PRISMA 2020 Checklist – Supplementary Material S1 (Final Version)

Title of the manuscript: Roller-Compacted Concrete for Pavements: A Critical Review of Its Structural Design, Construction, Monitoring, and Applications

Journal: Infrastructures (MDPI)

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Section and Topic	Item #	Checklist item	Location where item is reported
TITLE	1	Identify the report as a systematic review.	Title, Page 1
ABSTRACT	2	See the PRISMA 2020 for Abstracts checklist.	Abstract, Page 1
INTRODUCTION	3	Describe the rationale for the review in the context of existing knowledge.	Section 1
INTRODUCTION	4	Provide an explicit statement of the objective(s) the review addresses.	Section 1
METHODS	5	Specify the inclusion and exclusion criteria and how studies were grouped.	Section 2.1
METHODS	6	Specify all databases, registers, and sources consulted.	Section 2.1
METHODS	7	Present full search strategies, filters, and limits.	Section 2.1
METHODS	8	Specify methods to decide study inclusion.	Section 2.1
METHODS	9	Specify methods for data extraction.	Section 2.3
METHODS	10a	List and define all outcomes for which data were sought.	Section 2.3
METHODS	10b	List and define other variables sought.	Section 2.3
METHODS	11	Specify methods to assess risk of bias.	Not formally applied – qualitative

Section and Topic	Item #	Checklist item	Location where item is reported
			classification.
METHODS	12	Effect measures for each outcome.	Not applicable – no quantitative synthesis.
METHODS	13a	Decide eligibility for each synthesis.	Sections 2.2 and 2.3
METHODS	13b	Methods to prepare data for synthesis.	Section 2.3
METHODS	13c	Methods to tabulate or display results.	Sections 3–7
METHODS	13d	Methods used to synthesize results.	Narrative synthesis – Section 2
METHODS	13e	Methods to explore heterogeneity.	Not applicable
METHODS	13f	Sensitivity analyses conducted.	Not applicable
METHODS	14	Assess risk of bias due to missing results.	Not applicable
METHODS	15	Assess certainty in evidence.	Not applicable
RESULTS	16a	Results of selection process.	Section 2.1; Figure 1
RESULTS	16b	Studies excluded and reasons.	Section 2.1; Figure 1
RESULTS	17	Cite included studies and characteristics.	Sections 3–7
RESULTS	18	Risk of bias assessments.	See Item 11
RESULTS	19	Summary statistics for outcomes.	Not applicable
RESULTS	20a	Synthesis results with risk of bias.	Not applicable
RESULTS	20b	Results of statistical syntheses.	Not applicable
RESULTS	20c	Heterogeneity investigations.	Not applicable
RESULTS	20d	Sensitivity analyses results.	Not applicable
RESULTS	21	Assessments of missing result bias.	Not applicable
RESULTS	22	Assessments of evidence certainty.	Not applicable
DISCUSSION	23a	General interpretation of results.	Section 8
DISCUSSION	23b	Limitations of included evidence.	Section 8
DISCUSSION	23c	Limitations of review	Section 8

Section and Topic	Item #	Checklist item	Location where item is reported
		processes.	
DISCUSSION	23d	Implications for practice/policy/future research.	Section 9
OTHER	24a	Provide review registration info.	Not registered
OTHER	24b	Indicate protocol access.	No protocol prepared
OTHER	24c	Explain protocol amendments.	Not applicable
OTHER	25	Sources of support/funding.	Acknowledgments
OTHER	26	Declare competing interests.	No conflict of interest
OTHER	27	Availability of data, code, materials.	Not applicable