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It is part of the following data publication and should be cited as:

Willingshofer, Ernst; Rosenau, Matthias (2024): Ring-shear test data of quartz sand SIBELCO S80 used for analogue modelling in the Tectonic Laboratory (TecLab) at Utrecht University. GFZ Data Services. <https://doi.org/10.5880/fidgeo.2025.024>

ZIP folder	File name	File format	Content
	2025-024_Willingshofer-Rosenau_DoD	.pdf	Description of data and methods
	2025-024_Willingshofer-Rosenau_LoF	.pdf	List of files
2025-024_Willingshofer-Rosenau_RSTdata	577-01-01.tdms	.tdms	Binary RST raw data measured by the compactRIO. Each file represents one measurement at a constant normal stress. The files contain all four measured channels in a folder like file structure including additional properties. See ni.com for more details.
	577-01-02.tdms	.tdms	
	577-01-03.tdms	.tdms	
	577-01-04.tdms	.tdms	
	577-01-05.tdms	.tdms	
	577-01-06.tdms	.tdms	
	577-01-07.tdms	.tdms	
	577-01-08.tdms	.tdms	
	577-01-09.tdms	.tdms	
	577-01-10.tdms	.tdms	
	577-01-11.tdms	.tdms	
	577-01-12.tdms	.tdms	
	577-01-13.tdms	.tdms	
	577-01-14.tdms	.tdms	
	577-01-15.tdms	.tdms	
	577-01-16.tdms	.tdms	
	577-01-17.tdms	.tdms	
	577-01-18.tdms	.tdms	
	577-01_VST.tdms	.tdms	VST raw data
2025-024_Willingshofer-Rosenau_RSTproducts	577-01_dynamic	.txt	Pairs of normal stress and corresponding shear strength for dynamic friction
	577-01_fricmut	.txt	Results of the mutual linear regression analysis
	577-01_fricstd	.txt	Results of the linear least-squares method
	577-01_hist	.pdf	Histograms of friction coefficients and cohesions
	577-01_linregr	.pdf	Mohr plot of friction data
	577-01_peak	.txt	Pairs of normal stress and corresponding shear strength for peak friction
	577-01_reactivation	.txt	Pairs of normal stress and corresponding shear strength for reactivation friction
	577-01_ts	.pdf	Visualization of time series data (shear curves): Shear stress vs. displacement for 18 measurements
	577-01_ts	.txt	Table of time series data for 18 measurements of shear stress (Pa, columns 2-19) at given normal stresses (Pa, first cell in each column) vs. time (column 1)
	577-01_VST	.pdf	Visualization of the VST data