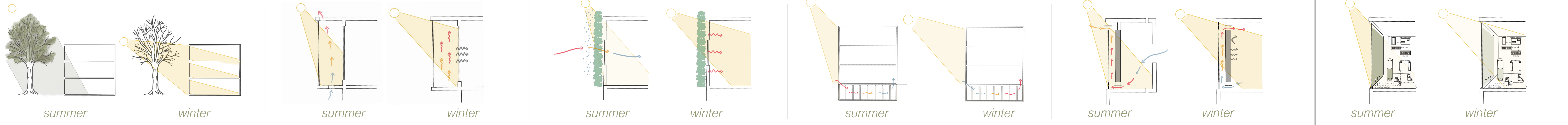
	ARCHITECTURAL FORM			PASSIVE TECHNIQUES						ACTIVE TECHNIQUES
	Shape and Orientation	Fenestration	Envelope shading	Sunspace	Shading with trees	Glazed balconies	Green envelope	Labyrinth thermal system	Trombe wall	Algae facade

Technical working



	Shape and Orientation	Fenestration	Envelope shading	Sunspace	Shading with trees	Glazed balconies	Green envelope	Labyrinth thermal system	Trombe wall	Algae facade
Architectural value	Visual comfort • optimal use of solar path Spatial comfort • enhances routing and area experience Social value • can create room for social gathering	Visual comfort • maximum daylight penetration Spatial comfort • potential layout difficulties due to large wall openings Social value • no added social value	Visual comfort • reduced visual comfort in summer Spatial comfort • overhangs pose potential for additional outdoor space Social value • no added social value	Visual comfort • reduces direct sunlight, especially in summer Spatial comfort • can be utilized as extra outdoor space, even in winter Social value • creates a social space for residents and visitors of the area	Visual comfort • reduced visual comfort in summer Spatial comfort • no added spatial comfort Social value • enhances natural cooling of the area and creates potential for social gathering	Visual comfort • reduces direct sunlight, especially in summer Spatial comfort • can be utilized as extra outdoor space, even in winter Social value • no added social value	Visual comfort • no added visual comfort Spatial comfort • no added spatial comfort Social value • creates a natural cooling effect and humidity balance in the area	Visual comfort • the system is applied in the basement so no visual comfort is hindered Spatial comfort • no added spatial comfort Social value • no added social value	Visual comfort • the system obstructs daylight penetration Spatial comfort • no added spatial comfort Social value • can be seen as architectural statement	Visual comfort • the algae panels can be used as adaptable shading systems Spatial comfort • no added spatial comfort Social value • can be seen as architectural statement and signiture piece of an area
Score	8	6	4	8	6	6	5	5	4	6
Carbon footprint	0,00 kg CO_2/m2 36% energy reduction	0,00 kg CO_2/m2 0% energy reduction	-114,58 kg CO_2/m2 19% energy reduction	96,64 kg CO_2/m2 36% energy reduction	-98,04 kg CO_2/m2 19% energy reduction	91,60 kg CO_2/m2 30% energy reduction	-40,39 kg CO_2/m2 20% energy reduction	106,50 kg CO_2/m2 31% energy reduction	89,48 kg CO_2/m2 30% energy reduction	254,01 kg CO_2/m2 50% energy reduction
Score	6	4	4	5	4	4	4	4	4	4