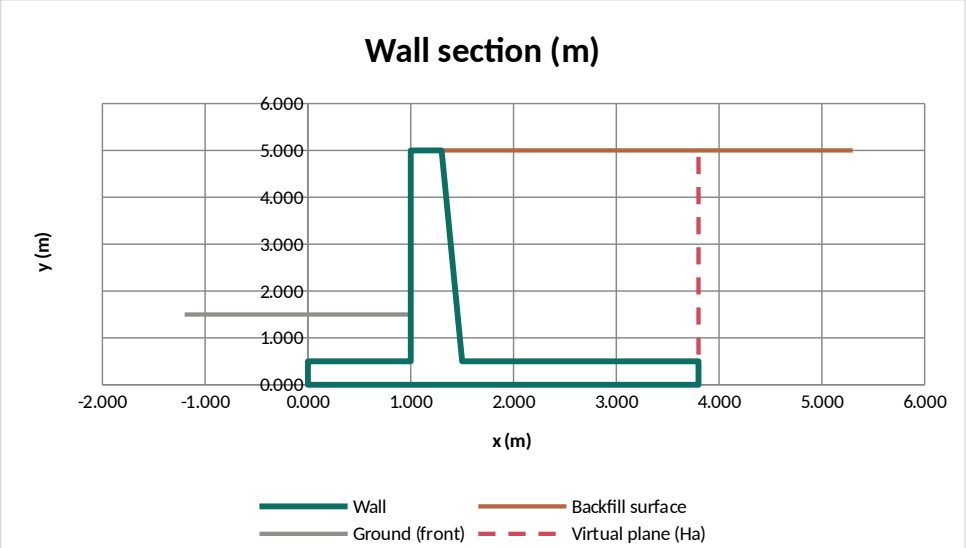
Retaining Wall Stability Report | گزارش پایداری دیوار حائل

Generated from sheet Wall · RastaWorks

Project / پروژه	Sample Project
Location – Section / محل	Wall W-1, Section 0+120
Depth (m) / عمق	H = 4.5 m
Date / تاریخ	2026-10-27
Prepared by	Engineer

Quantity / کمیت	Value / مقدار	Unit	Quantity / کمیت	Value	Unit
Wall H × B	**4.50 × 3.80**	m	**Ka / Kp**	**0.333 / 3.000**	–
Σ vertical load	**305.4**	kN/m	**Σ horizontal thrust**	**91.7**	kN/m
FS overturning	**4.05**	≥ req.	**FS sliding**	**1.55**	≥ req.
Eccentricity e	**0.237**	m (limit B/6)	**q_max / q_min**	**110.4 / 50.3**	kPa
q_all	**200**	kPa	**Overall**	**ALL CHECKS PASS**	–

Required: FS overturning ≥ 2.00, FS sliding ≥ 1.50, e ≤ B/6, q_max ≤ q_all.



Notes: Rankine active pressure on a vertical plane through the heel; drained cohesionless backfill without groundwater; seismic loads, global stability, settlement and structural design are not covered. Review by a qualified geotechnical engineer is required.
نتایج باید توسط مهندس ژئوتکنیک ذی‌صلاح بازبینی شود.