

Summary

	KPI	2020 Target	Metric	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Management systems for continual improvement	No of sites with 14001	100% coverage all production sites	%	89.47	89.47	100	100	100	100	100	100	100	100
	No of sites with 9001	100% coverage at all sites	%	100	100	100	100	100	100	100	100	100	100
	No of sites with 18001	100% coverage at all sites	%	0	0	100	100	100	100	100	94	94	100
	Responsible sourcing (BES 6001)	Responsible sourcing for all production sites	%	94	94	94	94	94	94	94	100	100	100
	No of sites ISO 50001	100% coverage at all sites	%	0	0	0	0	0	100	100	100	100	100
Creating sustainable communities	Health and safety LTI	LTI frequency rate - no target	Number (employees only)	4.60	4.09	3.62	2.55	3.40	3.10	1.52	2.10	3.40	7.1
	Local community	Ensure all relevant sites are proactive in liaising with their local communities	%	63	75	100	71	63	88	88	63	63	75
Climate change and energy	Energy efficiency	Reduce energy consumption per tonne by 10% by end 2020 (2010 baseline)	Kwh/tonne	382.82	367.52	370.29	346.52	346.65	354.29	351.95	334.21	366.81	368.01
	CO ₂ from production and transport	Reduce CO ₂ emissions by 10% per tonne by end of 2020 (2010 baseline)	Kg CO ₂ /tonne	161.32	149.34	140.51	143.28	147.21	145.00	148.24	134.16	136.04	132.58
	CO ₂ from transport	Reduce fuel usage by 3% per km by end of 2020 (2014 baseline)	Kg CO ₂ /tonne	38.91	61.92	47.99	37.28	35.48	36.44	36.30	36.50	37.56	37.65
Sustainable consumption and production	Environmental incidents and emissions	100% compliance with legislation	Number Complaints	8	6	1	5	10	7	20	7	16	6
			Number Incidents	24	15	26	35	11	34	133	128	167	77
			Number of Prosecutions	0	0	0	0	0	0	0	0	0	0
	Waste	Reduce waste to landfill by 85% by the end of 2020 based on 2010 baseline	Kg/tonne	1.92	0.39	0.37	0.68	0.37	0.37	0.44	0.71	0.39	0.16
	Replacement materials	Increase recycled aggregate in concrete products	%	55.51	54.34	50.73	62.08	55.49	49.65	49.48	55.00	60.09	TBC
Optimise the amount of cement replacement used in concrete products		%	11.19	11.05	9.48	9.21	4.87	4.39	3.96	6.80	9.76	TBC	
Natural resources and enhancing the environment	Water	All business lines to reduce mains water consumption per tonne produced by 25% by the end of 2020 based on 2010 baseline	litres/tonne	191.16	197.96	181.06	150.05	152.43	146.38	127.15	120.61	125.05	111.12
		No target for total water consumption set	litres/tonne	267.48	275.72	269.03	241.68	230.03	222.13	201.10	190.56	190.37	168.52

Energy Consumption - kilowatt hours per tonne

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change since 2010	% change since 2018
Forterra	382.82	367.52	370.29	346.52	346.65	354.29	351.95	334.21	366.81	368.01	-3.9%	0.3%
Bricks	704.92	689.01	687.69	700.61	637.41	644.49	661.23	651.40	678.49	693.08	-1.7%	2.2%
Aircrete Blocks	226.00	227.03	231.81	197.57	195.90	180.64	201.63	205.35	199.46	185.36	-18.0%	-7.1%
Blocks	14.96	13.07	12.44	13.27	13.53	12.90	11.39	10.42	11.42	11.65	-22.1%	2.0%
Bison Precast	45.65	36.63	31.92	29.08	31.01	25.25	23.49	28.25	46.57	43.26	-5.2%	-7.1%

Kilograms of CO₂ per tonne of production

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change since 2010	% change since 2018
Forterra	161.32	149.34	140.51	143.28	147.21	145.00	148.24	134.16	136.04	132.58	-17.8%	-2.55%
Bricks	323.31	308.18	285.86	314.14	292.04	281.32	301.34	286.89	269.43	266.40	-17.6%	-1.12%
Aircrete Blocks	53.35	50.84	51.96	49.41	49.48	45.40	49.03	47.47	44.51	40.41	-24.3%	-9.21%
Blocks	6.02	5.31	5.17	4.85	5.29	4.85	4.07	3.32	3.08	2.92	-51.5%	-5.12%
Bison Precast	20.29	16.28	14.27	12.62	14.13	11.34	9.94	9.48	13.21	11.55	-43.1%	-12.55%

Transport Fuel Usage litres / 100Km

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change since 2014	% change since 2018
Forterra	38.91	61.92	47.99	37.28	35.48	36.44	36.30	36.50	37.56	37.65	6.1%	0.23%

Mains Water Consumption - litres per tonne

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% Change since 2010	% Change since 2018
Forterra	191.16	197.96	181.06	150.05	152.43	146.38	127.15	120.61	125.05	111.12	-42%	-11%
Bricks	147.99	154.51	160.88	132.79	106.95	102.85	110.14	88.78	101.20	62.56	-58%	-38%
Aircrete Blocks	513.10	483.01	406.97	349.49	405.69	405.30	326.11	321.22	313.25	287.68	-44%	-8%
Blocks	43.27	53.98	57.17	50.64	43.80	49.05	45.45	48.17	46.12	46.74	8%	1%
Bison Precast	34.74	36.13	22.89	27.33	28.98	26.16	32.34	61.06	102.61	105.61	204%	3%

Total Water Consumption - litres per tonne

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% Change since 2010	% Change since 2018
Forterra	267.48	275.72	269.03	241.68	230.03	222.13	201.10	190.56	190.37	168.52	-37%	-11%
Bricks	171.82	166.99	171.95	153.80	120.43	116.58	122.11	100.53	114.04	68.74	-60%	-40%
Aircrete Blocks	775.79	755.03	724.34	676.48	700.48	711.36	654.62	630.37	626.22	540.46	-30%	-14%
Blocks	43.27	53.98	57.17	50.64	43.80	49.05	45.45	48.17	46.12	46.74	8%	1%
Bison Precast	116.80	102.27	80.49	84.55	73.26	71.18	70.17	92.84	122.81	132.19	13%	8%

Site Stewardship

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Quarries	9	9	9	9	9	9	9	9	9	9
Quarries with restoration plans	9	9	9	9	9	9	9	9	9	9
Quarries with BAPS and/or GAPS	1	1	3	3	5	5	5	5	5	5
Quarries with BAPS	1	1	2	3	5	5	5	5	5	5
Quarries with high biodiversity value	3	3	3	3	3	3	3	3	3	3
Quarries with high biodiversity value and BAPS	1	1	2	3	3	3	3	3	3	3
Total BAPS and GAPS	2	2	4	5	7	7	7	7	7	7

Community Relations

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Relevant Sites	8	8	7	7	8	8	8	8	8	8
Site with Liaison Activity	5	6	7	5	5	7	7	5	5	6
% Site with Liaison Activity	63	75	100	71	62.5	87.5	87.5	63	63	75
Visitor Numbers	401	3041	2227	2583	2676	4154	4807	6252	6127	tbc

Environmental Incidents, Complaints and Prosecutions

	2010			2016			2017			2018			2019		
	Incidents	Complaints	Prosecutions	Incidents	Complaints	Prosecutions	Incidents	Complaints	Prosecutions	Incidents	Complaints	Prosecutions	Incidents	Complaints	Prosecutions
Forterra	24	8	0	133	20	0	128	7	0	167	16	0	77	6	0
Bricks	14	7	0	80	18	0	61	4	0	47	15	0	15	6	0
Aircrete Blocks	1	1	0	44	2	0	55	1	0	98	0	0	23	0	0
Blocks	2	0	0	6	0	0	7	1	0	7	0	0	5	0	0
Bison Precast	7	0	0	3	0	0	5	0	0	15	1	0	34	0	0

Waste to Landfill - tonne produced

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% Change since 2010	% Change since 2018
	Forterra	1.92	0.39	0.37	0.68	0.37	0.37	0.44	0.71	0.39	0.16	-92%
Bricks	3.90	0.78	0.76	0.75	0.74	0.68	0.86	1.51	0.84	0.31	-92%	-63%
Aircrete Blocks	0.25	0.18	0.15	1.36	0.11	0.19	0.20	0.15	0.01	0.00	-100%	-100%
Blocks	0.39	0.06	0.04	0.17	0.03	0.04	0.04	0.03	0.05	0.04	-90%	-18%
Bison Precast	0.73	0.11	0.09	0.05	0.04	0.04	0.07	0.44	0.04	0.09	-87%	111%

The Bison precast increase between 2016 and 2017 is due to a new site joining the group for which we have no data for previous years.

Recycled and Secondary Materials used - per cent

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	
Recycled aggregates used in precast concrete and concrete blocks	55.5	54.3	50.7	62.1	55.5	49.7	49.5	55	60.1	TBC	Recycled aggregate as a % of total aggregates used
Cement replacements used in precast concrete and concrete blocks	11.2	11.1	9.5	9.2	4.9	4.4	4.0	6.8	9.8	TBC	Cement substitute as a % of total cement used
Clay replacements used in bricks	2.0	3.0	4.5	5.0	7.1	2.7	2.5	1.06	0.9	TBC	Recycled materials used as clay substitute