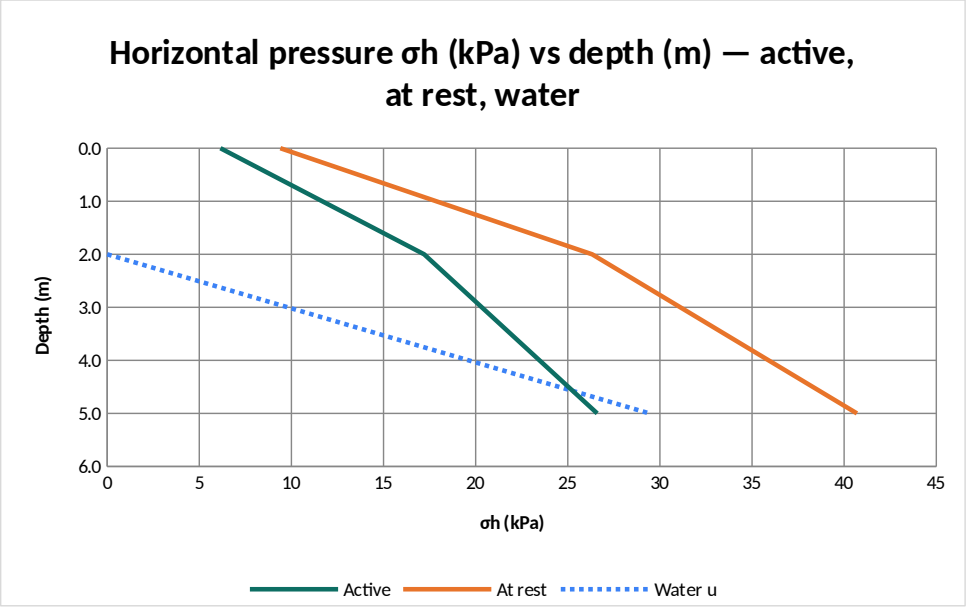
Lateral Earth Pressure Report | گزارش فشار جانبی خاک

Generated from sheet Pressure · RastaWorks

Project / پروژه	Sample Project
Location – Section / محل	Basement wall W-2
Depth (m) / عمق	H = 5 m
Date / تاریخ	2026-11-01
Prepared by	Engineer

Quantity / کمیت	Value / مقدار	Unit	Quantity / کمیت	Value	Unit
Wall height H	**5.00**	m	**Water-table depth**	**2.00**	m
Surcharge q	**20.0**	kPa	**Layer 1: φ' / c'**	**32.0 / 0.0**	deg / kPa
Ka / K0 / Kp (layer 1)	**0.307 / 0.470 / 3.255**	–	**Ka Coulomb (layer 1)**	**0.275**	–
Active total thrust	**133.2**	kN/m	**Active ȳ above base**	**1.69**	m
At-rest total thrust	**180.4**	kN/m	**At-rest ȳ above base**	**1.78**	m
Water thrust	**44.1**	kN/m	**Passive thrust (same profile)**	**943.4**	kN/m

Active: wall free to move · At rest: wall restrained · Passive thrust is listed in the table (not plotted).



Notes: Rankine pressures on a vertical smooth wall with level backfill; static groundwater on the retained side only; no compaction, seismic or seepage effects. Review by a qualified geotechnical engineer is required before design use. / ملاحظات: مرور توسط مهندس ژئوتکنیک الزامی است.