



IMAGE COURTESY OF WHITAKER STUDIOS

2018 DESIGN TRENDS

RESIDENTIAL ARCHITECTURE

GRACE LENNON AIA LEED AP BD&C

SCREEN

PG 3

SYMBOLIC

PG 12

VERNACULAR

PG 6

FLOATING

PG 9

SCREEN

INSPIRATION

PROVIDE **DAYLIGHTING** AND PASSIVE HEATING AND COOLING.

STRIVE TO BE **AFFORDABLE, GREENER,** AND MORE **EFFICIENT.**

PROVIDE AESTHETICALLY PLEASING, **FUNCTIONAL** DESIGN.

BALANCE OPENNESS AND PRIVACY.

APPLICATION

APPLY SCREENING ON FLOOR TO CEILING WINDOWS TO ALLOW NATURAL LIGHT AND PRIVACY.

INCORPORATE SCREENING AS AN ARCHITECTURAL FEATURE TO THE FACADE.



IMAGE COURTESY OF STUDIO 804

METAL

ARCHITECTURAL SCREENS CAN ADD A DYNAMIC QUALITY TO RESIDENTIAL FACADES, PROVIDING RHYTHM AND SCALE.

RECLAIMED METAL PANELS AND WOOD FROM RAILROAD TRESTLES WERE USED TO CREATE AN URBAN INFILL DWELLING CONCEIVED BY STUDENTS IN A DESIGN-BUILD PROGRAM AT THE UNIVERSITY OF KANSAS.

THE HOME, CALLED **1330 BROOK STREET**, IS THE LATEST EXAMPLE OF STUDIO 804'S MISSION TO CREATE SUSTAINABLE HOUSING, WITH THE HOME WRAPPED IN INSULATED METAL PANELS THAT WERE SALVAGED FROM ANOTHER CONSTRUCTION PROJECT IN TOWN. A SIGNATURE FEATURE OF THE HOME IS A STEEL SCREEN THAT LINES THE SOUTHERN ELEVATION, AND SHADES THE HOME'S GLASS WALLS, IN TURN REDUCING ENERGY COSTS.

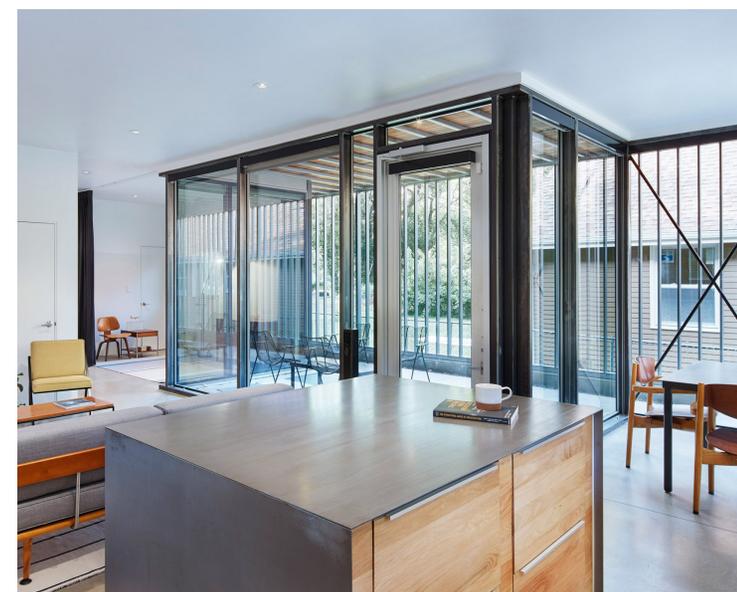


IMAGE COURTESY OF STUDIO 804

SCREEN

WOOD

USE OF SCREENS IN RESIDENTIAL ARCHITECTURE NOT ONLY FILTERS THE SUN, BUT ALSO ACTS AS A PRIVACY SCREEN.

RESIDENCE IN THE GALILIEE, DESIGNED BY GOLANY ARCHITECTS AND LOCATED IN ISREAL, OVERLOOKS THE SEA OF GALILEE WITH A SWEEPING VIEW FROM EVERY ROOM. SLATTED SHADES KEEP THE HOUSE COOL DURING HOT SUMMER DAYS, A SIMPLE BUT EFFECTIVE WAY OF ADAPTING THE BUILDING TO THE ENVIRONMENT OF THE REGION. THE LINEAR DESIGN OF THE SHUTTERS IS CLEAN AND MODERN, AND IS INSPIRED BY TRADITIONAL MASHRABIYA ARCHITECTURE. CARVED WOODEN LATTICEWORK ON THE SIDE OF BUILDINGS HAS BEEN USED IN ARCHITECTURE IN THE MEDITERRANEAN AND ISLAMIC WORLD SINCE THE 12TH CENTURY, WITH THE EARLIEST EXAMPLES HAVE BEEN FOUND IN BAGHDAD IN IRAQ, DATING FROM THE ABBASID PERIOD.



IMAGE COURTESY OF GOLANY ARCHITECTS; PHOTOGRAPHY @ AMIT GERON



IMAGE COURTESY OF NEW AFFILIATES; PHOTOGRAPHY @ MICHAEL VAHRENWALD

INSPIRATION

DESIRE TO INCORPORATE **NATURE** INTO THE HOME.

RESPOND TO A COMMUNITY'S **CULTURE, HISTORY,** AND **VERNACULAR** ARCHITECTURE.

PROMOTE **EXPERIMENTATION** WITH MATERIALS.

APPLICATION

REFERENCE VERNACULAR ARCHITECTURAL FORM IN RESIDENTIAL DESIGN.

PLAY WITH EXTERIOR MATERIALITY, REFERENCING NATURAL FORMS IN THE ENVIRONMENT.

VERNACULAR

FORM

ARCHITECTS ARE EMBRACING REGIONALISM AND CULTURAL BUILDING TRADITIONS, EXPLORING COMMUNITIES' ARCHETYPAL HOME DESIGN.

THE **TURNBRIDGE WINTER CABIN**, BY DESIGN STUDIO NEW AFFLIATES, IS TUCKED WITHIN VERMONT'S GREEN MOUNTAINS. STEEP, POINTY ROOFS AND SQUARE WINDOWS THAT FRAME VIEWS OF THE LANDSCAPE FIGURE INTO THIS PINE-CLAD RETREAT, AND TAKES CUES FROM THE AREA'S TRADITIONAL ARCHITECTURE, NOTABLY THE BARNs, HOUSES AND SHEDS. N/A SOUGHT TO CREATE A DESIGN IN WHICH 'REGULARITY IS INTERRUPTED BY SLIGHT MISALIGNMENTS AND MINOR ASYMMETRIES IN THE SIZE AND PLACEMENT OF ARCHITECTURAL DETAILS'. ENCOMPASSING 1,250 SQUARE FEET, THE CABIN CONTAINS LIVING QUARTERS AND A PAINTING STUDIO.

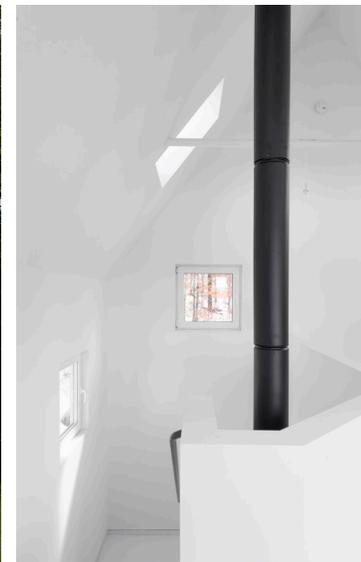


IMAGE COURTESY OF NEW AFFILIATES; PHOTOGRAPHY @ MICHAEL VAHRENWALD

VERNACULAR

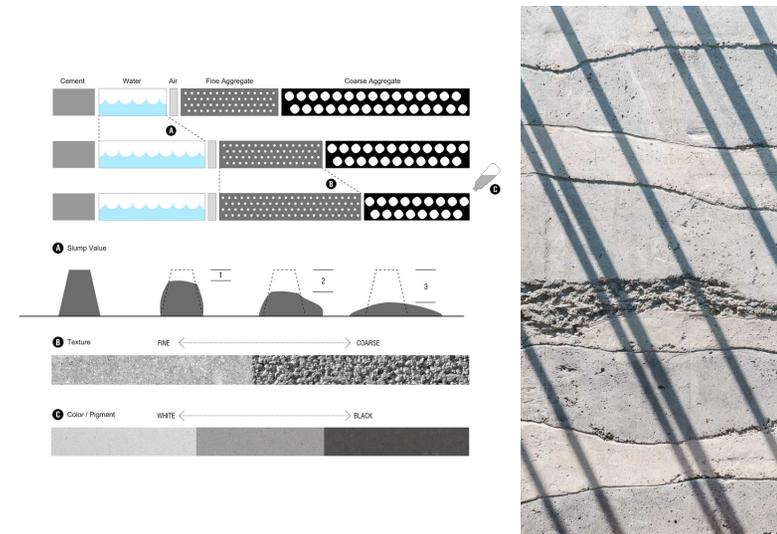
MATERIAL

ARCHITECTS ARE BEING INSPIRED BY LOCAL GEOLOGICAL PHENOMENONS THROUGH THE PLAYFUL USE OF MATERIALS, SPACE AND SHAPE.

THE STRIPY FACADES OF THE **STRATUM HOUSE**, ARE THE RESULT OF EXPERIMENTS BY ARCHITECTURE OFFICE STPMJ INTO HOW ALTERING THE CONSTITUENTS OF CONCRETE CHANGES ITS PROPERTIES. THE DESIGNERS ATTEMPTED TO SIMULATE A GEOLOGICAL FORMATION BY CASTING THE CONCRETE WALLS IN LAYERS WITH DIFFERENT PROPERTIES AND MIXTURES OF MATERIALS. TO DO THIS, THE PROJECT TEAM ADJUSTED THE TYPES OF AGGREGATE, THE AMOUNT OF PIGMENT, AND THE RATIO OF WATER TO CEMENT USED TO MAKE THE CONCRETE. THE WALLS WERE CAST OVER THE COURSE OF 22 DAYS, WITH A DIFFERENT MIXTURE USED EACH DAY.



IMAGES COURTESY OF STPMJ



VERNACULAR



IMAGE COURTESY OF WHITAKER STUDIOS

INSPIRATION

PUSH THE BOUNDARIES OF STRUCTURE AND **DEFY GRAVITY.**

PROTECT EXISTING ECOSYSTEM.

EMBRACE NEW MATERIALS AND ADVANCED **TECHNOLOGIES.**

USE **TOPOGRAPHY** AS INSPIRATION.

APPLICATION

FLOAT A BUILDING'S STRUCTURE ABOVE THE TERRAIN TO ALLOW FOR UNINTERRUPTED VIEWS.

PLACE A BUILDING ABOVE-GROUND FOR MINIMAL IMPACT ON THE EXISTING ENVIRONMENT.

FLOATING

VIEWS

BUILDINGS THAT ARE DESIGNED ON STILTS ALLOW FOR 'FLOATING' SPACES ABOVE EXISTING LANDSCAPE. THIS KIND OF VOLUME CAN PROVIDE EXPANSIVE VIEWS AND A STRONG CONNECTION TO THE OUTDOORS.

PINE LOUVERS COVER THE GLAZED SIDES OF **CABIN KVITFJELL**, DESIGNED BY OSLO STUDIO LUND HAGEM ARKITEKTER. THE Y-SHAPED CABIN FORKS AT ONE END TO PRESENT TWO LARGE WINDOWS TOWARDS SLOPES IN NORWAY'S KVITFJELL SKI RESORT. THE DESIGN IS SET ON ONE OF THE HIGHEST BUILD-ABLE PLOTS IN THE RESORT, WHERE THE SLOPING TERRAIN IS POPULATED BY BIRCH AND PINE TREES. BATONS OF TIMBER COVERING THE EXTERIOR GIVE THE INTERIOR A LESS EXPOSED AND COZIER FEEL, AND THE SLATS, WHICH ALSO PROTECT A LINEAR TERRACE, HAVE BEEN TREATED WITH IRON SULPHATE THAT WILL ACCELERATE THE GREYING PROCESS OF THE WOOD. STRUCTURALLY, THE MAIN CABIN AND THE ANNEX WERE BUILT ON STILTS, RAISED FROM THE GROUND, IN ORDER TO TOUCH THE GROUND IN THE 'LIGHTEST' MANNER POSSIBLE.

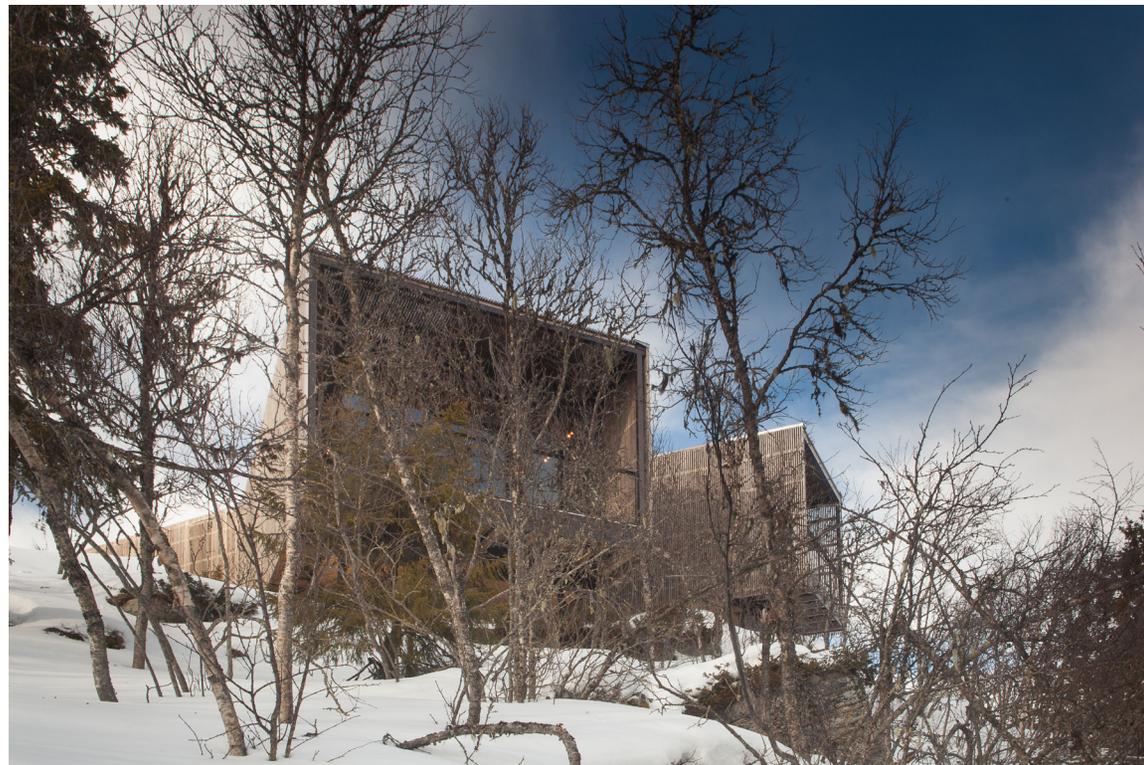


IMAGE COURTESY OF LUND HAGEM ARCHITECTS; PHOTO CREDIT © SAM HUGHES, MARC GOODWIN

FLOATING

ECOSYSTEM

FLOATING A STRUCTURE ABOVE A PREVIOUSLY UNTOUCHED TERRAIN ALLOWS FOR MINIMAL DISTURBANCE TO THE EXISTING ECOSYSTEM, WHILE ALSO PUSHING THE BOUNDARIES AND CREATING FORMS THAT ARE BOTH COMPLEX AND DYNAMIC.

BLOSSOMING FROM THE RUGGED TERRAIN OF THE CALIFORNIA DESERT, WHITAKER STUDIO'S **JOSHUA TREE RESIDENCE** IS TAKING SHIPPING CONTAINER ARCHITECTURE TO THE NEXT LEVEL. THE HOME IS LAID OUT IN A STARBURST OF CONTAINERS, EACH ORIENTED TO MAXIMIZE VIEWS, PROVIDE ABUNDANT NATURAL LIGHT OR TO CREATE PRIVACY DEPENDENT ON THEIR LOCATION AND USE. THE STRUCTURE IS ATOP A ROCKY OUTCROPPING WHERE A SMALL GULLY HAD BEEN CREATED BY RUSHING STORMWATER. THE SHIPPING CONTAINER "EXOSKELETON" WILL BE RAISED ON CONCRETE PILOTIS, ALLOWING WATER TO CONTINUE TO PASS UNDERNEATH. EXTERIOR AND INTERIOR SURFACES WILL BE PAINTED A BRIGHT WHITE TO REFLECT LIGHT FROM THE HOT DESERT SUN.



IMAGE COURTESY OF WHITAKER STUDIOS



FLOATING

SYMBOLIC

INSPIRATION

INCORPORATE **CLEAN LINES** AND FLUIDITY.

PROMOTE DESIGN THAT CELEBRATES THE **PASSAGE OF TIME.**

PROVIDE A BOLD ARCHITECTURAL STATEMENT THAT PROMOTES A **SENSE OF PLACE.**

CONNECT TO THE EARTH'S **ROTATION.**

APPLICATION

FIND INSPIRATION IN THE MOON AND SUN FOR DESIGN.

INCORPORATE VEGETATION THAT SHOWS THE PASSAGE OF THE SEASONS WITHIN INTERIORS .

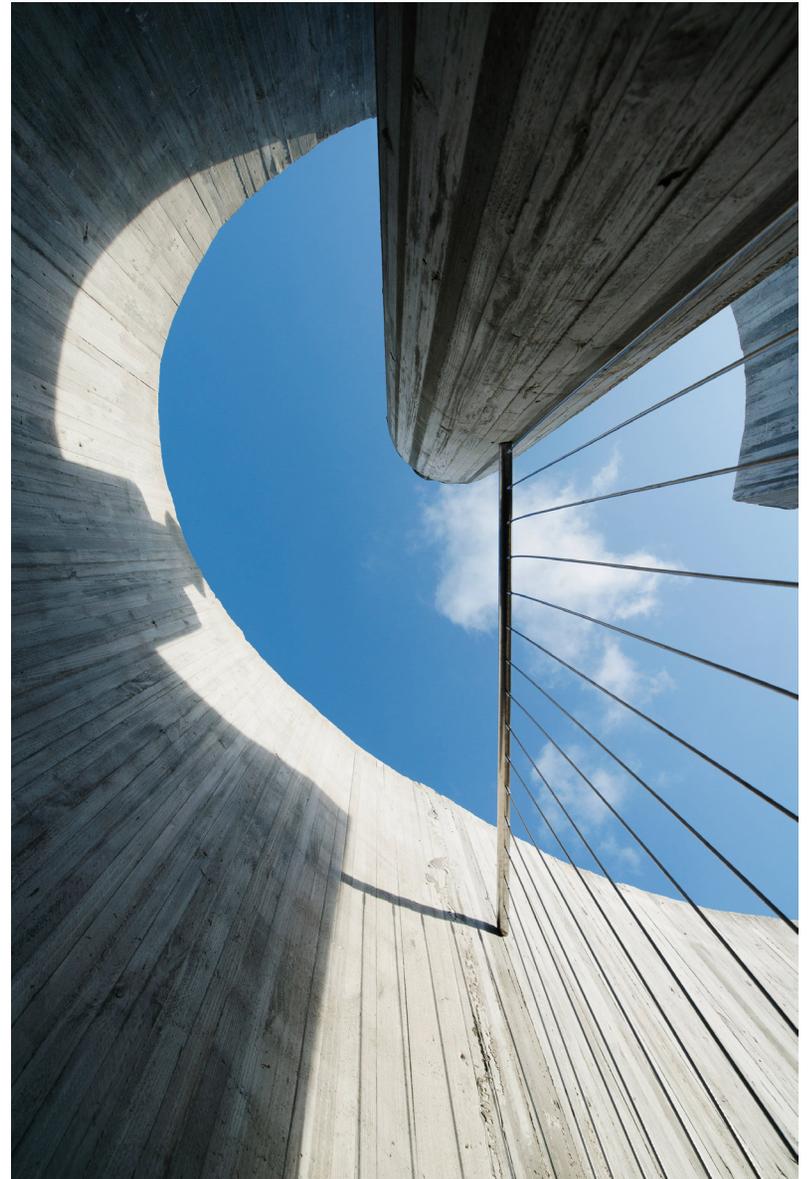


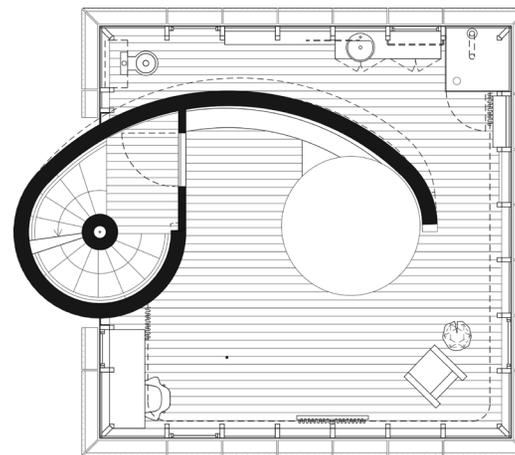
IMAGE COURTESY OF CHRISTIAN WASSMANN; PHOTOGRAPHY @ CASEY KELBAUGH

SYMBOLIC

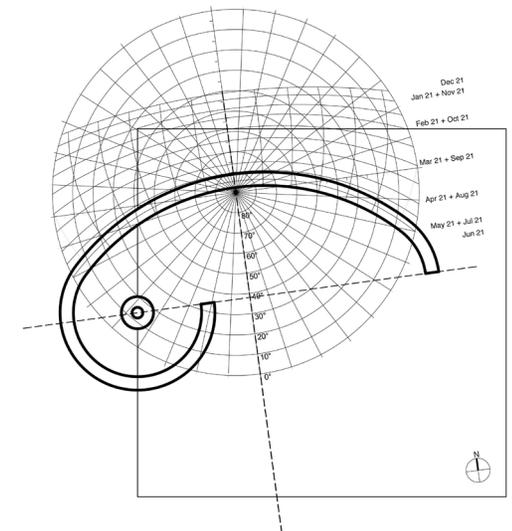
SUN

DESIGNERS ARE USING THE EARTH'S ROTATION AS DESIGN INFLUENCE, TAKING INTERIOR LAYOUTS DIRECTLY FROM THE SUN'S PATH.

THE **SUN PATH HOUSE**, DESIGNED BY STUDIO CHRISTIAN WASSMANN, IS A PLANT-COVERED EXTENSION TO A BUNGALOW IN MIAMI THAT IS INSPIRED BY THE SUN'S PATH. THE STANDALONE STRUCTURE COMPRISES AN EXTERIOR KITCHEN ON THE GROUND FLOOR, A MASTER BEDROOM ON THE FIRST STORY, AND A SUN DECK ON THE ROOF. A SPIRALING, BOARD-FORMED CONCRETE WALL FORMS THE CORE OF THE HOME, AND ENCASES A STAIRCASE THAT PROVIDES ACCESS TO THE LIVING SPACES. ITS SHAPE WAS DETERMINED BY THE PATH THE SUN TAKES DURING THE SUMMER SOLSTICE – THE LONGEST DAY OF THE YEAR IN THE NORTHERN HEMISPHERE, WHICH FALLS ANNUALLY ON 21 JUNE.



MASTER BEDROOM

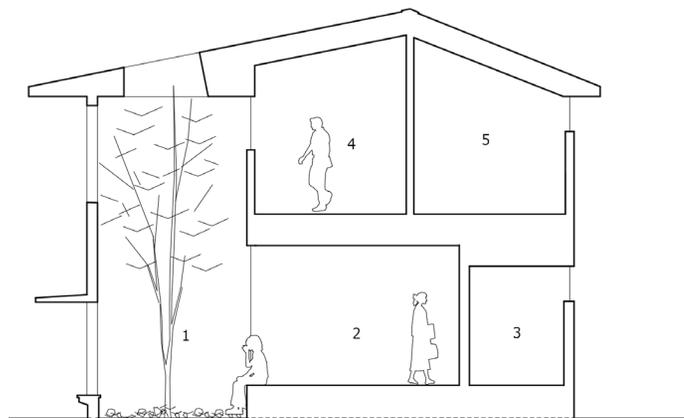


SYMBOLIC

TREE

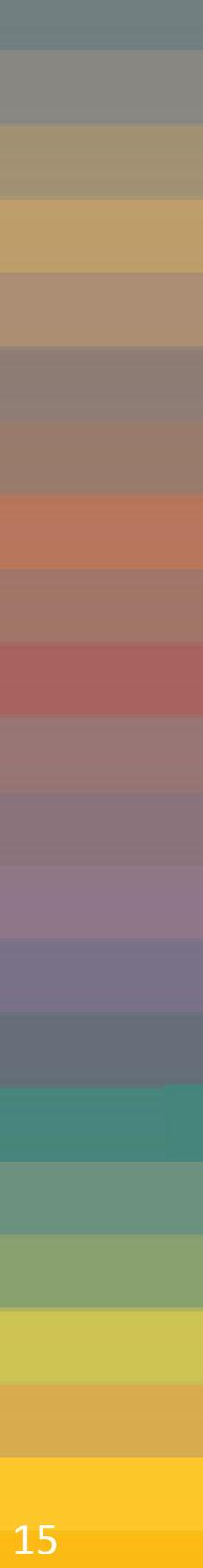
INTRODUCING VEGETATION AND NATURAL ELEMENTS WITHIN THE INTERIOR OF HOMES CAN REDUCE STRESS AND ALLOW RESIDENTS TO EXPERIENCE THE PASSAGE OF TIME.

THE **KYOMACHI HOUSE** IN JAPAN'S SHIGA PREFECTURE WAS DESIGNED BY LOCAL STUDIO HEARTH ARCHITECTS AROUND AN INDOOR GARDEN, WHICH IS PLANTED WITH A TREE THAT EXTENDS TOWARDS A SKYLIGHT. THE TALL ROUGH RENDERED WALLS AROUND THE GARDEN PROVIDE THE RESIDENTS WITH PRIVACY FROM THE STREET, WITH TWO OPENINGS THAT OFFER NATURAL VENTILATION. THE INNER WALLS OF THE GARDEN ARE ALSO FITTED WITH OPENINGS TO OFFER VIEWS FROM THE SPACES INSIDE TOWARDS THE GARDEN AND ACCESS TO DAYLIGHT. THE RESIDENTS CAN ENJOY THE CHANGE OF THE SEASONS AND TIME THROUGH THE SYMBOLIC TREE.



Section:1/100





THANK YOU

ALL PHOTOS AND CONTENT USED WITH PERMISSION

DESIGNERS FEATURED:

- **WHITAKER STUDIOS**
- **STUDIO 804**
- **MAPA ARCHITECTS**
- **NEW AFFILIATES**
- **STPMJ**
- **LUND HAGEM ARCHITECTS**
- **CHRISTIAN WASSMANN**
- **HEARTH ARCHITECTS**

CREDITS