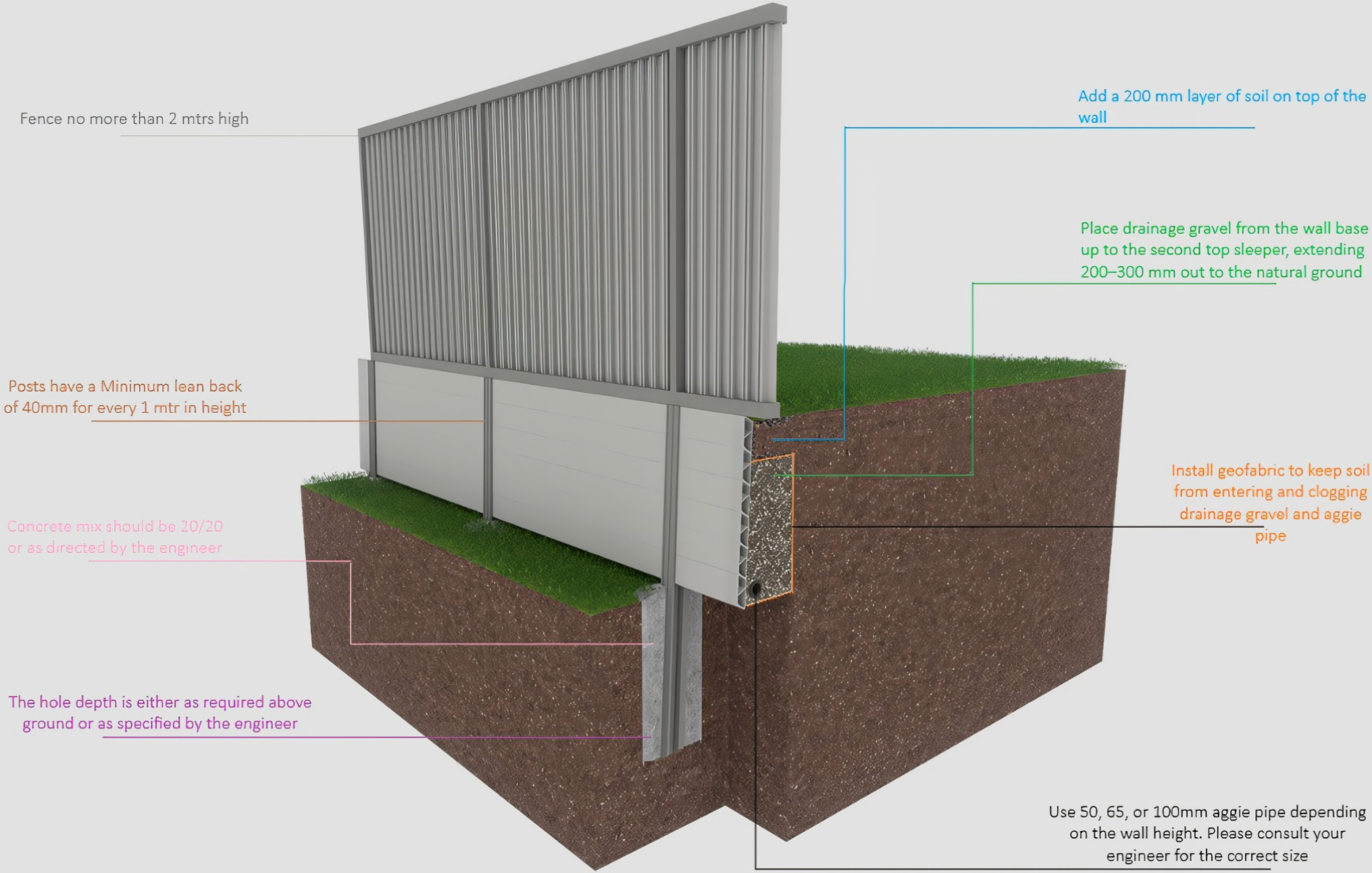

Ezzy Fit composite retaining walls are designed to comply with AS 4678 (Earth Retaining Structures) and AS 3600 (Concrete Structures) to ensure structural integrity and long-term performance. Walls must be constructed with free-draining gravel wrapped in geofabric to mitigate hydrostatic pressure and direct water to an outlet drain, and secured with Ezzy Fit composite C-posts (end posts) and H-posts (intermediate posts), engineered for corrosion resistance, strength, and minimal deflection. Posts must be embedded to the correct depth and spaced according to wall height and loading, with a backward lean of 40 mm per 1 m wall height. The surrounding ground should remain level, and surcharge loads above 5 kPa (e.g., vehicles or driveways) require site-specific engineering. Suitable foundation soil must provide a minimum bearing capacity of 75 kPa for dense sand or gravel and 150 kPa for stiff clay. Proper drainage and post installation are critical to prevent hydrostatic pressure build-up. Excavation or heavy machinery is prohibited within 1.5 m of the wall base or top, and retained slopes must not exceed 1:4 (~14°) unless engineered approval is obtained.