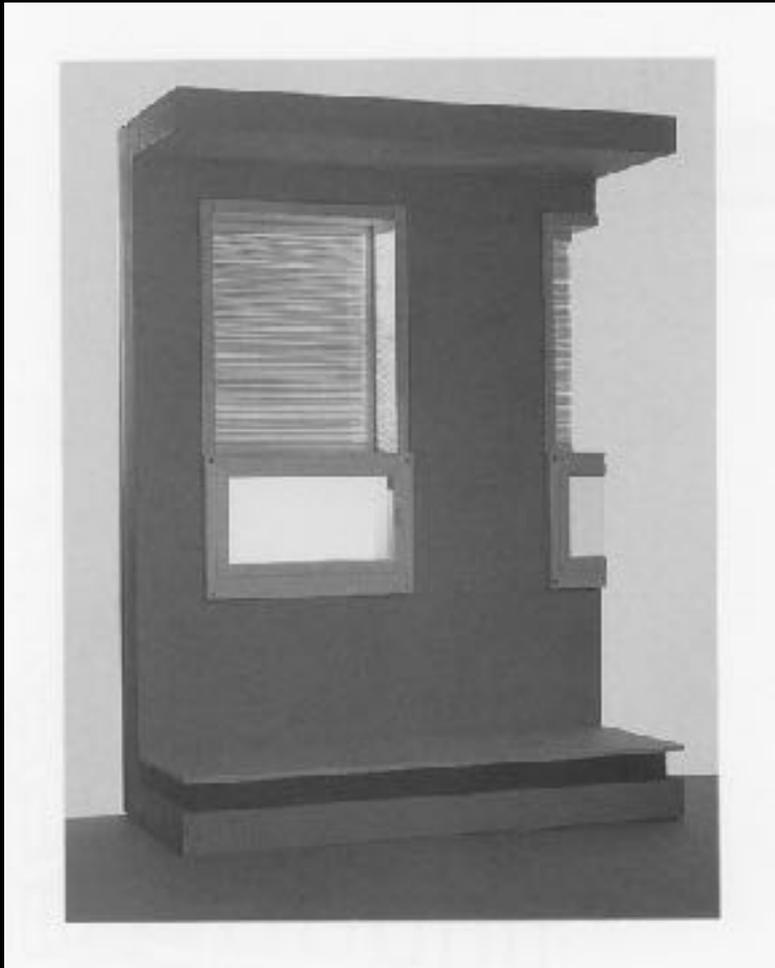


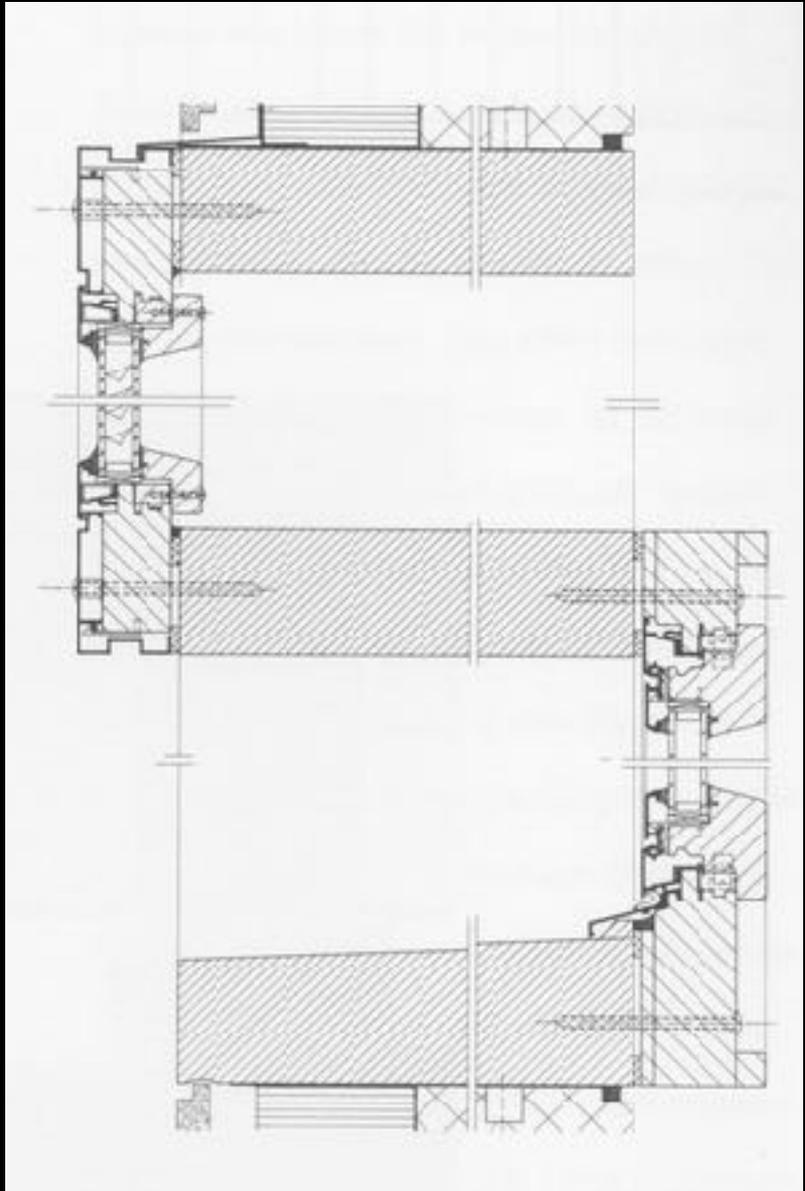
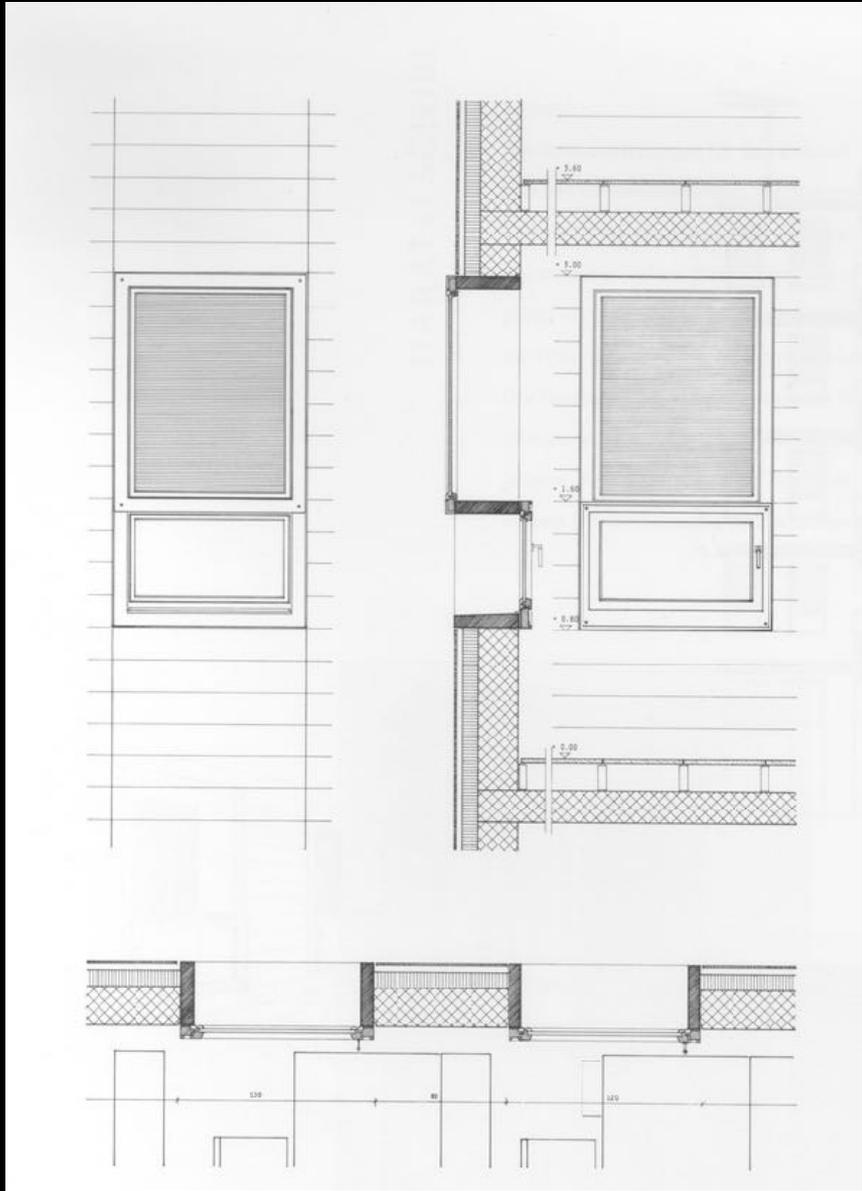


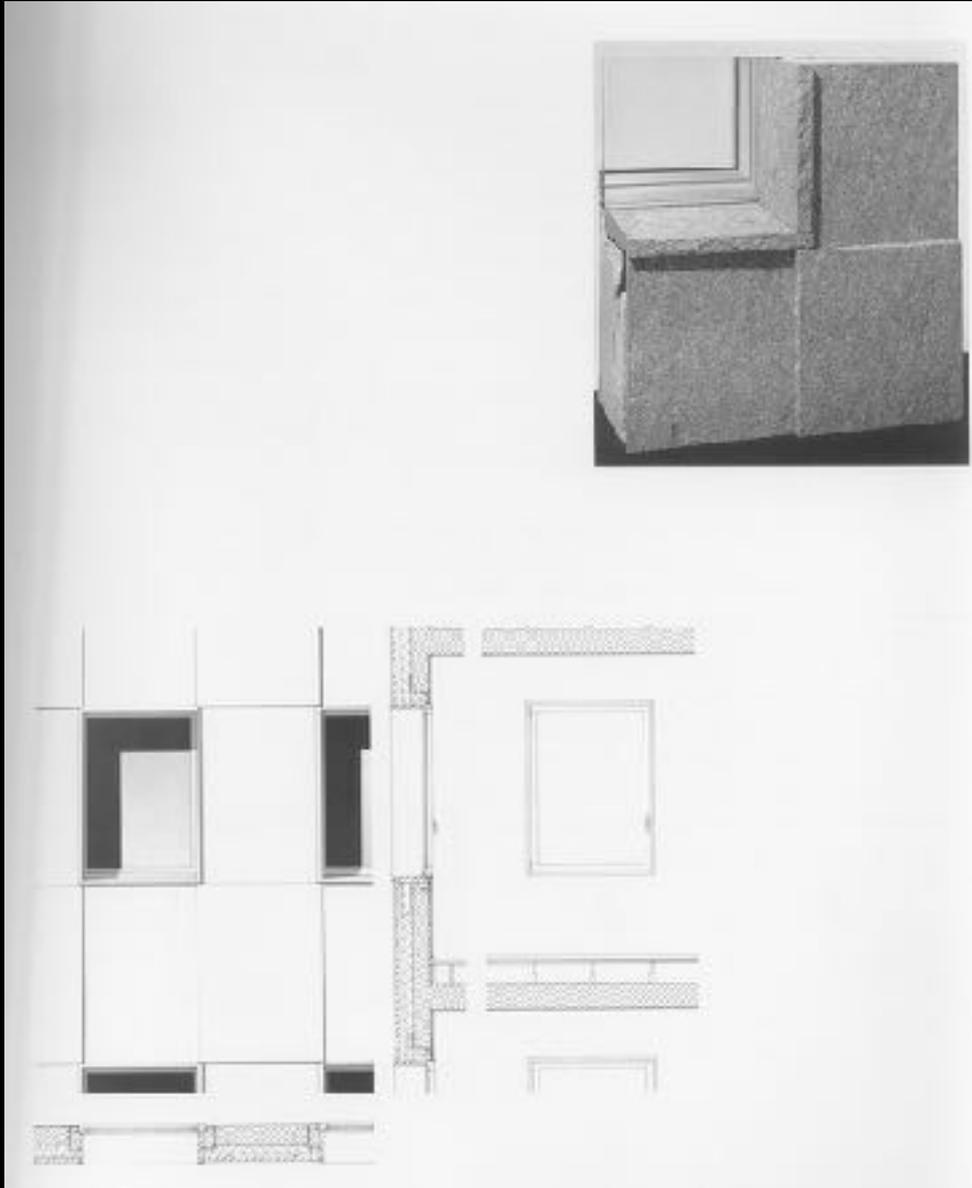
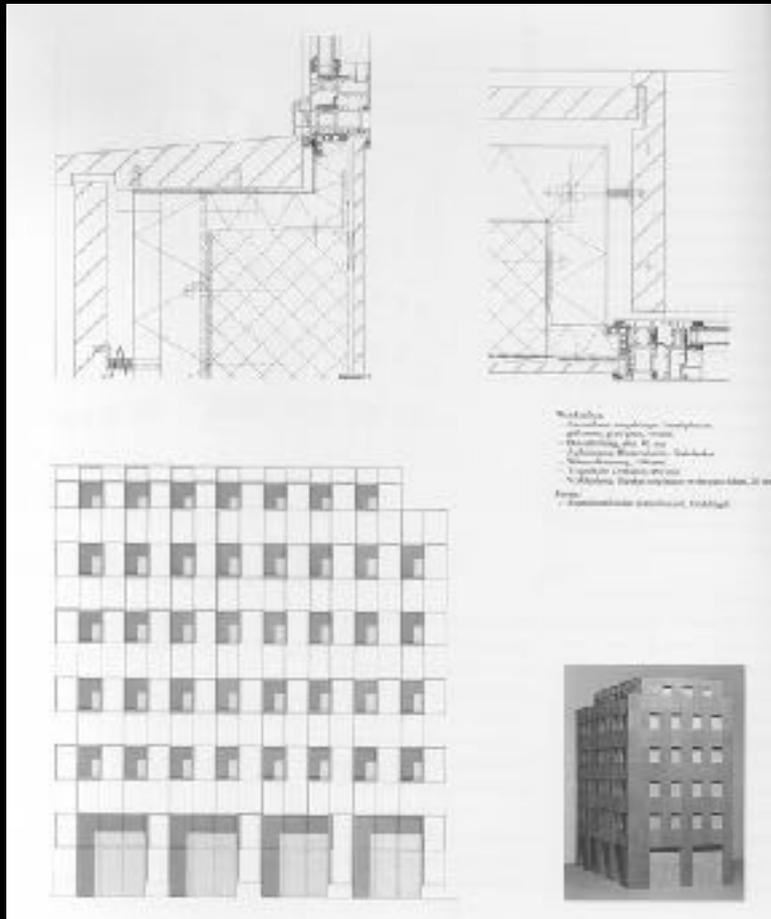
**Verklebung:**  
 • Anstrich: Klebefarbe, Epoxid-Verbindend  
 dickerweise 40 mm  
 • Klebefuge: Klebefuge, 100 mm  
**Einbauelemente:**  
 • Klebefuge: Klebefuge, wie oben, 100 mm  
**Einbauelemente:**  
 • Klebefuge: Klebefuge, wie oben, 100 mm  
 • Klebefuge: Klebefuge, wie oben, 100 mm  
 • Klebefuge: Klebefuge, wie oben, 100 mm  
 • Klebefuge: Klebefuge, wie oben, 100 mm

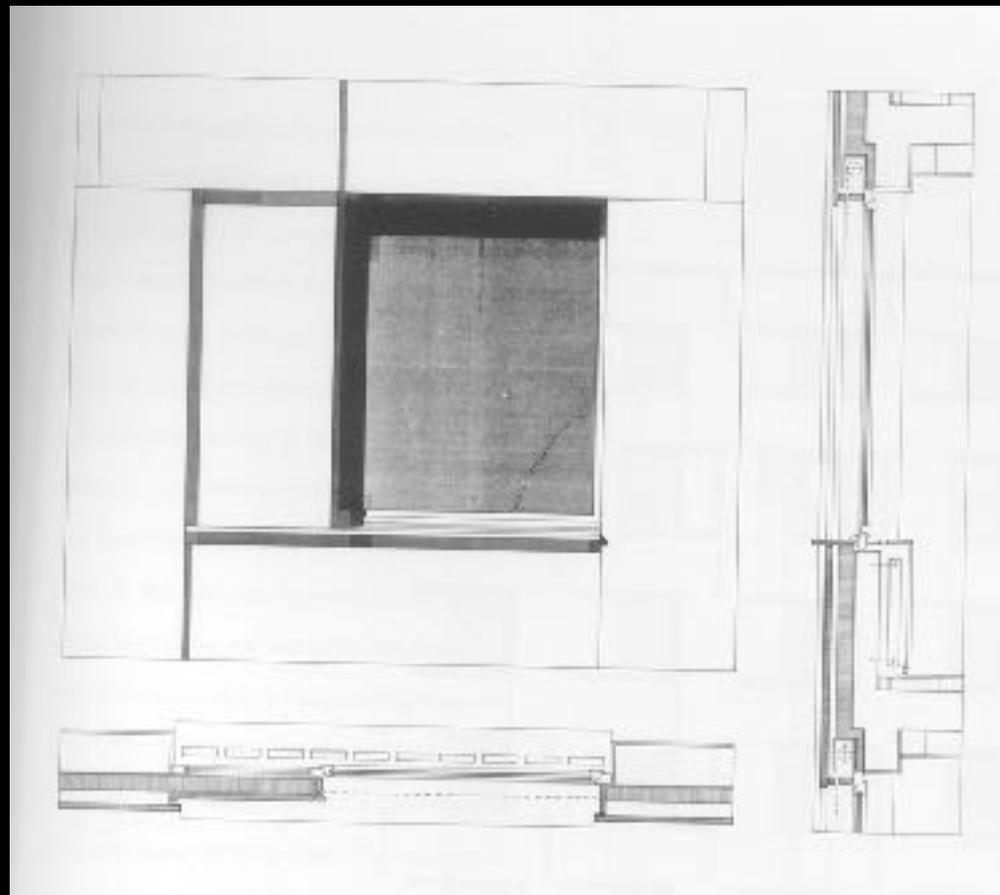
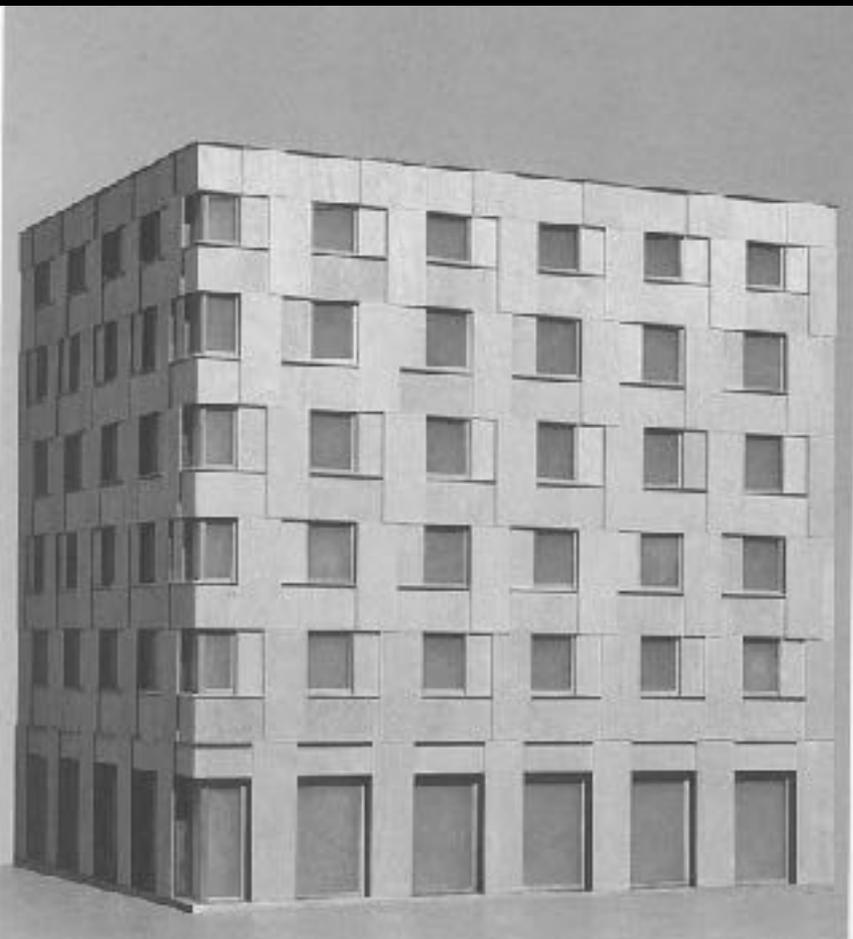


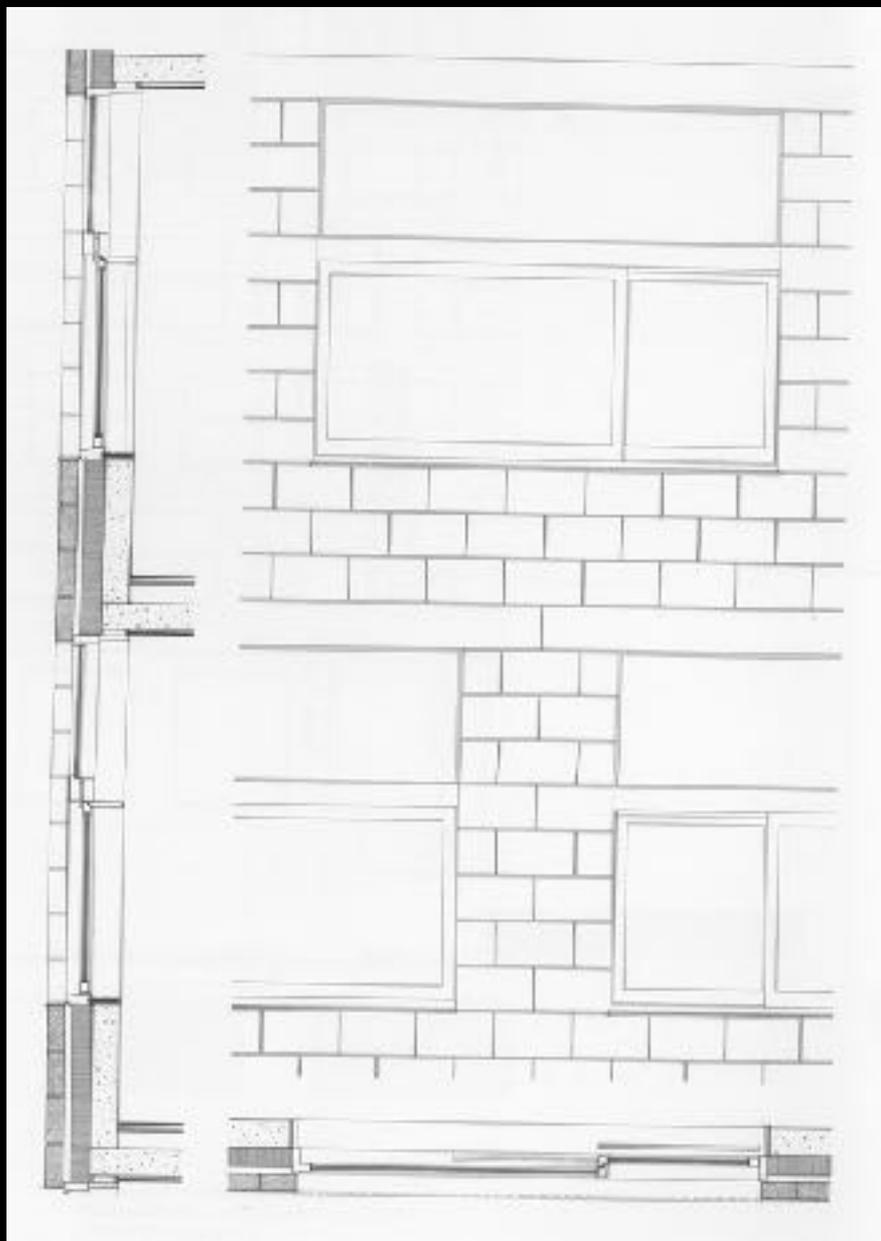
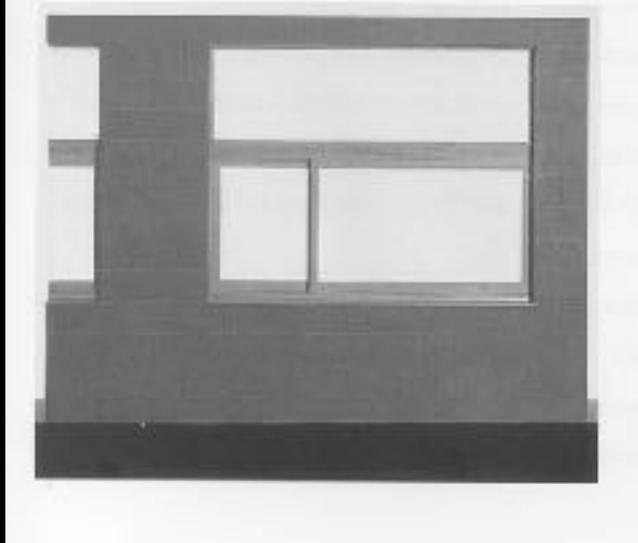
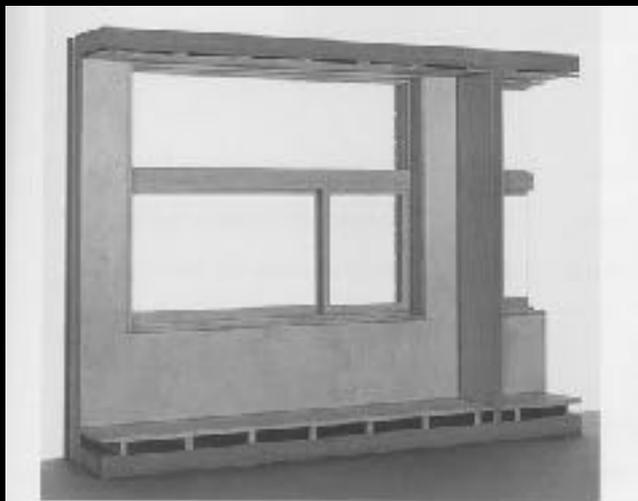


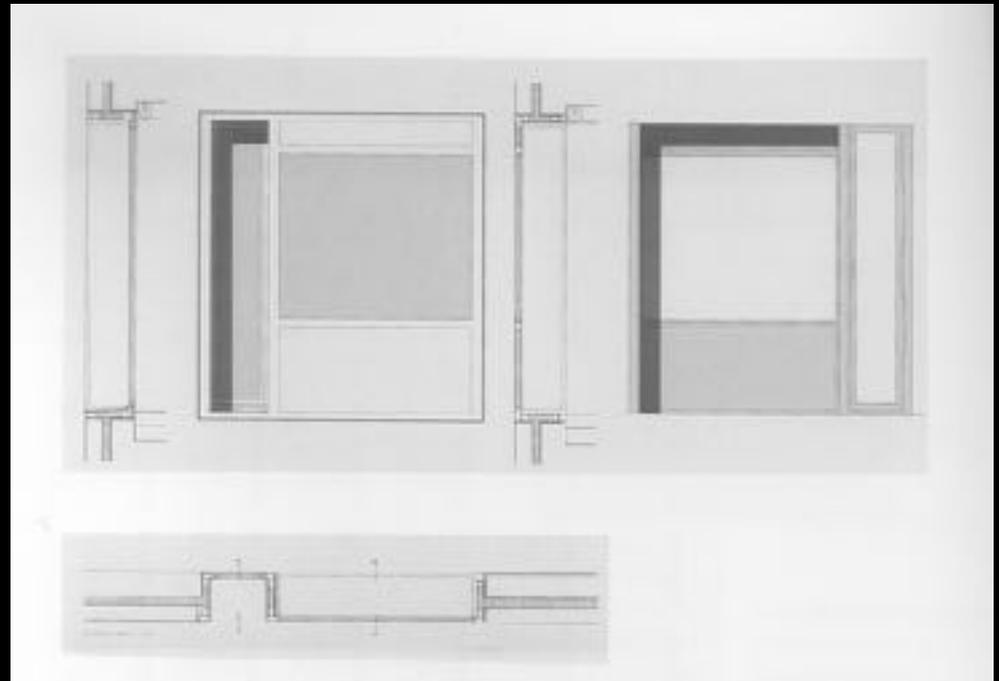
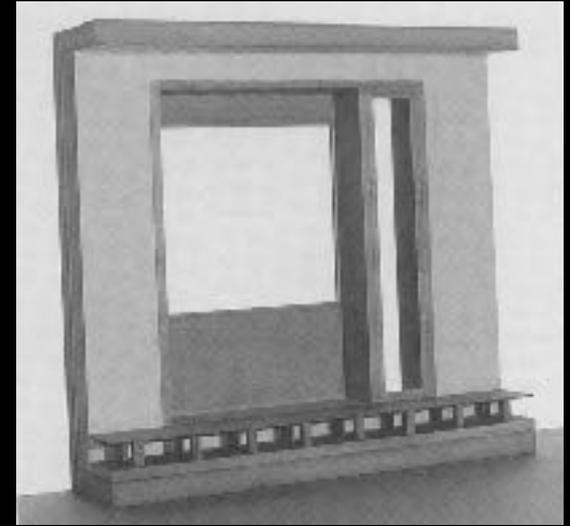
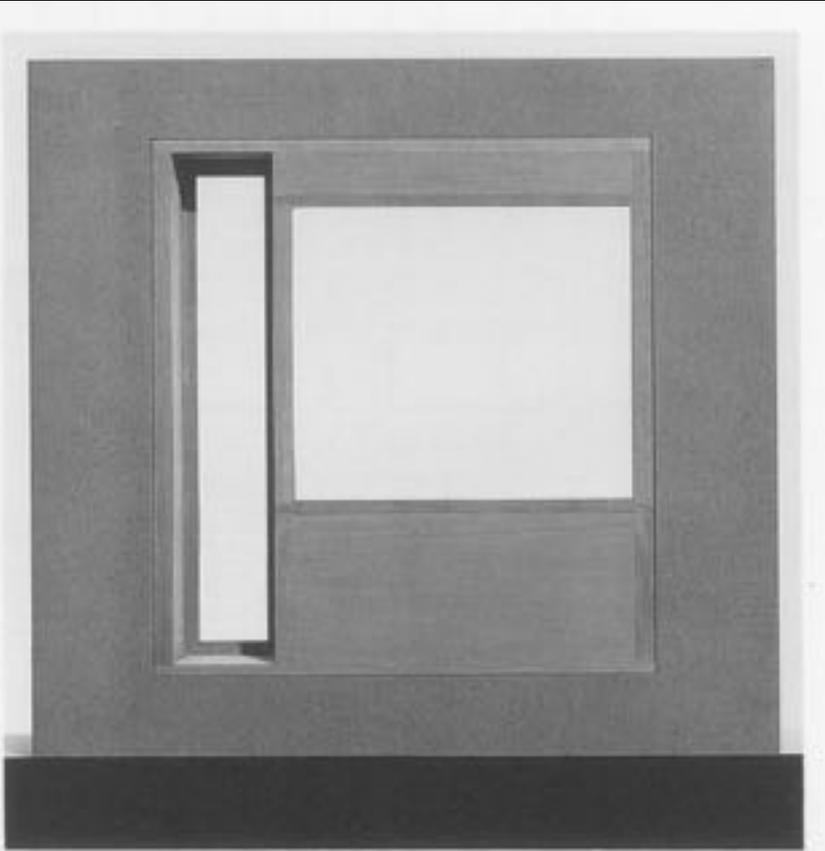


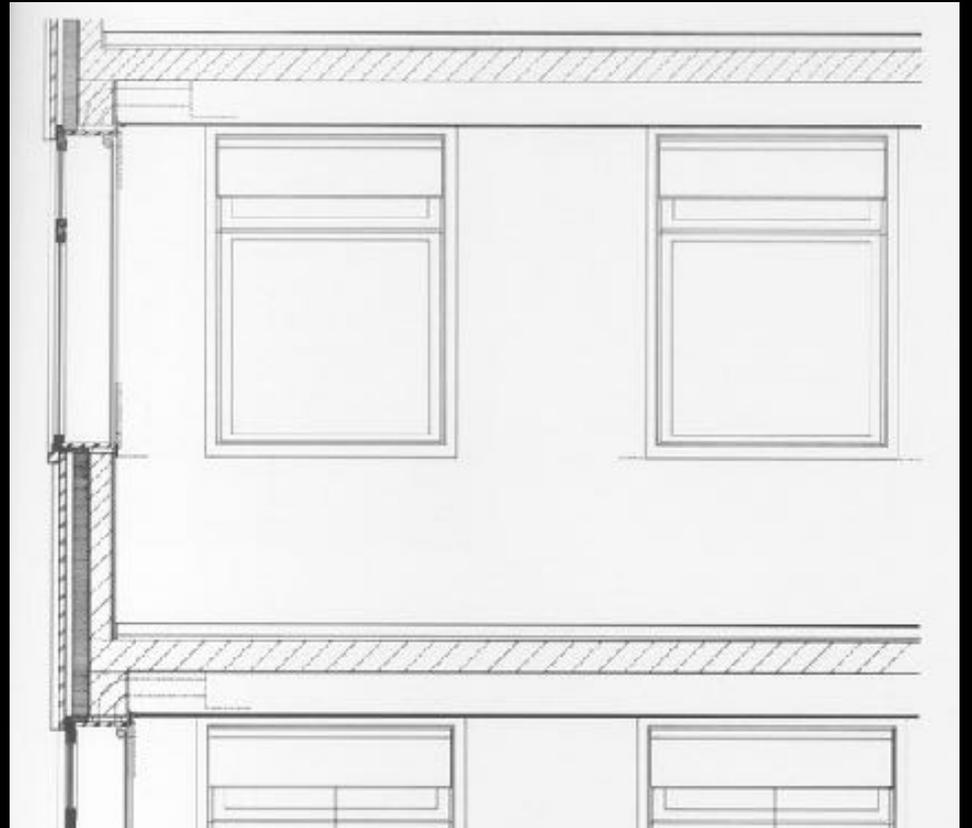


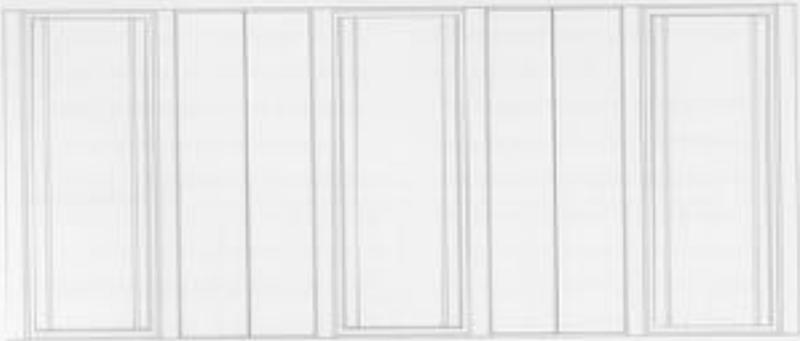




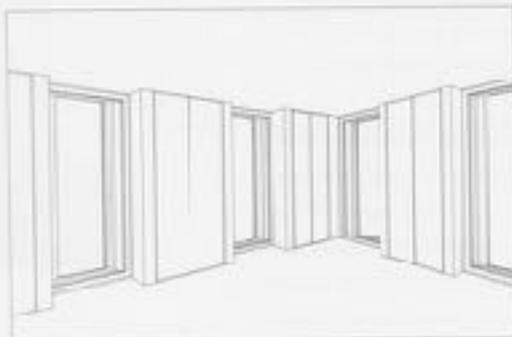


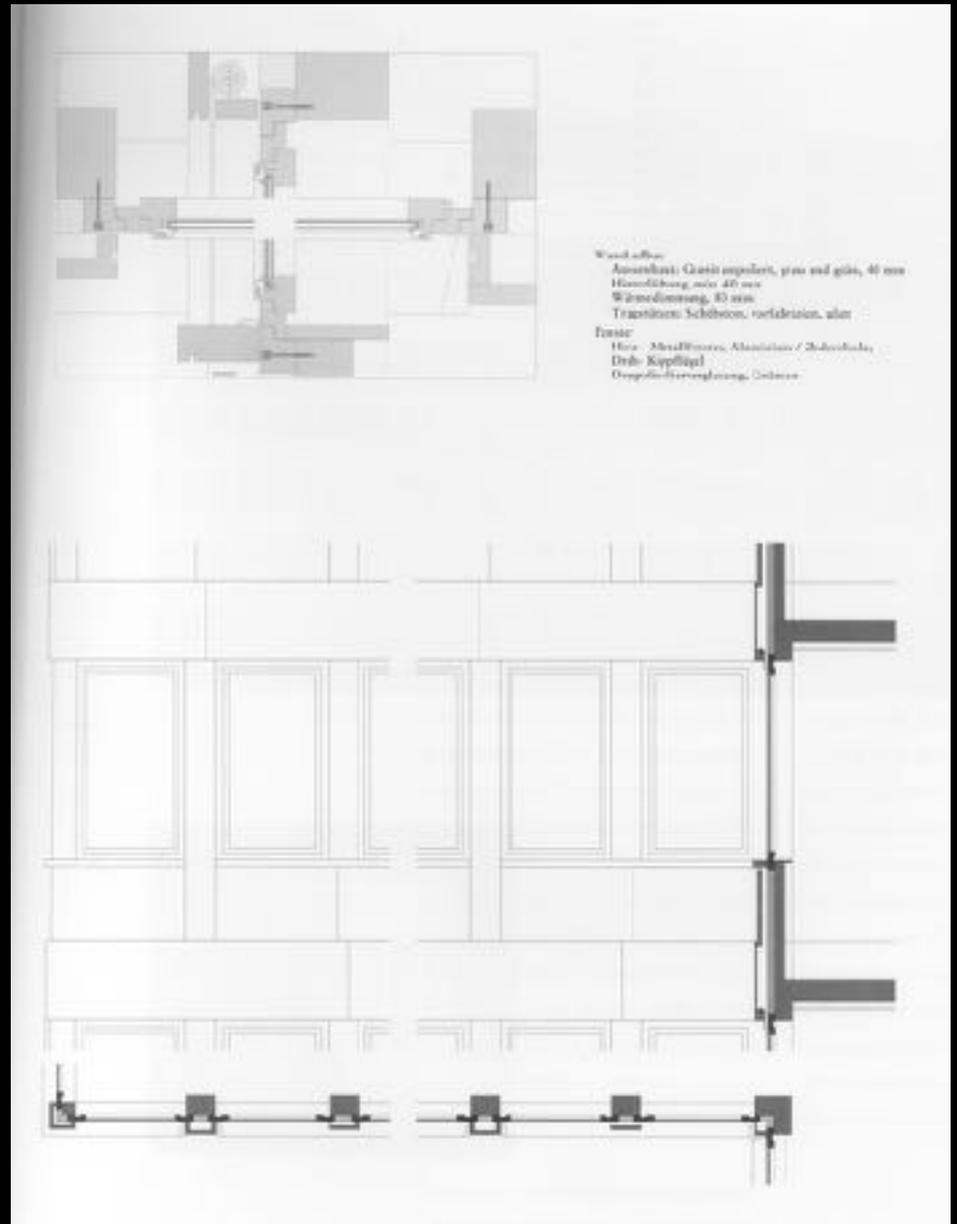
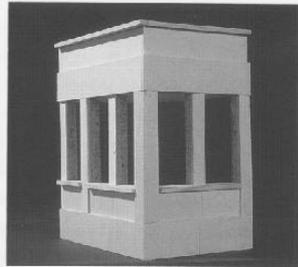
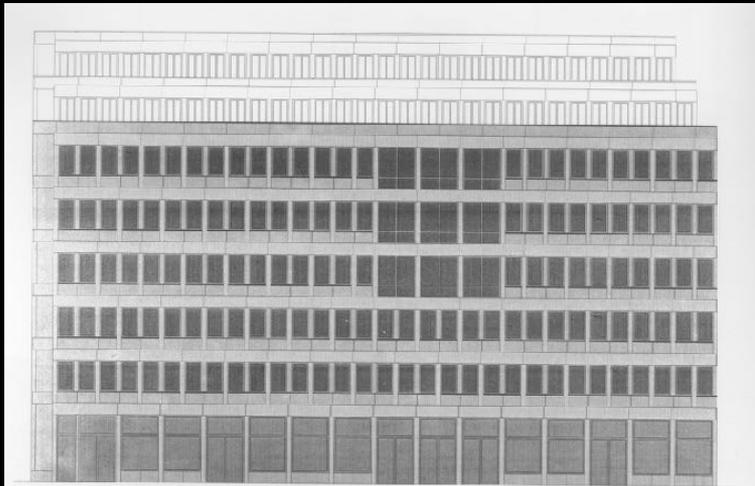


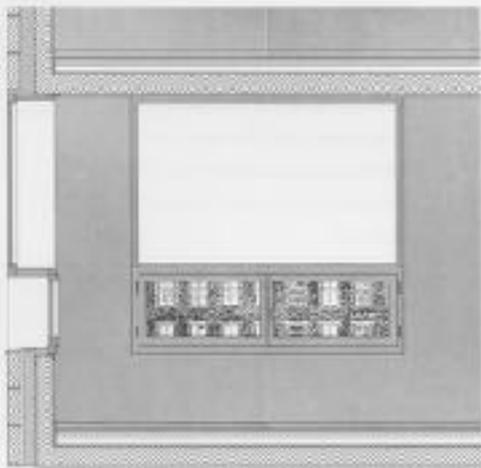




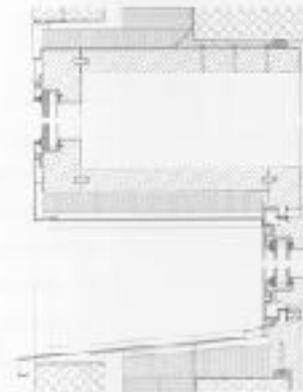
- Wandfenster
- Aussenschicht: selbsttragende Kunststoffpaneele, 120 mm
  - Inneneinfassung, 30 mm
  - Füllungsdämmung, 100 mm
  - Lattung
  - Schraubschloss, Bocke, 20 mm
  - vorgehängte Sichtbetondecke, glatt, 150 - 400 mm





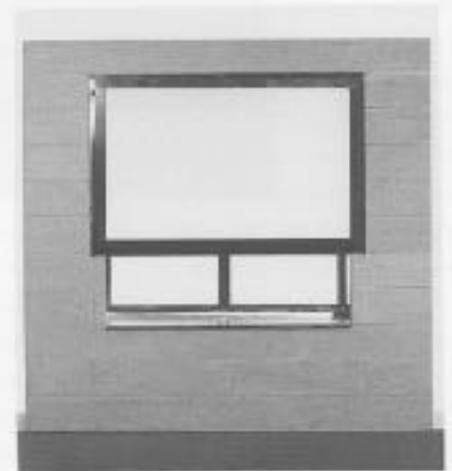


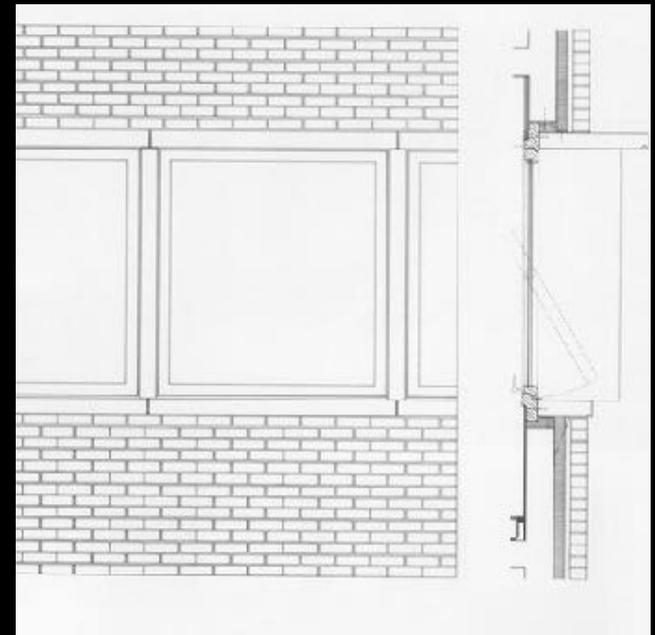
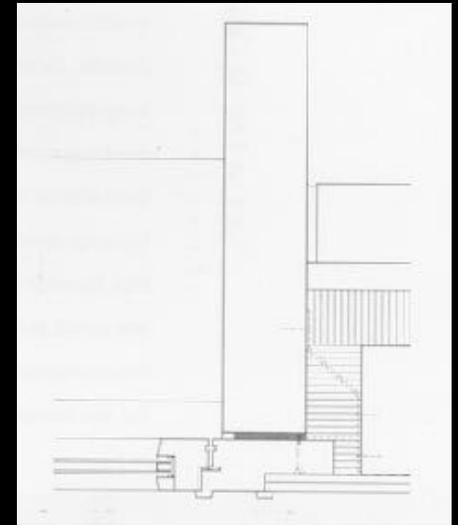
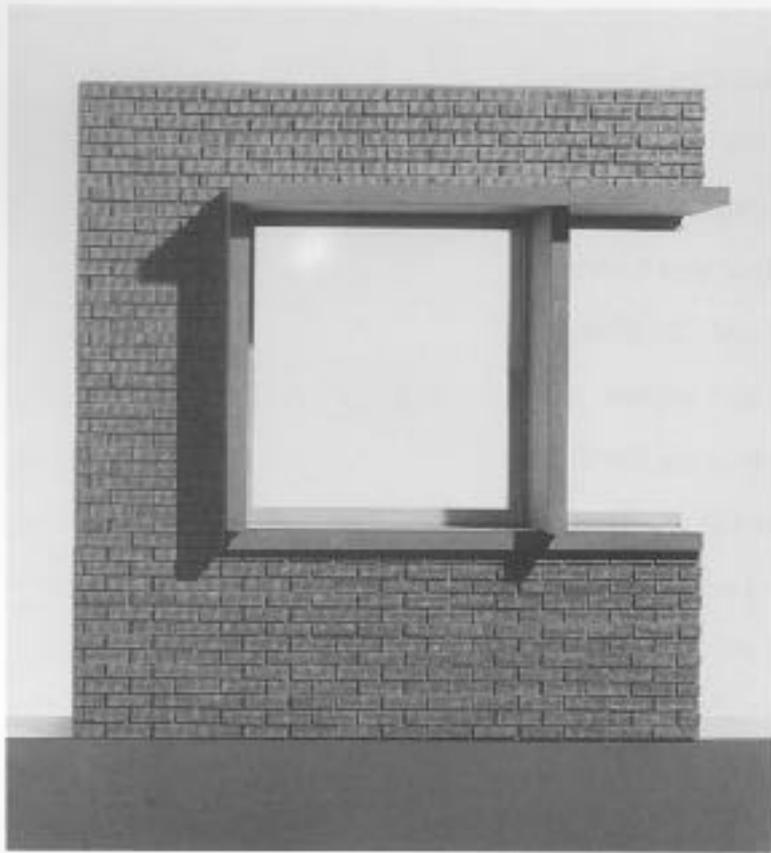
mit der  
 sich die  
 in beiden  
 ist vorzuziehen  
 von innen  
 vorzubilden



**Verbleib**  
 Außenputz selbsttragendes Mauerwerk  
 245 mm  
 Innendämmung 20 mm  
 Wärmehaube 110 mm  
 Taupunkt: Oberer Raumgrenz  
 unterputzseitig, 163 mm

**Einheit**  
 Oberteil: Holz - Alu-Verbundwerkstoff  
 einseitige Kante / außenliegend  
 Doppeldrillverglasung mit Clipsystem in U-Fram  
 Schließer: Holz - Alu-Verbundwerkstoff mit Abgri  
 einseitige Kante / außenliegend  
 Doppeldrillverglasung, 4 m





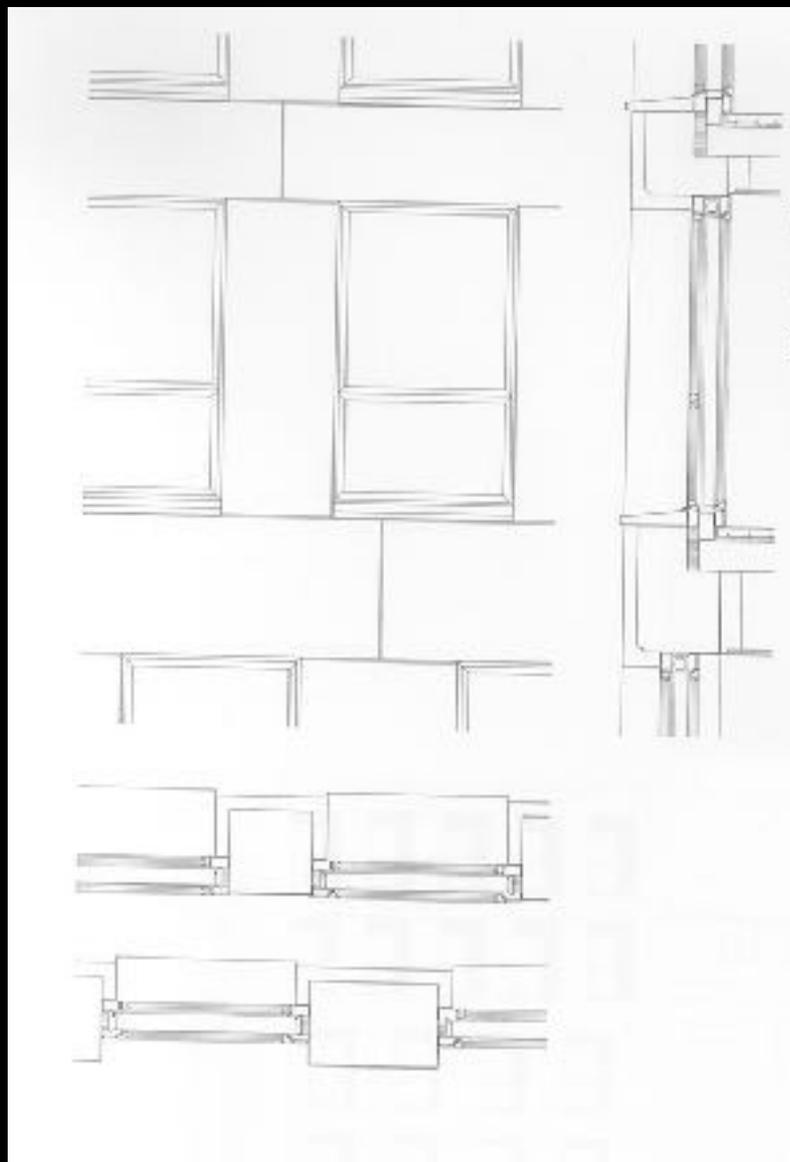
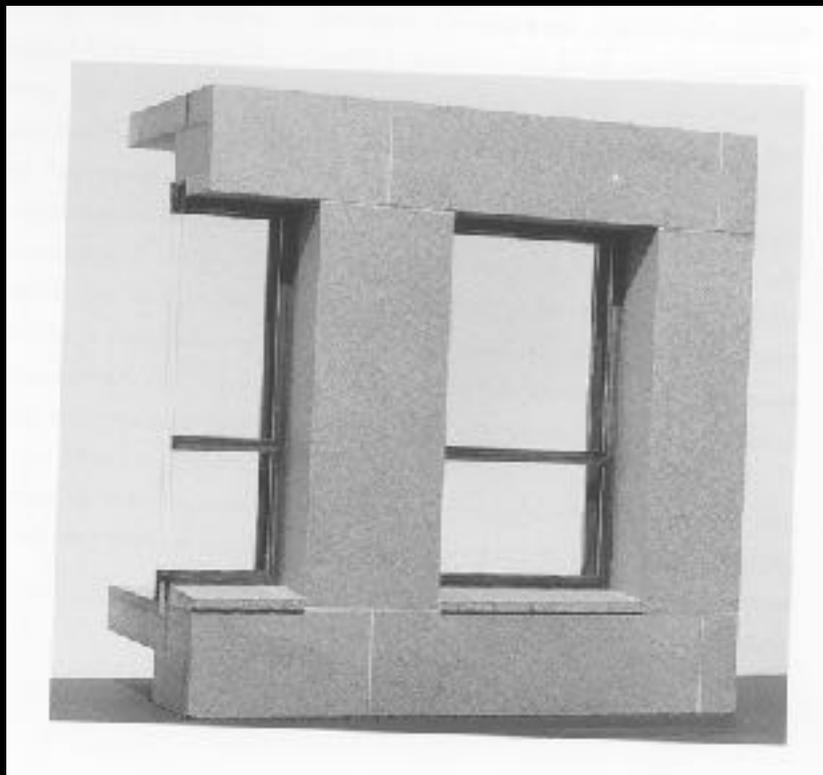


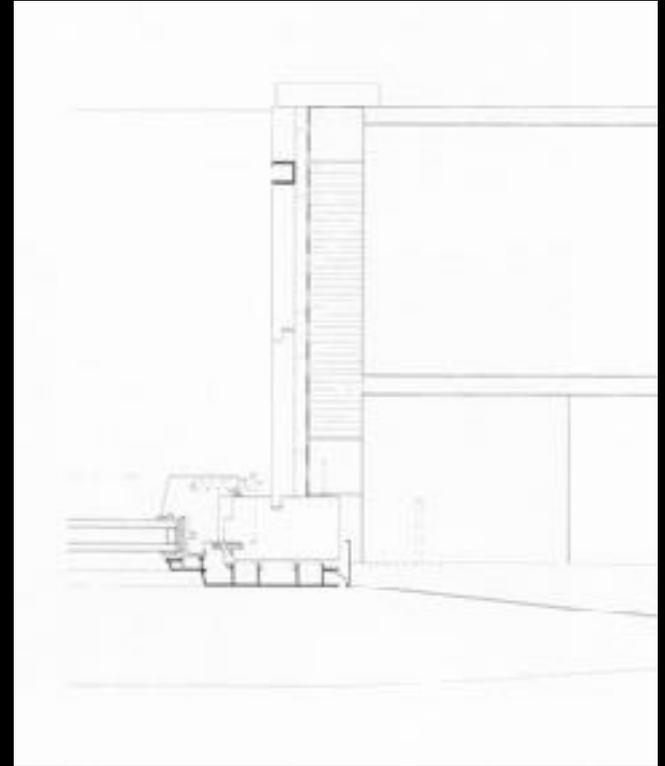
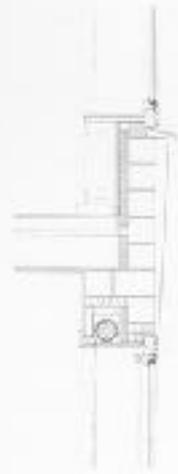
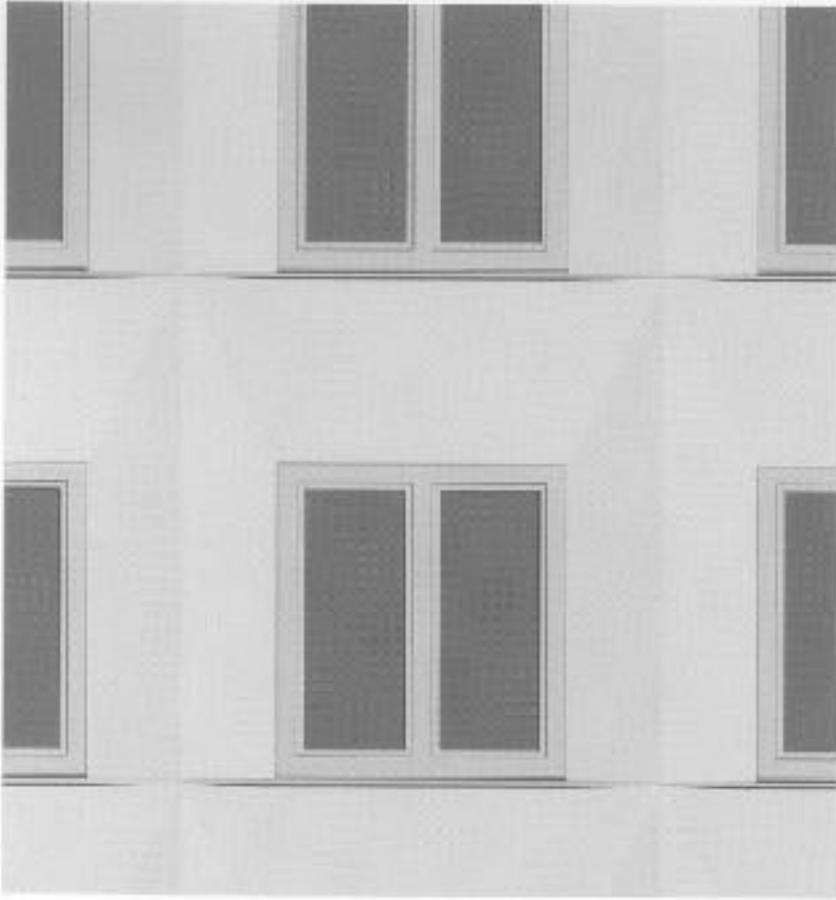
Experimentelles  
Entwerfen mit  
Industrieprodukten

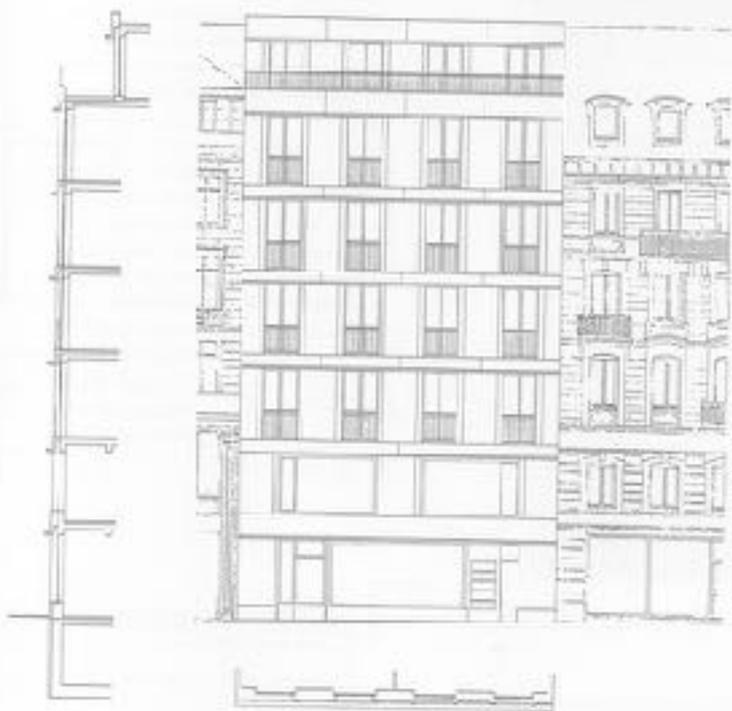
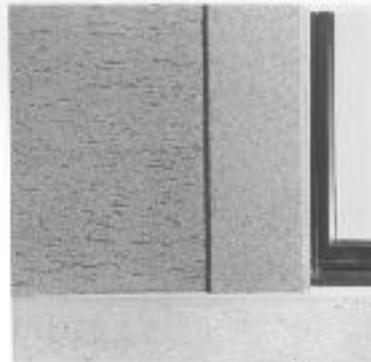
Temi:

Facciate:

Pietra, Intonaco, Ceramica





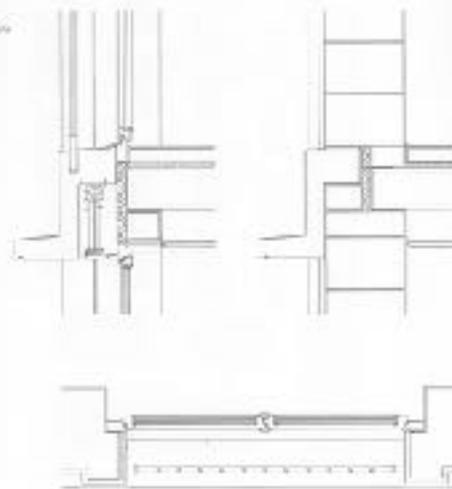


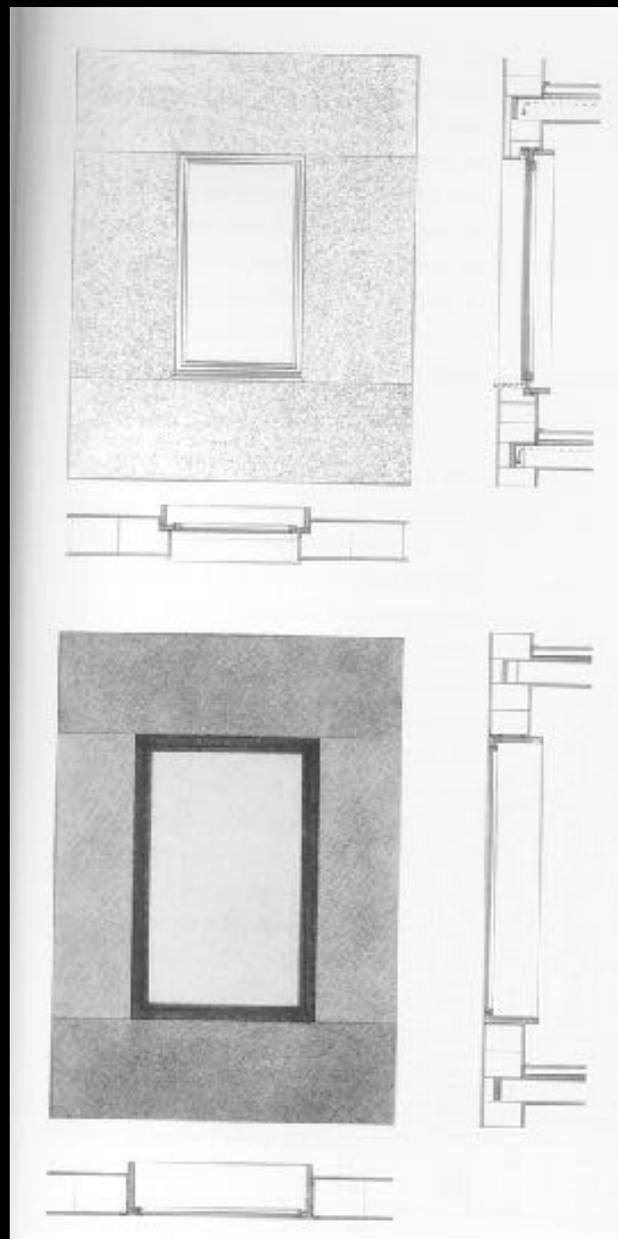
**Manufattura**

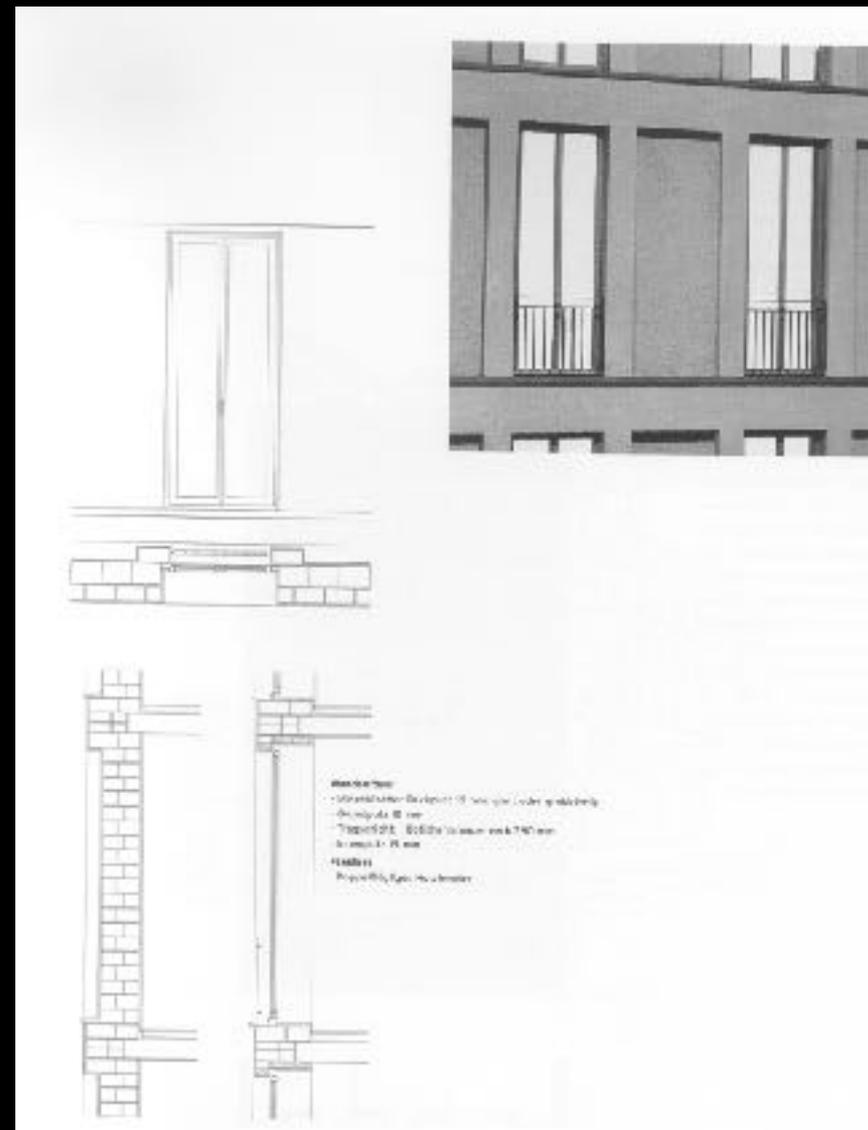
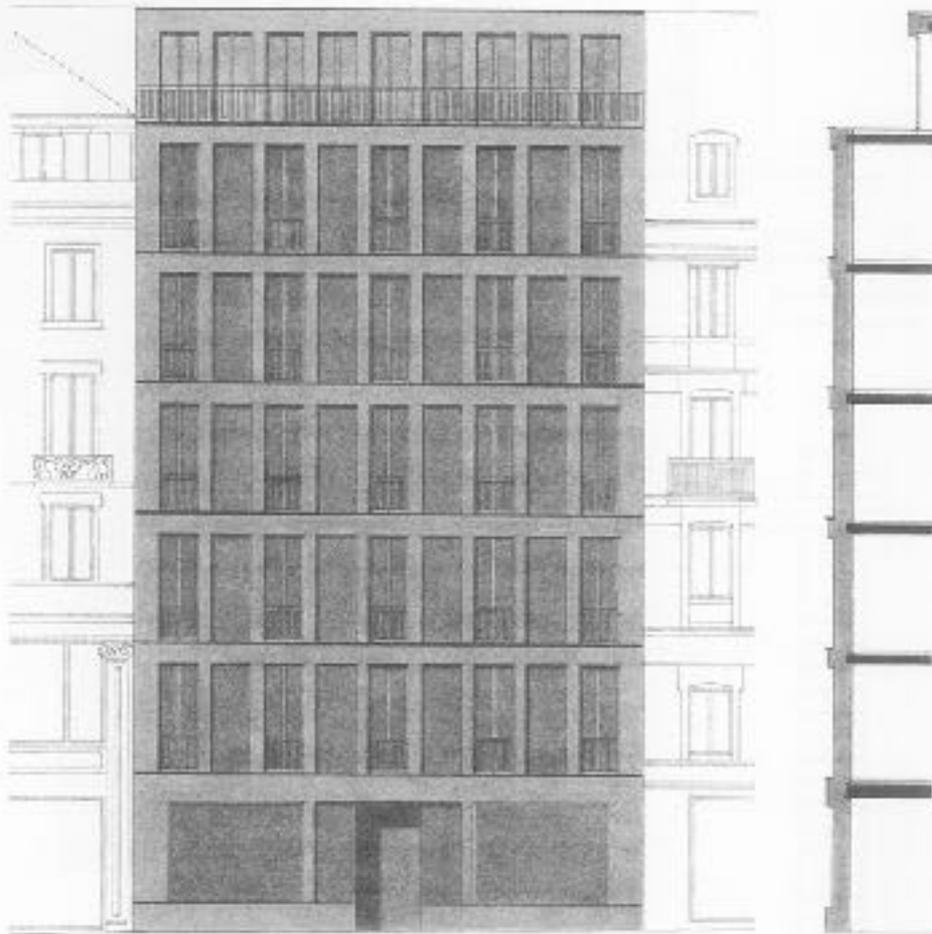
- DOP (pila) 2
- Isolamento acustico - 100 mm
- Lame di pannello 100 mm
- Strato inco. 100 mm

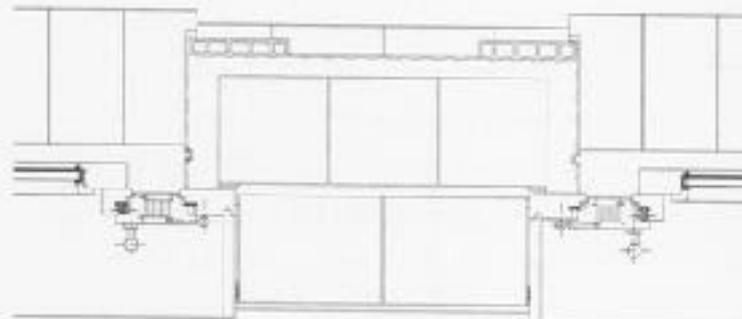
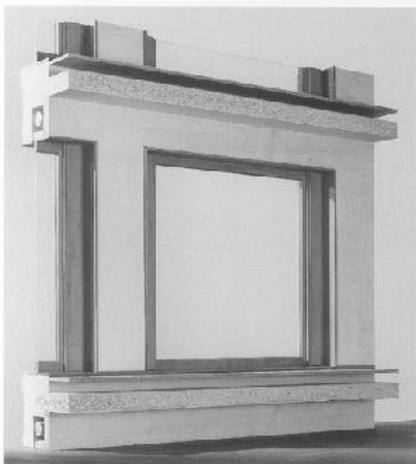
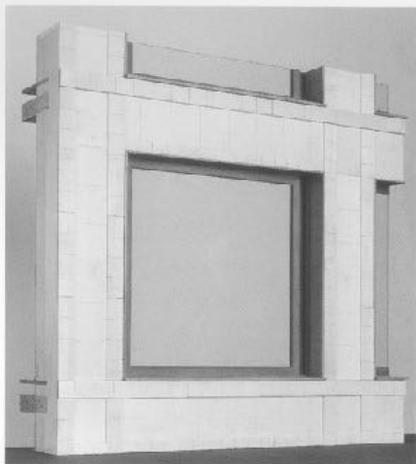
**Fixation**

- Accensione - Realtime
- Accensione - Realtime
- Accensione - Realtime
- Accensione - Realtime









**Wandaufbau:**

- Keramikplatten/Formsteine 6mm/40mm
- Klebemörtel 2mm
- Leichtputz 45mm
- Optithermmauerwerk 475mm
- Weissputz 15mm

**Fenster:**

- Grossflächige festverglasete Holzfenster, mit beidseitig schmalen, vertikalen Lüftungsfügeln

