Transformable Architecture in relation to the climate of a building

P5 Presentation | Architectural Engineering | Daan van Leeuwen | 16/12/2014
Climate Concept

**Wintertime**
- Outer facade opened, inner facade closed
- Roof opened to let rising hot air out
- Prevent overheating

**Finetuning:**
- Openable Roof
- Curtains & Ceiling shutters

**Spring / Autumn**
- Outer facade closed, inner opened
- Roof opened for max. ventilation
- Temp. inside = Temp. outside
- Living space flows into outside space

**Balcony extension:**
- Inner and outer facade opened
- Roof opened for max. ventilation
- Temp. inside = Temp. outside
- Living space flows into outside space

**Finetuning:**
- Openable Roof
- Curtains & Ceiling shutters

**Winter Garden:**
- Outer facade closed, inner opened
- Heat gain / Collecting Heat
- Winter Garden is part of the living space

**Finetuning:**
- Curtains & Ceiling shutters

**Bufferzone:**
- Inner and outer facade closed
- Optimal heat insulation
- Heat gain / Collecting Heat

**Finetuning:**
- Curtains & Ceiling shutters

**Hot Summer**
- Outer facade opened, inner facade closed
- Roof opened to let rising hot air out
- Prevent overheating

**Finetuning:**
- Openable Roof
- Curtains & Ceiling shutters

**Preventing Overheating:**
- Outer facade opened, inner facade closed
- Roof opened to let rising hot air out
- Prevent overheating

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