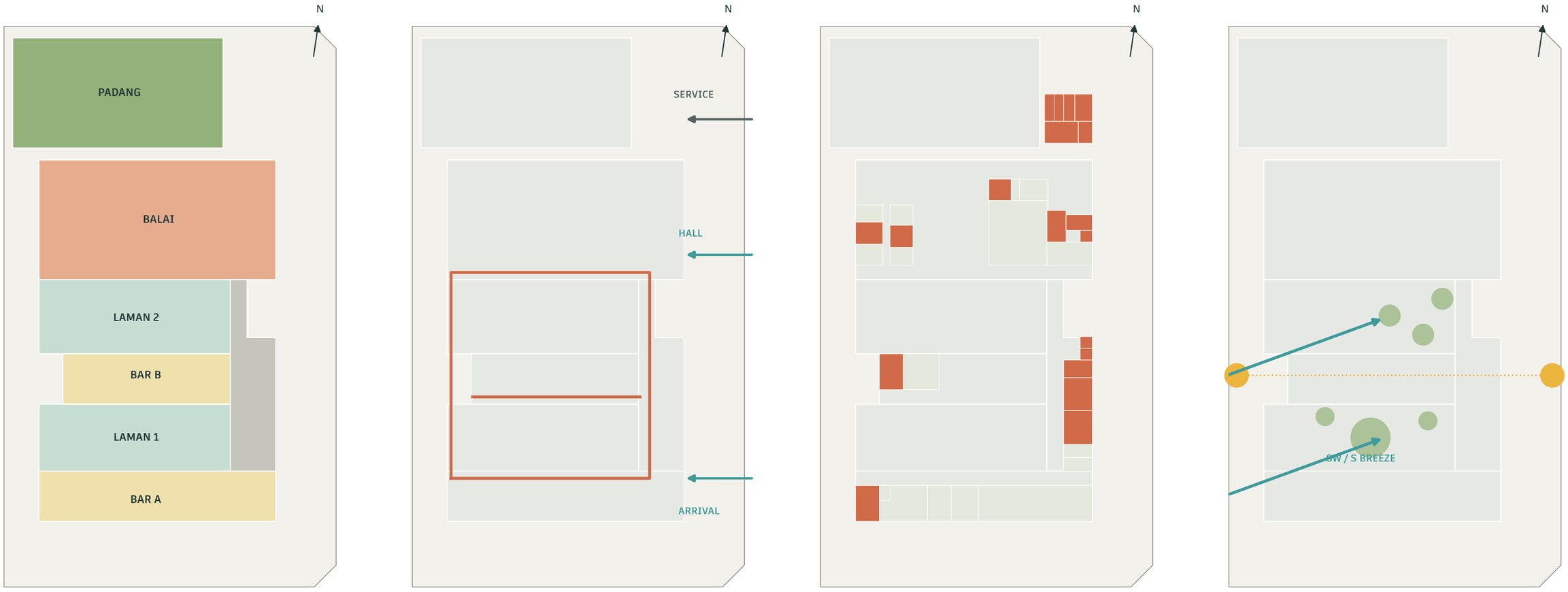
The school at a glance

Four complementary plan diagrams: outdoor rooms, movement, support spaces and climate



01 Outdoor rooms

The padang addresses the north road. Two laman lie between the teaching wings and the balai.

02 Covered movement

Verandas, gallery and kaki lima link the wings. Pupil arrival, hall access and service approaches remain distinct.

03 Rooms and support

Put learning and social rooms beside courtyards. Group stairs, WCs and plant at the ends and eastern edge.

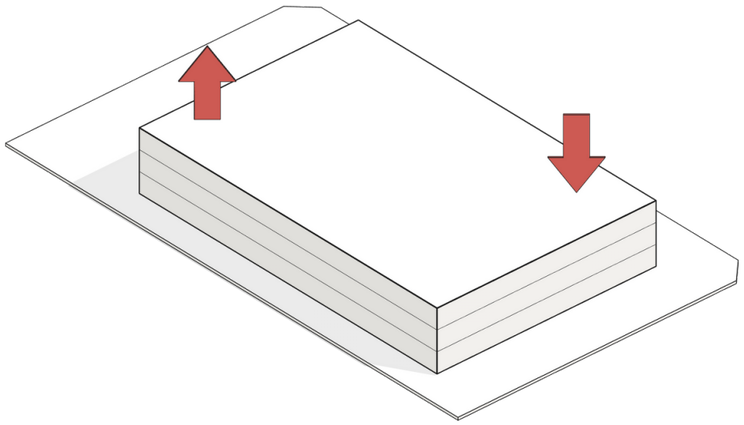
04 Climate response

Respond to southerly and south-west winds with openings and courtyards. Use eaves, screens and planting for shade.

PLAN DIAGRAMS / Schematic, not to scale. Wind direction follows the group site study.

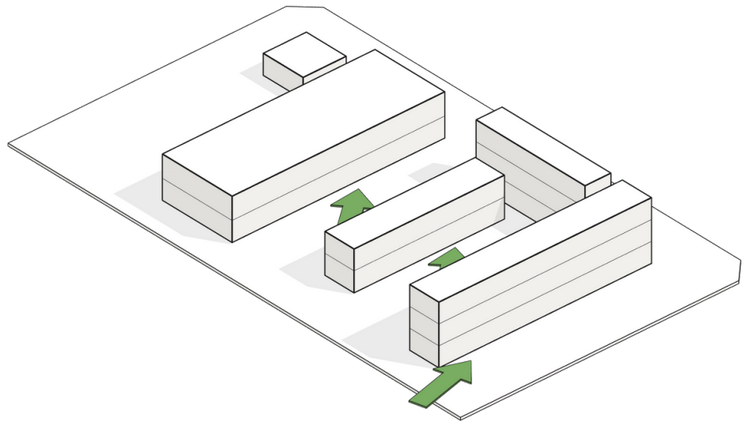
Six moves, one school

From a compact brief to a connected family of wings, verandas and courtyards



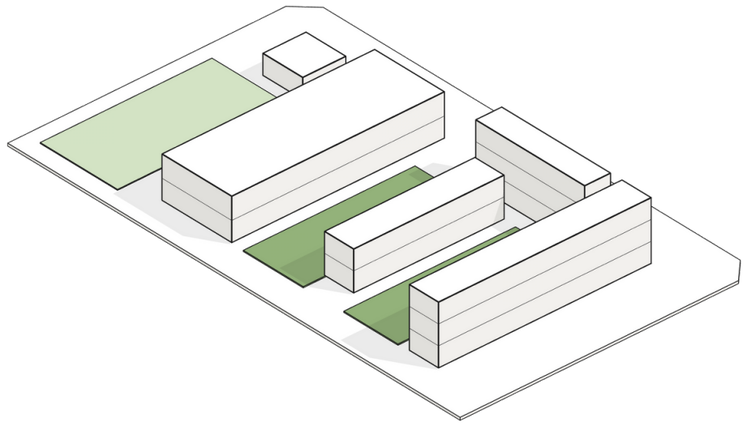
01 Gather the brief

Begin with a compact volume, then open it up to bring daylight, shade and outdoor space into school life.



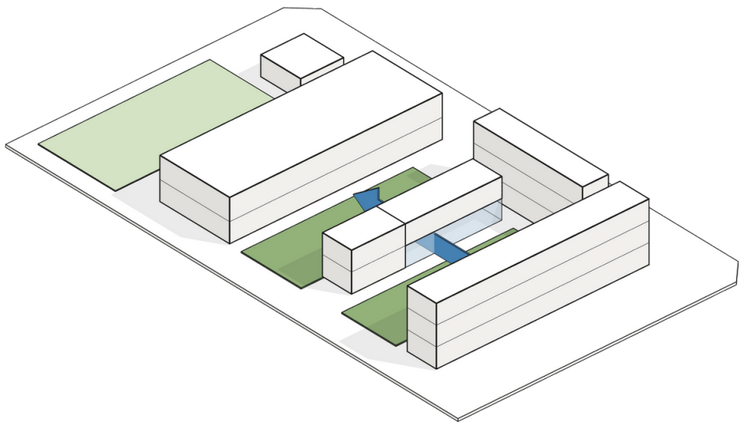
02 Orient the wings

Run the teaching wings east–west to reduce their east and west exposure. Shade the longer north and south elevations.



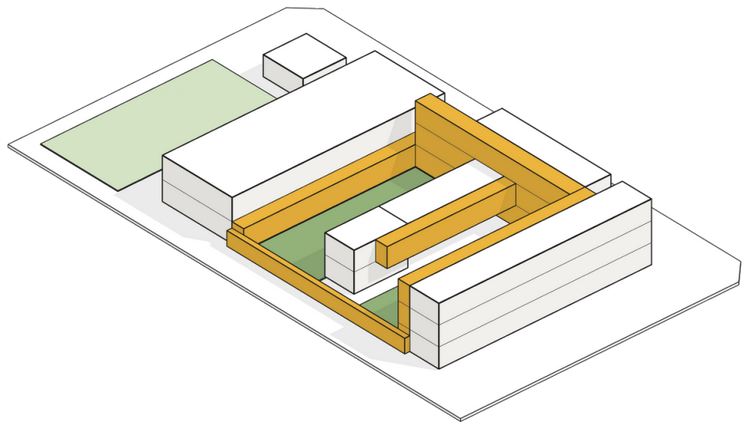
03 Make two laman

Give each courtyard a role: learning and gathering in Laman 1; play and informal activity in Laman 2.



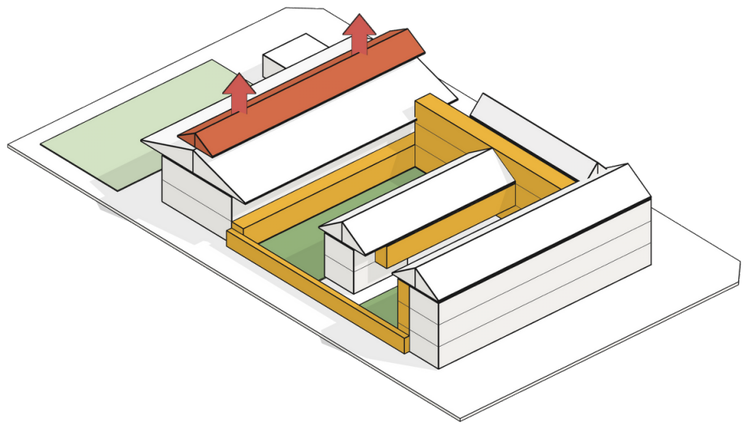
04 Lift the lab wing

Open the kolong beneath part of Bar B. It links the courtyards and creates sheltered space for play and movement.



05 Connect with serambi

Join the verandas, east gallery and west kaki lima as a continuous covered circulation network.



06 Layer the roofs

Use deep eaves and ventilated roof spaces. The hall's two tiers offer a high-level route for warm air to leave.

Programme, floor by floor

Room uses and covered circulation, separated vertically for clarity

SECOND +9.00 m

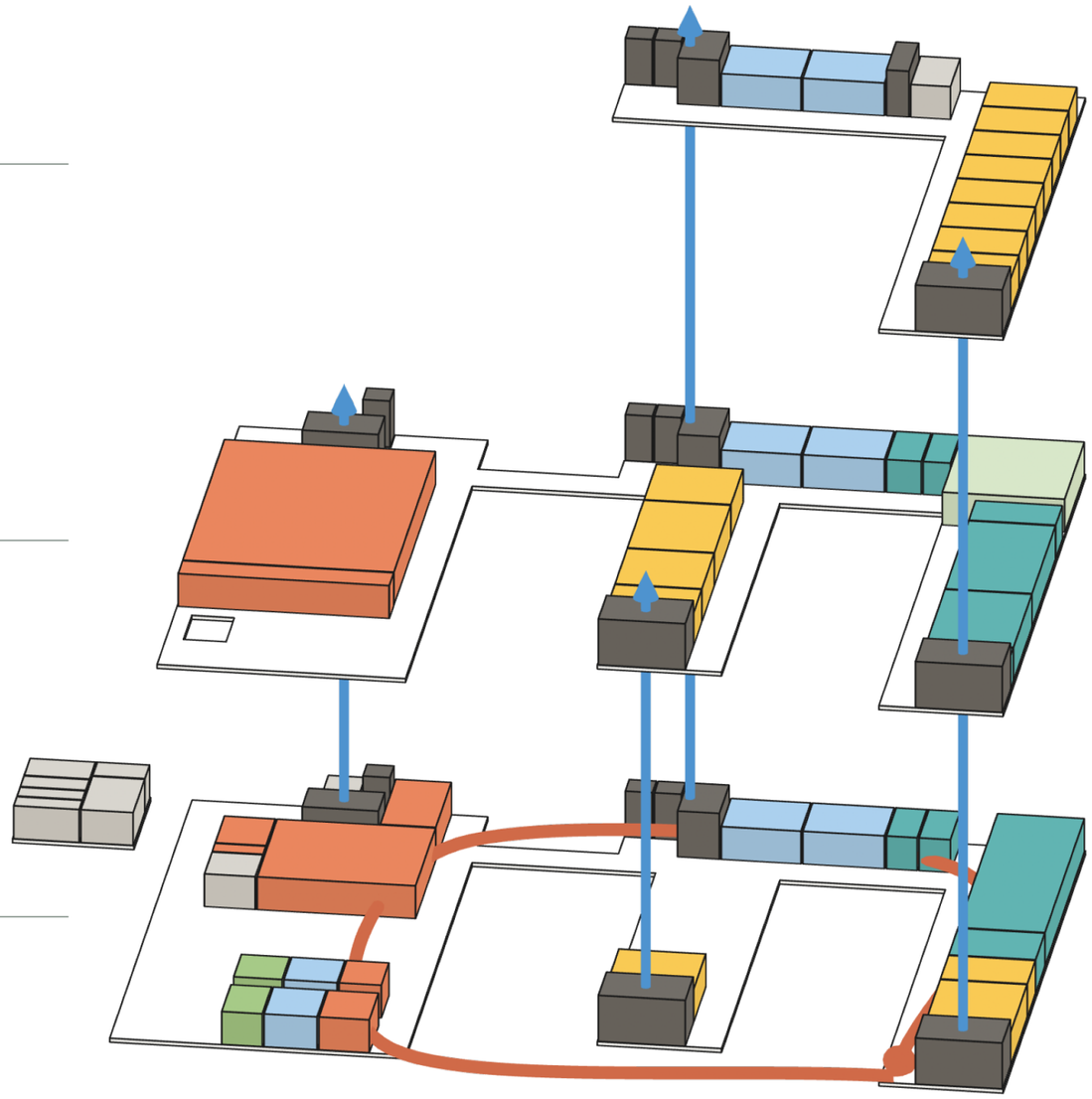
Eight classrooms along Bar A and the learning deck.

FIRST +4.50 m

Staff rooms, science and computer labs, and the multipurpose hall.

GROUND ±0.00 m

Arrival, library, administration, dining and the open kolong.



ROOM USE

- **Learning** — 694 m²
- **Administration / staff** — 649 m²
- **Hall, dining / prayer** — 791 m²
- **Changing rooms** — 41 m²
- **WCs** — 300 m²
- **Services / plant** — 162 m²
- **Stairs, lifts / risers** — 369 m²

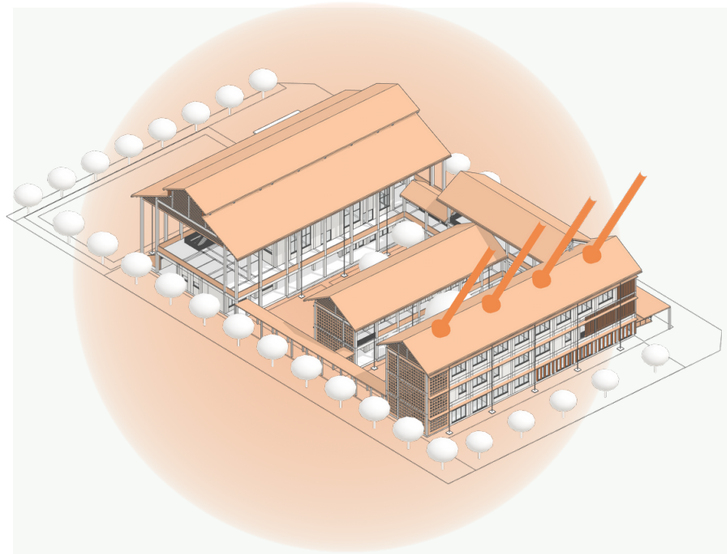
- Covered circulation
- Vertical links

Areas are schematic room footprints, grouped by use; they are not net measured accommodation or GFA.

Floor separation is diagrammatic. Room heights and vertical gaps are exaggerated for legibility.

Shade, breeze, rain, landscape

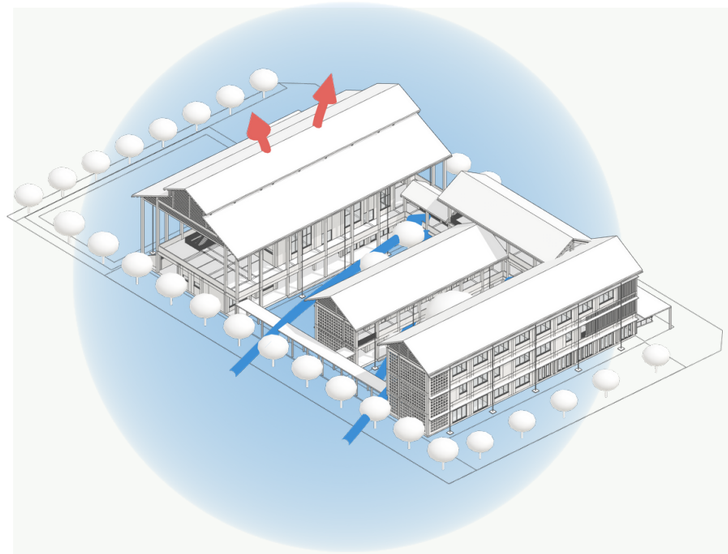
Four design responses to Ipoh's tropical climate



01 SHADE

Reduce solar exposure

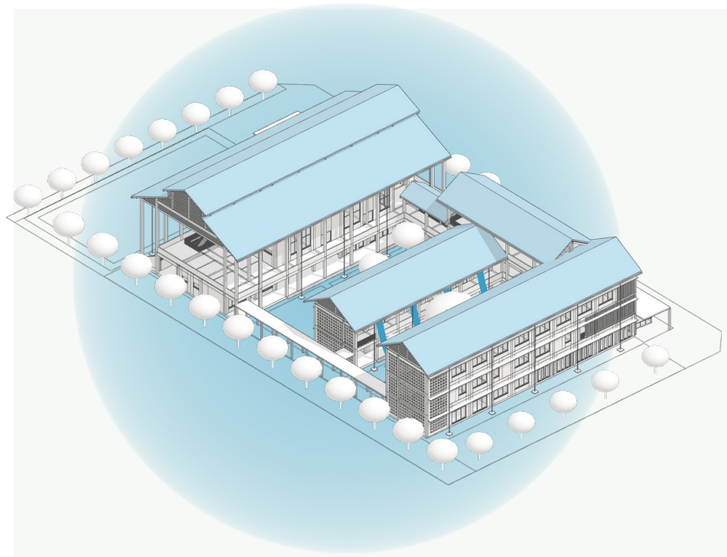
Run the wings east–west so their long elevations face north and south. Use eaves, window shades and kisi screens. A ventilated roof void separates metal roofing from the RC slab.



02 BREEZE

Keep air paths open

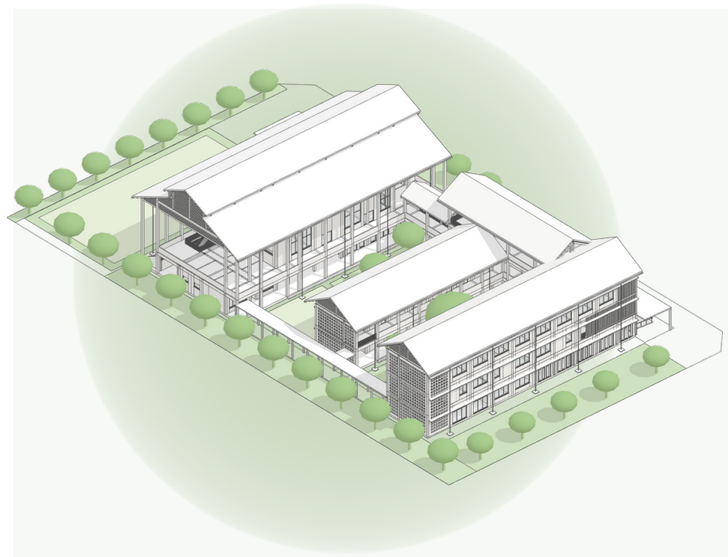
Verandas and high-level louvres offer openings on opposite sides of teaching rooms. The kolong links the courtyards; the hall roof provides a potential warm-air outlet.



03 RAIN

Collect, slow and convey

Gutters and rain chains direct water toward planted rain gardens. The 450 mm plinth raises the ground floor; drainage capacity and flood levels remain to be verified.



04 LANDSCAPE

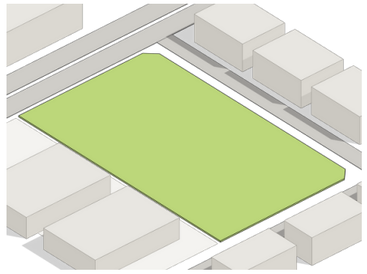
Make shade usable

Place canopy trees at the laman and planted buffers at exposed edges. Retain the padang for sport, with shaded places to sit and learn beside the covered routes.

DESIGN INTENT Arrows show proposed environmental pathways. They are not airflow, thermal or flood simulations.

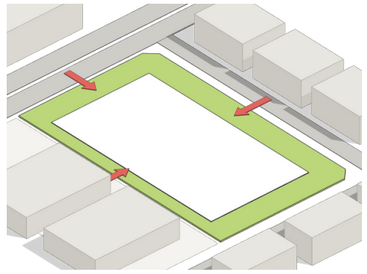
The site becomes a school

Twelve decisions informed by the group site study and developed through the building concept



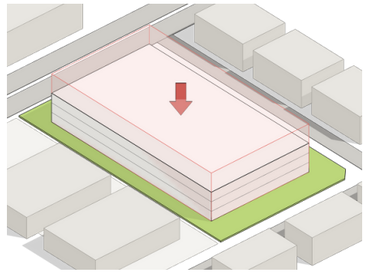
01 Read the lot

Lot 9458: 8,094 m^2 in the group study. Road edges, the western adjoining lot and local streets frame the brief.



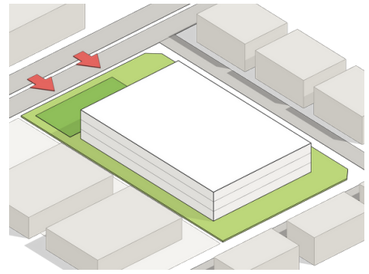
02 Set the envelope

The study records 12.2 m road setbacks and 6.1 m to Lot 9901. Use these as the concept's planning envelope.



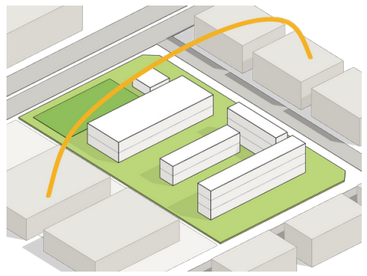
03 Keep the school low

Choose three occupied levels. Plot ratio describes floor-area intensity; it does not prescribe a number of storeys.



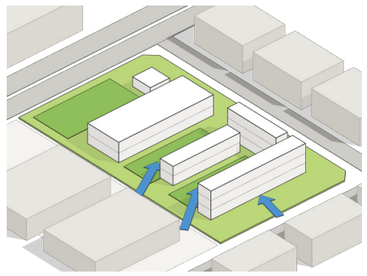
04 Step back from noise

The north road measured 70 dB in the group survey. Put the padang at that edge and teaching spaces farther south.



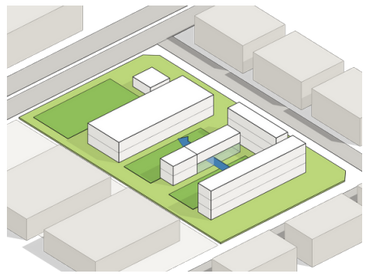
05 Turn the long faces

East–west wings reduce exposure at their ends. Deep eaves and screens address the remaining seasonal sun.



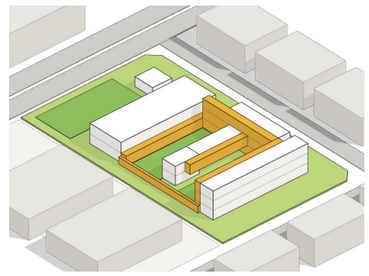
06 Open to the breeze

The study identifies south-west and southerly winds, strongest June–October. Open courtyard gaps toward them.



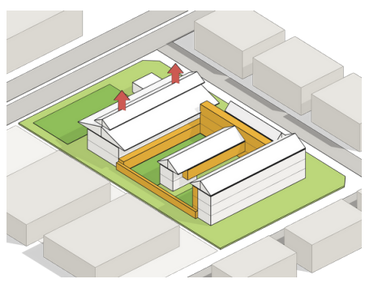
07 Release the kolong

Lift part of the laboratory wing. Maintain a sheltered connection between the two outdoor rooms.



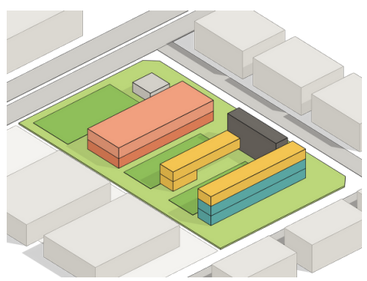
08 Link the serambi

Use verandas and covered links as the school's shared circulation, with places to pause along the route.



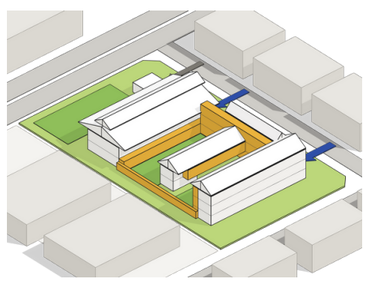
09 Ventilate the roofs

Deep overhangs shelter the perimeter. The hall's two-tier roof expresses its larger communal volume.



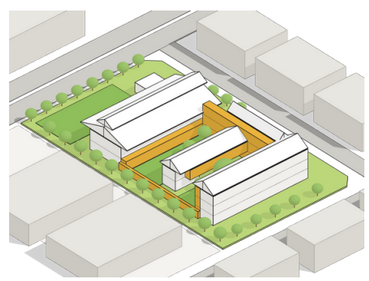
10 Place the programme

Administration faces arrival; classrooms occupy Bar A above; laboratories bridge the kolong; hall and dining anchor the north.



11 Separate arrivals

Bring pupils in from the east drop-off. Keep hall access and the service approach distinct in the north-east.



12 Complete the landscape

Make the laman, shaded edges and padang part of the school's everyday learning and social spaces.

SOURCE Group site study: location, planning, noise, wind and sun-path pages. Massing diagrams are conceptual.

A palette for everyday school life

Malay-house principles, Ipoh's covered streets and a warm, tactile material family



01 Raised house, deep eaves and a welcoming serambi



02 Shutters, timber and filtered light



03 Learning under trees



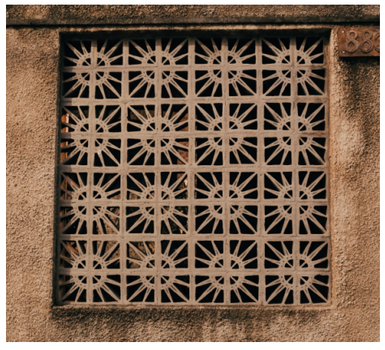
04 The covered street



05 Colour and shared life



06 Light through kisi



07 Privacy with airflow



08 Warm, tactile thresholds



09 Space to linger

COLOUR



Teal



Mustard



Terracotta



Sage

Render

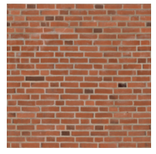


Timber

MATERIAL



Timber



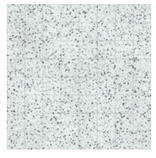
Clay brick



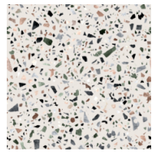
Metal roof



Render



Floor tile



Terrazzo

MOTIF



Wajik diamonds inform the school's graphic accents, noticeboards and joinery.

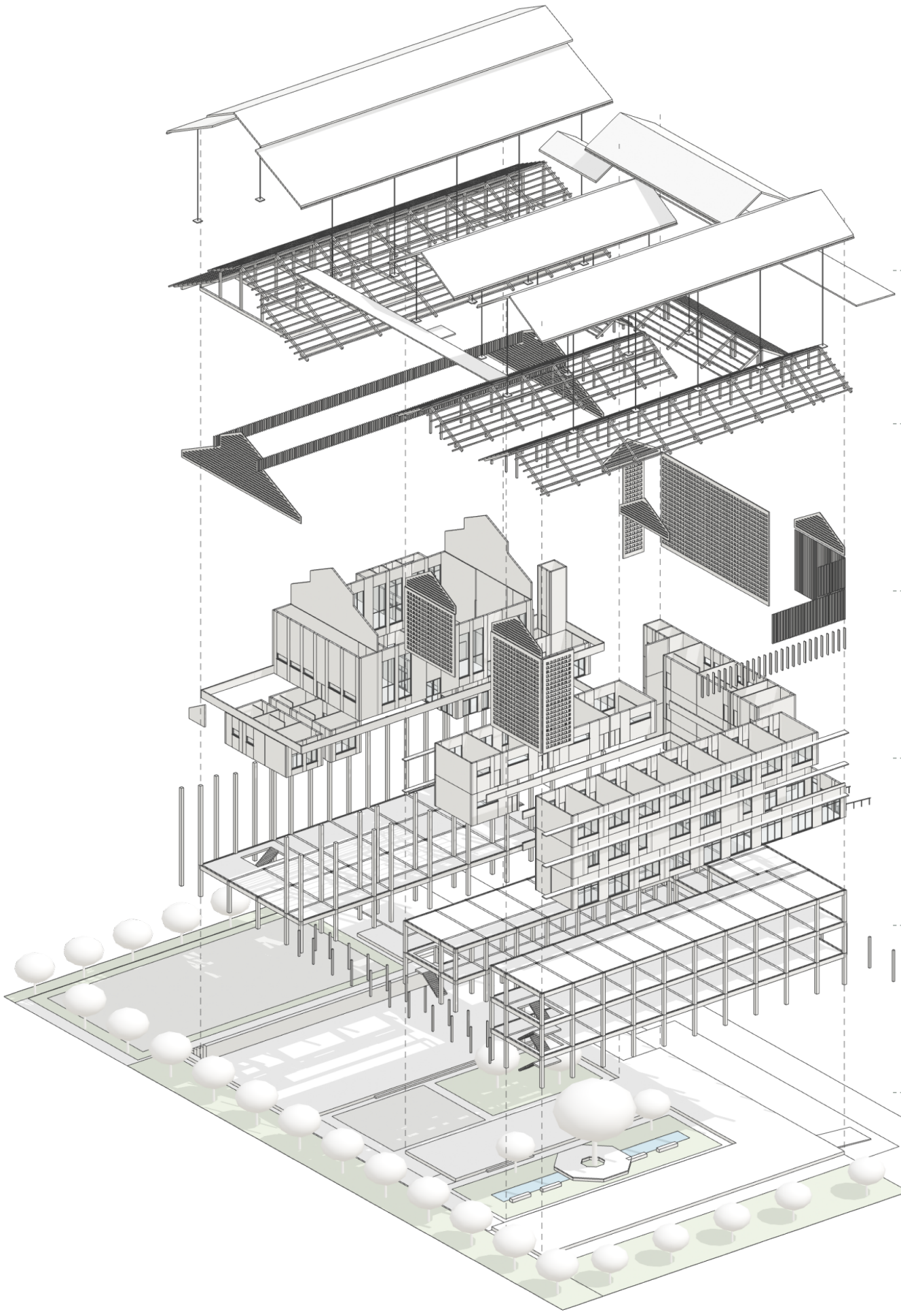
Shade. Breeze. Rain. Play.

REFERENCE IMAGES Pexels / MATERIAL SWATCHES ambientCG, CC0

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One building, six systems

The model separated by construction system



01 Metal roof

Roof sheets, gutters and rain chains. The hall has a two-tier roof.

02 Roof frame

Timber rafters, posts, ridge beams and wall plates, with steel purlins.

03 Screens

Timber kisi, louvred gables and breeze-block screens at the cores.

04 Walls and openings

Rendered walls, glazing, high-level louvres, window shades and parapets.

05 Floors and frame

RC columns, beams and slabs; the stair flights and their landings.

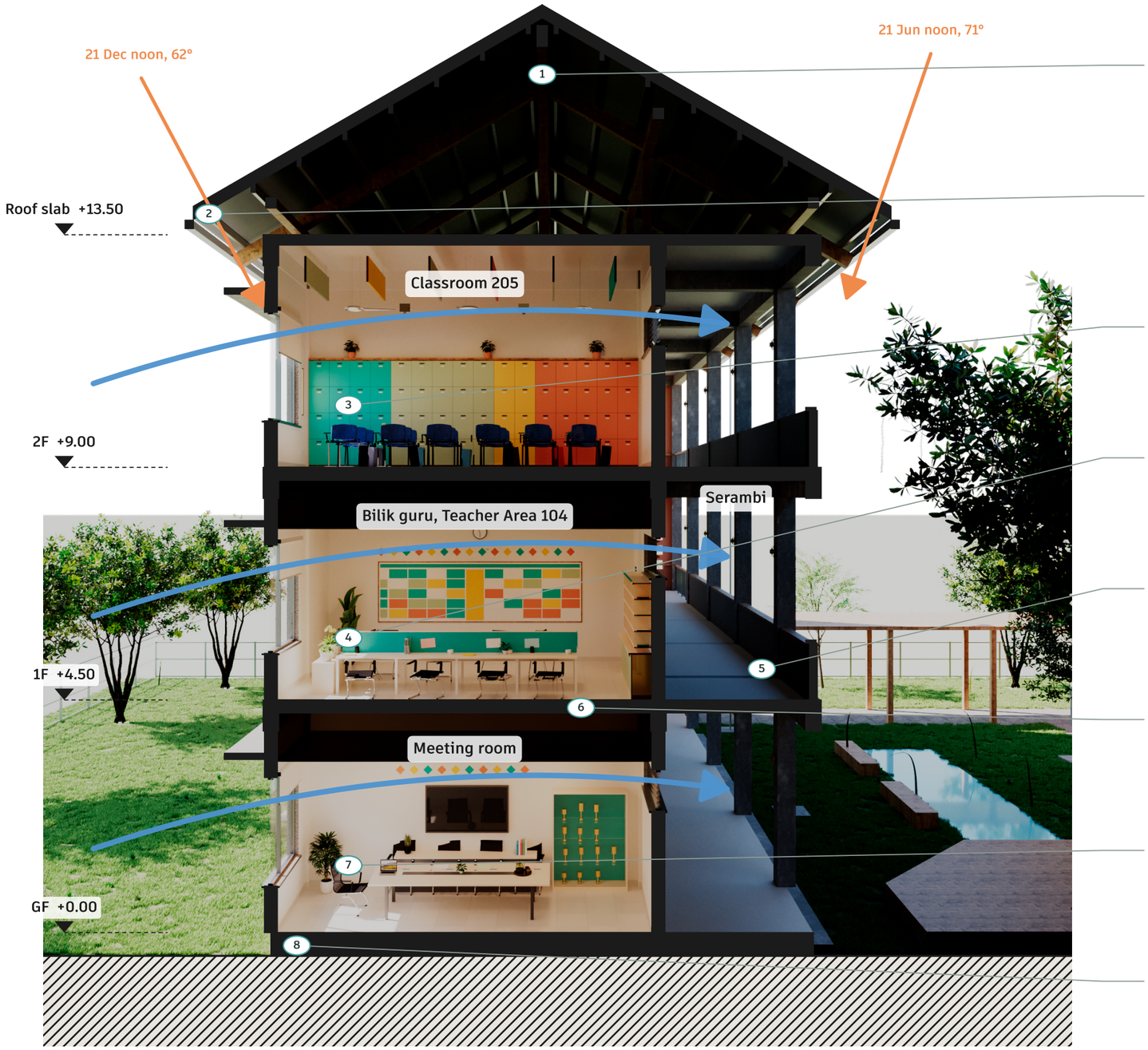
06 Ground and plinth

A 450 mm plinth, courtyard decks, rain gardens, trees and the padang.

MODEL AXONOMETRIC / Vertical separation exaggerated; dense railings omitted for clarity.

Section through Bar A

The classroom upstairs, the teachers' floor below, and the serambi that serves them both



01 Roof

Metal sheets on steel purlins and timber rafters, above a ventilated void and RC roof slab.

02 Eaves and shades

Deep eaves and projecting window shades shelter openings on the exposed faces.

03 Typical classroom

Tablet-arm chairs, school-colour lockers, felt baffles and ceiling fans.

04 Bilik guru

Department desk clusters, timetable board and pigeonhole wall below a gypsum ceiling.

05 Serambi

A covered veranda with high-level louvres, a parapet and timber rail.

06 RC floors

250 mm floor slabs on RC beams. Tiled finishes and skirting.

07 Meeting room

Birch meeting table, display screen, credenza and trophy cabinet.

08 Raised plinth

Ground floor 450 mm above adjacent ground. Flood protection is not verified by this section.