Sprung Structures

Fair Oaks Farms

Life Cycle Assessment Results

PRIOPTA

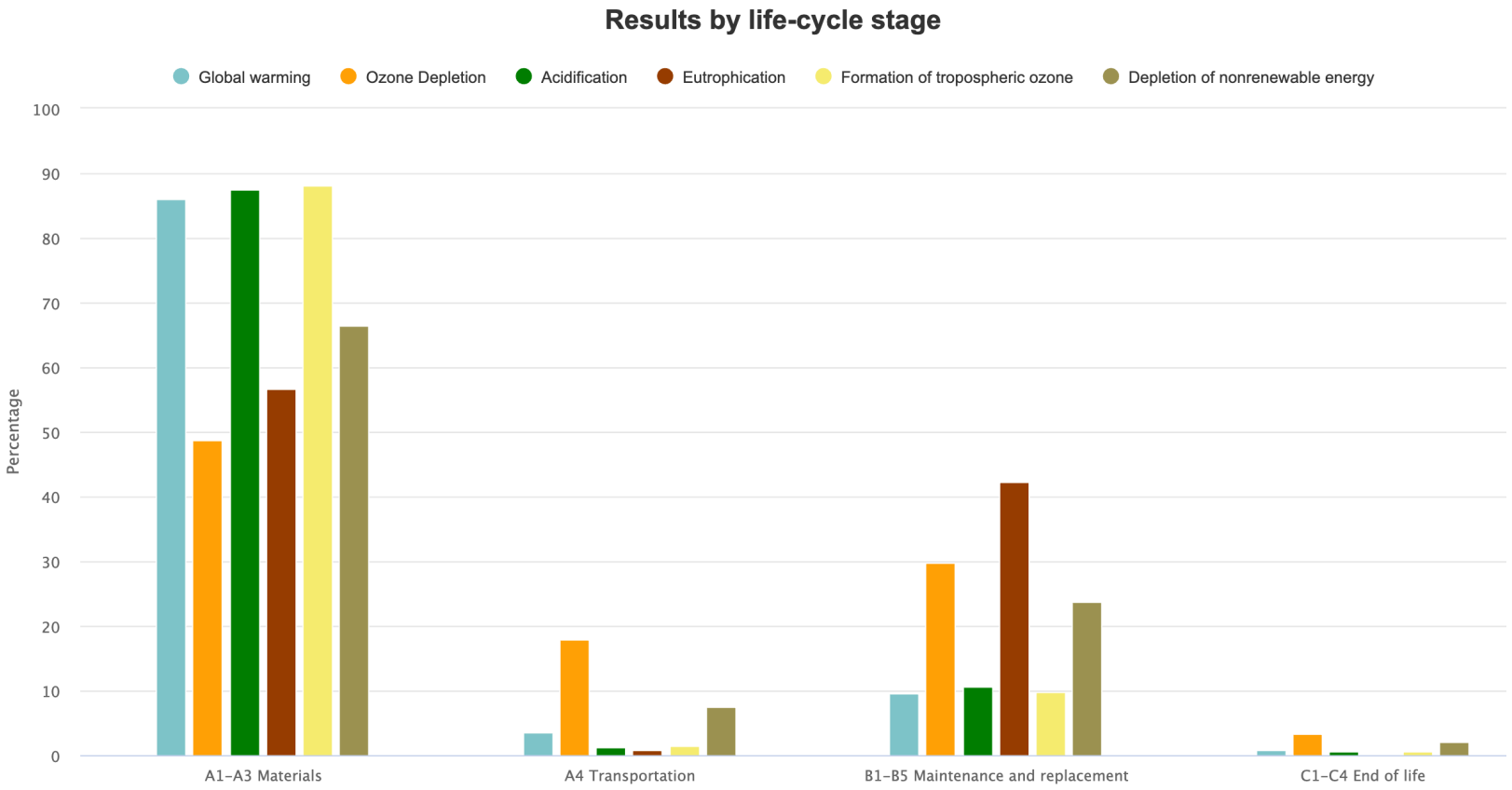
Life Cycle Assessment (LCA) Results

Whole-building Life Cycle Assessment, ISO 14040 & ISO 14044 (TRACI 2.1.)

	Result category	Global warming kg CO_2e	Ozone Depletion kg CFC11e	Acidification kg SO2e	Eutrophication kg Ne	Formation of tropospheric ozone kg O3e	Depletion of nonrenewable energy MJ	Biogenic carbon storage kg CO_2e bio	
A1-A3	Construction Materials	221,721.91	0.01	1,103.01	443.14	12,935.04	1,221,288.25	0	Details
A4	Transportation to site	9,096.14	0	15.52	6.32	217.71	139,618.65		Details
B1-B5	Maintenance and material replacement	24,897.41	0	134.17	331.58	1,449.54	438,336.34		Details
C1-C4	End of life	1,982.36	0	7.45	1.77	89.24	40,006.65		Details
	Total	**257,697.82**	**0.01**	**1,260.15**	**782.8**	**14,691.54**	**1,839,249.89**	**0**	
	Results per denominator								
	Gross Internal Floor Area (IPMS/RICS) 975.48 m2	264.18	0	1.29	0.8	15.06	1,885.48	0	

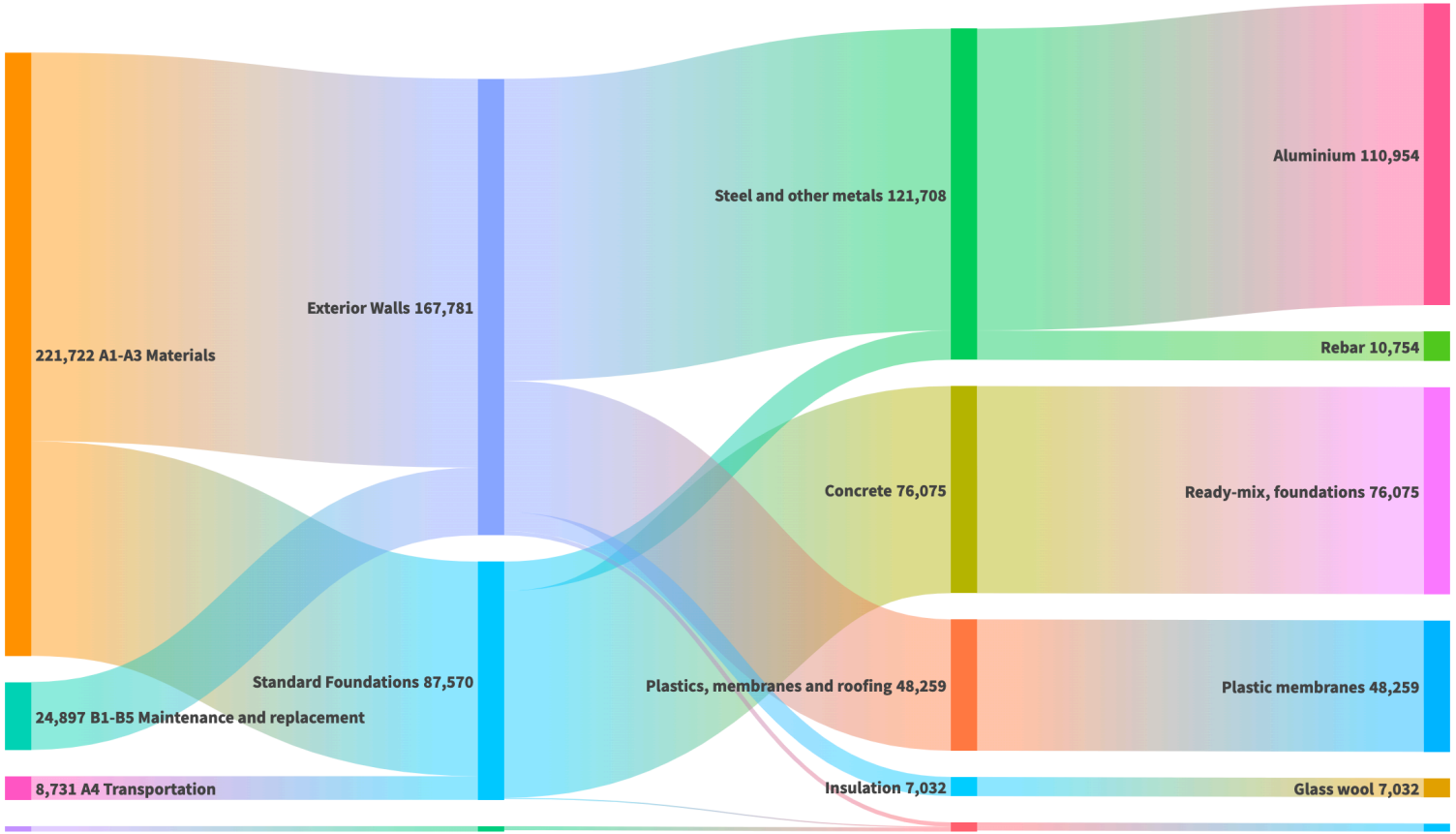
Please note. The following LCA or EPD standards are all fully compliant with the requirements of ISO 14044: ISO 14025, ISO 21930, EN15804. Assessment period fixed to 60 years.

LCA Results by Life Cycle Stage

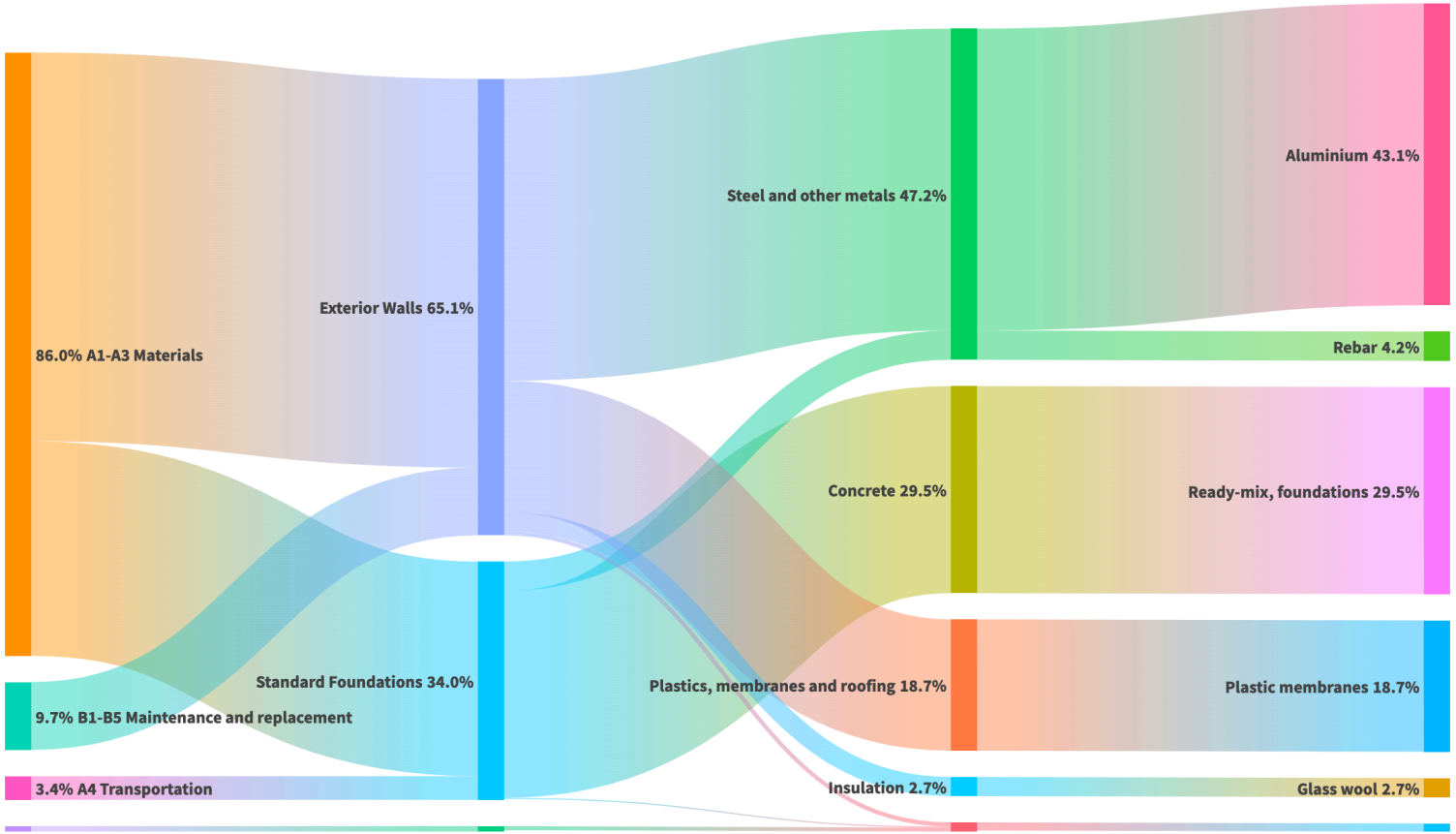


Global Warming Potential - Total

257,698 kg CO2e

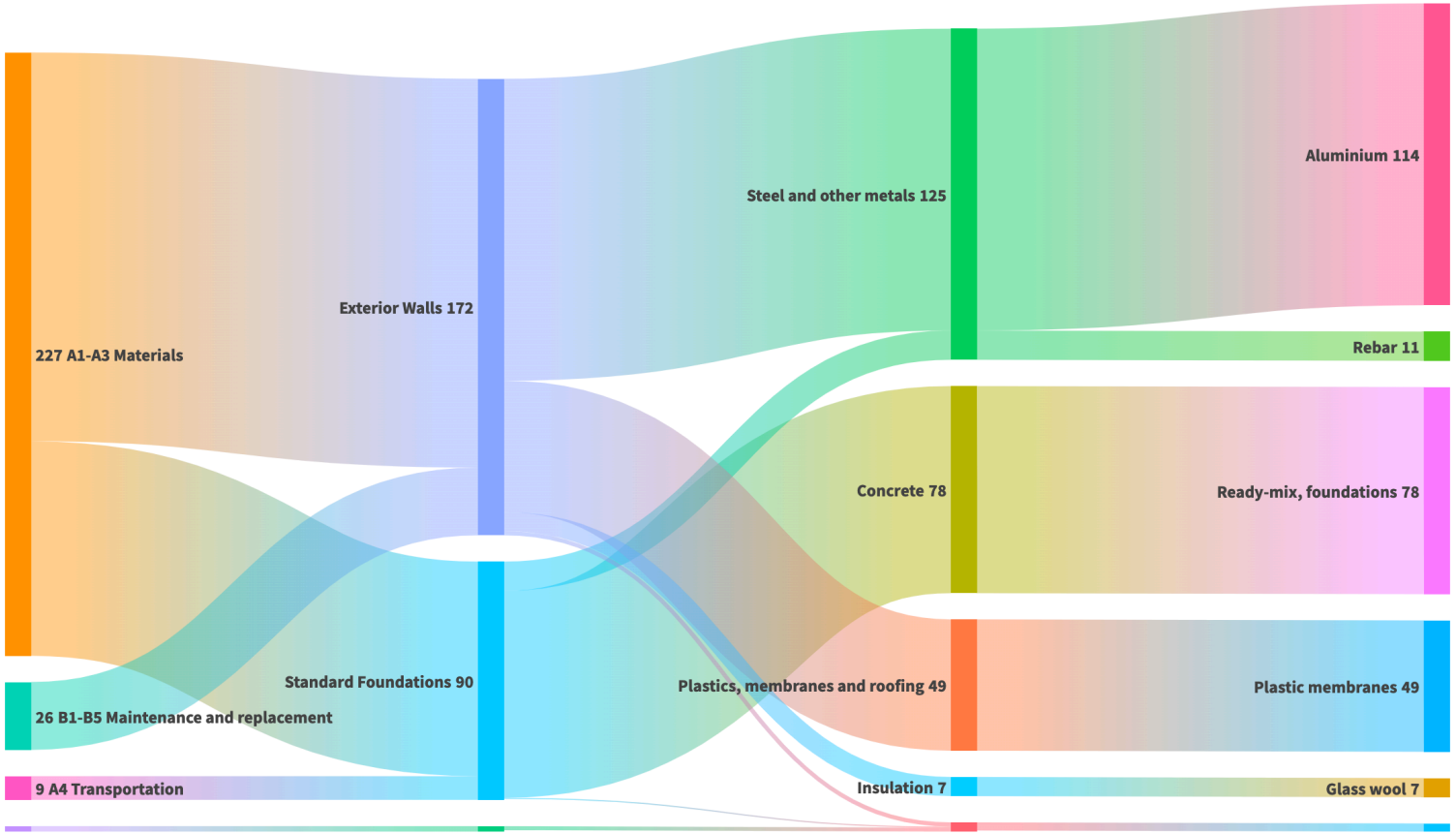


Global Warming Potential - Percentage (%)



Global Warming Potential - Intensity

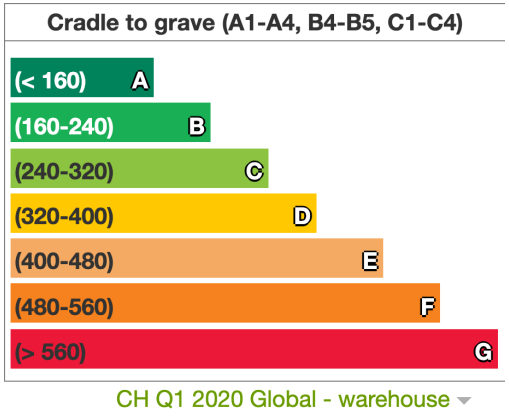
264 $kgCO2_e/m^2$



Comparison with Embodied Carbon Benchmarks

264 $kgCO2_e/m^2$

Warehouse

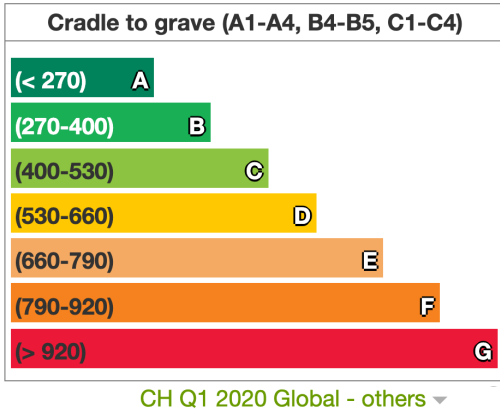


CH Q1 2020 Global - warehouse

Source information

Retained sample size : 82 projects. Data predominantly from Western Europe (56 projects). Data is included into the benchmarks based on mechanical and manual screening that considers consistency, completeness and plausibility. Projects that display aberrant values or inconsistency have been excluded from sample.

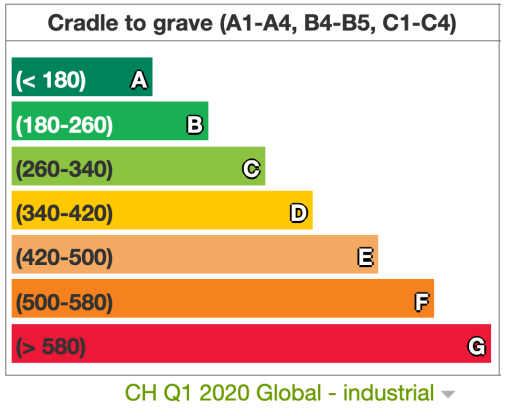
Others



CH Q1 2020 Global - others

Retained sample size : 26 projects. Data predominantly from Western Europe (14 projects). Data is included into the benchmarks based on mechanical and manual screening that considers consistency, completeness and plausibility. Projects that display aberrant values or inconsistency have been excluded from sample.

Industrial



CH Q1 2020 Global - industrial

Retained sample size : 25 projects. Data predominantly from Western Europe (19 projects). Data is included into the benchmarks based on mechanical and manual screening that considers consistency, completeness and plausibility. Projects that display aberrant values or inconsistency have been excluded from sample.

Source: [One Click LCA – Carbon Heroes Benchmark Program]