

case study: A Wall with a View

Pisa2®



project details

wall system	owner	engineering	manufacturer	installer
Pisa2 with Geogrid Reinforcement	Private Residence	PS Tan, Risi Stone Systems (M) Sdn. Bhd. Kuala Lumpur, Malaysia	Risi Stone Systems (M) Sdn Bhd Kuala Lumpur, Malaysia	KG Construction Kuala Lumpur, Malaysia

>> High Wall



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The owner's house was situated on the higher reaches of a steep hill, and the wall was to be constructed in order to build a small playground and garden at the back of this luxury home. The colour scheme chosen was a natural-looking blend of yellow and red, accentuating the verdant surroundings. This was the highest Pisa2 wall supplied to date by Risi Stone Systems (M) Sdn Bhd.

There was no access to the site for machinery of any sort since the house lies between the road and the construction site. All materials had to be lifted in and out by crane, and the only way to crane in sand, cement, and blocks was to hoist them over the house! Due to the inaccessibility of the wall face once completed, anti-fungal sealants had to be applied after every two courses.

After the site was excavated, a concrete pad was poured for the base. During installation, the backfill was compacted every three courses. Every second day, sand was craned in from outside for the backfill. Geogrids were cut long and flipped over every three courses and inserted back into the wall in order to enhance the grip of the grid and to ensure the backfill did not move. Drainage was an important consideration in this project, and was addressed by constructing two vertical drains on each side of the wall.

Upon completion of the project, the owner had gained a spacious backyard and patio with a panoramic view. From the lower approach road, the wall is striking; its earth tones blending in beautifully with the surrounding greenery.



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