

FRONT ELEVATION
SCALE 1:2500

FORM DEVELOPMENT

CUBOID

THE FORM (60CM * 60CM * 30CM) TAKEN FOR ITS UNIFORMITY, BALANCE AND TO ESTABLISH A CONSISTENT RHYTHM.



DIAMOND

THE FORM NOW ROTATED TO ALLOW MORE DIRECT AIR CONTACT, AND THE SIDE EDGES ARE CURVED INWARDS TO REDUCE DRAG AND CREATE SPIN.



PINCHED DIAMOND

THE FORM NOW PINCHED AT THE EDGES TO REDUCE FRONTAL RESISTANCE, AND CONCENTRATE AIRFLOW TO ENHANCE ROTATION.



PINCHED HOLLOWED DIAMOND

THE FORM NOW UPWARDS FROM TOP AND BOTTOM, TO EMPHASIZE THE LIFT AND REDUCE STAGNATION AND RESPOND RHYTHMICALLY TO AIR.



ASYMMETRICAL DIAMOND

THE FORM NOW HAS ASYMMETRICAL SIDES TO DIRUPT UNIFORM AIRFLOW, AND GENERATES TORQUES, ENHANCING ROTATION.



ASYMMETRICAL PINCHED DIAMOND

THE FORM NOW HAS INCREASED FRONT PINCH AS IT TILTS THE SURFACE TOWARD THE ONCOMING WIND, AND AMPLIFIES DIRECTIONALITY.



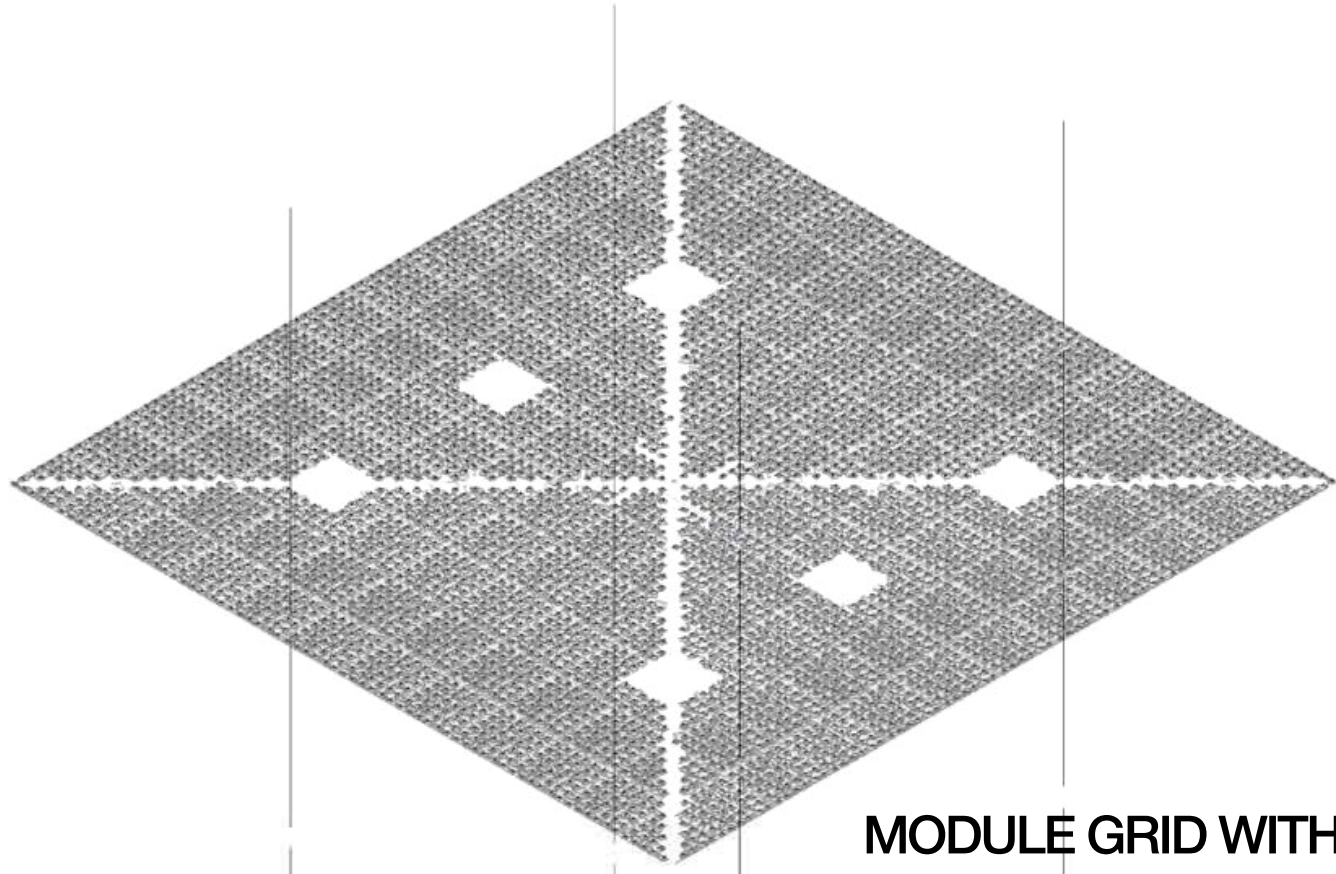
ASYMMETRICAL TWISTED DIAMOND

THE FORM NOW HAS BEEN TWISTED AROUND ITS CENTER SPINE TO ENCOURAGE AIRFLOW TO WRAP AROUND THE FORM AND ADD TO THE MOVEMENT.



FINAL FORM

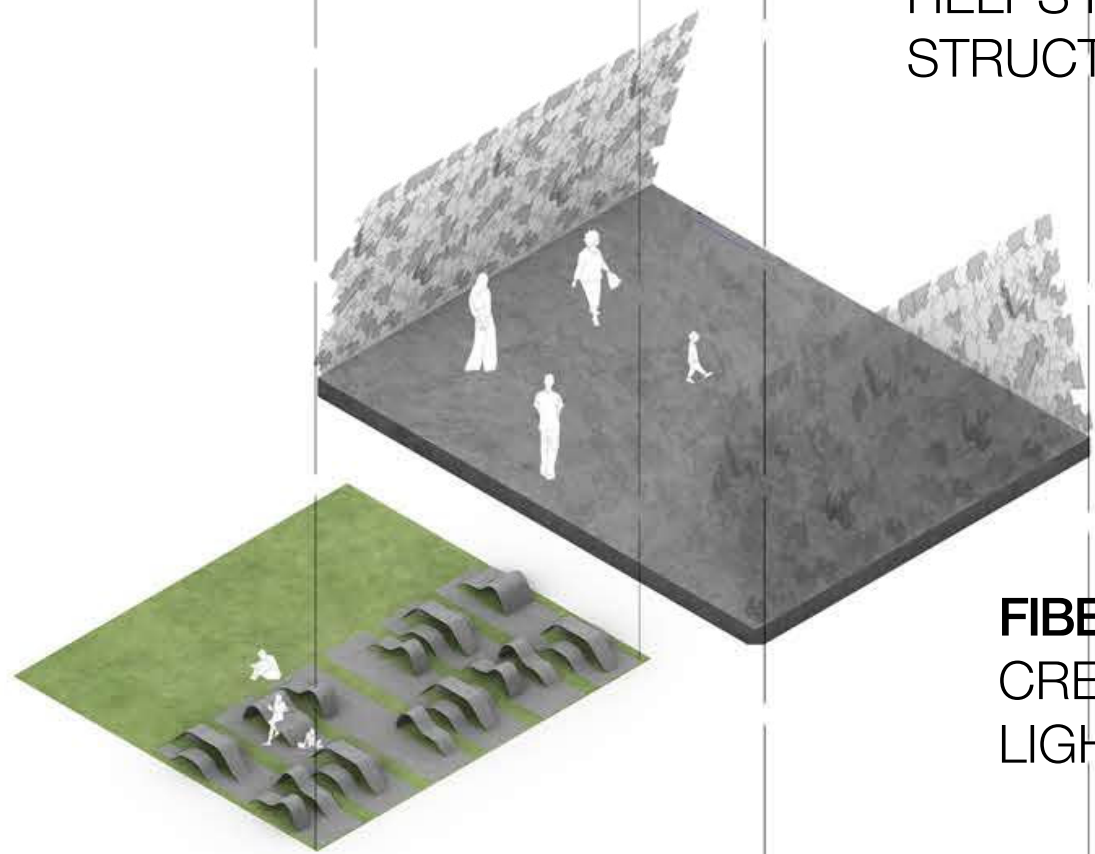
THE FORM HENCE SYNTHESISED GIVES US A HIGHLY AERODYNAMIC FORM, THAT HELPS IT ROTATE WITH WIND, AND ALSO BALANCES THE SOLAR PANEL.



MODULE GRID WITH ROTATING MODULES
CREATES A VISUAL INTERACTIVE MEMBRANE



COLUMNS
HELPS MAKE THE SPACE FEEL MORE STRUCTURED.



FIBERGLASS MESH
CREATES COLORFUL SHADOWS, AND LIGHT AND DARK VISUAL DIFFERENCE.

ISOMETRIC



ERGONOMIC BENCH
PROMOTES INDIVIDUALISM, AND GIVES PEOPLE A SPACE TO THEMSELVES YET SHARED,

TRIAL FORMS AND OBJECTS

1ST MODULE : SHAPED AND INSPIED BY A TEARDROP, THIS MODULE OFFERS LOW DRAG, BUT SO LACKED STABILITY. IT HAD NO ROTATIONAL TENDENCY AND WOULD REQUIRE GENERATORS.

2ND MODULE : THE ASYMMETRICAL SHAPE DISRUPTED AIRFLOW, AND CREATED DRAG AND INSTABILITY. THE RIDGE IN THE MIDDLE OF THE MODULE, WAS BAD FOR CONSISTENT FLOW AND HENCE NOT PRACTICAL HERE.

3RD MODULE : THE LOFTED STAR SHAPE WAS TOO CONSISTENT AND SMOOTH FOR IT TO RESIST OR INTERACT WITH ANY AIR FLOW, HENCE FAILING TO PRODUCE DESIRED OUTCOME.

