1. VOLUMETRIA PLANEAMIENTO
2. VOLUMETRIA PROPUESTA
3. PROGRAMA DEFINITIVO
MANZANA ESTRATEGIAS MEDIOAMBIENTALES

MANZANA AUTOSUFICIENTE

viento del mar refrigerado por la vegetación

vistas sin obstrucciones

RED ELECTRICA

PASAJE

RED DE RECOGIDA NEUMATICA

N
TRANSFORMATION OF DWELLING TYPE A
THE DWELLINGS THROUGHOUT THE YEARS

THE DWELLING THROUGHOUT THE SEASONS

WINTER // 21.12

SUMMER // 21.06

WINTER GARDEN
- sun catcher with single pane glass on the outside
- high thermal resistance ferratera

LOGGIA
- super ventilated space with thermal differential 24.9° - 16.8° (+8°)
- falls within the comfort range of the Govea chart: from 22° to 25° without HVAC for 68% of the times
WINTER
Day: energy accumulation and radiation to the interior
Night: energy accumulation, radiation and max insulation

Single glass pane 4.6.1

Doble glazing low emission glass 4/15/4

SUMMER
Day: cross ventilation and dining room extension
Night: night cross ventilation

Cross ventilation

Summer porch: living room extension

Sea breeze cooled by the treestops of the neighbouring park.

PASSIVE SYSTEM:
South facade with winter garden

① Barcelona blind or certified “PEFC” pine wood
② Prefab low energy embodied and high thermal resistance Terrazas
③ Wooden fiber / cement boards free of toxic volatile substances
④ Low emission glass