

NORTHSTONE

Waste Case Study.

The construction industry produces almost 2/3 of the UK's waste, having detrimental impacts to the environment. It is important that the industry strives to minimise waste generation and divert waste from landfill. At Northstone, we are committed to SDG 12: Responsible Production & Consumption, therefore, we have focussed our effort to understand how we can implement a positive change to our waste generation.

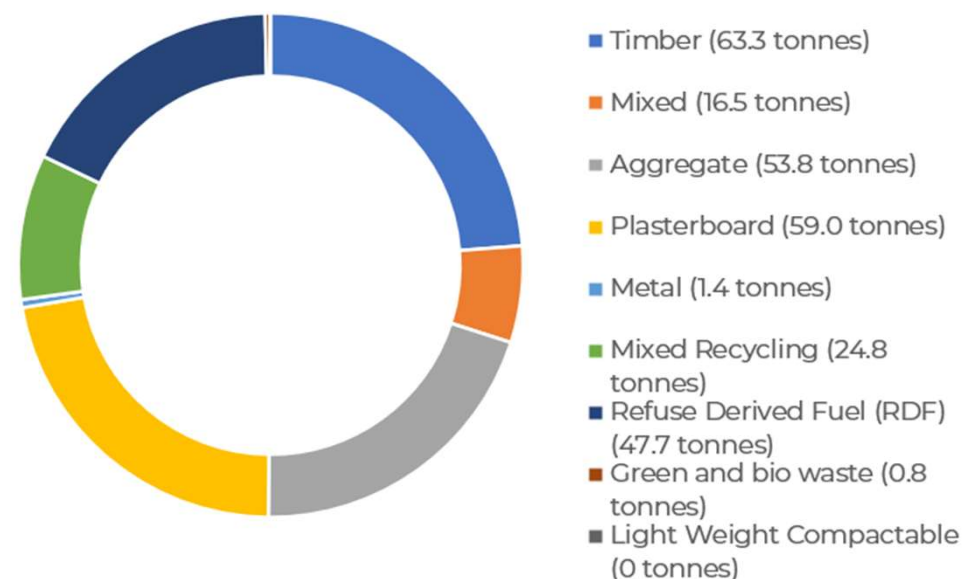


Methodology and Results

Over the past year, we have worked with Kenny's Waste Management to conduct research into our waste consumption. The aim of the research was to understand our significant contributors of waste and set a baseline for measuring annual waste reductions. Using monthly waste reports from March 2021 to April 2022 on our Silkash site in Westhoughton, Bolton, we have quantified our total waste per 100m² of houses completed.

The total waste at our Silkash site equated to **266.3 tonnes**, which has been normalised to 5.82 tonnes per 100 m² of houses completed. This value has become our baseline to measure against for the next 3 years. The following figure 1 breaks the data down further to identify the contributions from different types of waste, highlighting key waste streams to target for reduction: timber, aggregate and plasterboard.

Figure 1: A breakdown of the total construction waste at our Silkash site during the financial year 2021/2022.



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Targets

Using the above data, we have set the following targets:

- To divert at least 95% of construction waste from landfill
- A 3% reduction in construction waste over the next year from our 2021/2022 Silkash baseline
- A construction waste intensity reduction of 15% from 2021/2022 Silkash baseline by 2025

Initiatives

Signage

It is crucial to promote the correct attitude on site by offering information and education with regards to the importance of waste management and Northstone's commitments. Therefore, we have installed signage on all our sites to enforce the importance of waste segregation and to encourage the correct segregation of waste. These signs have been placed in communal areas to ensure the site team have access to the signage on a daily basis.

In the past 12 months...

...we were able to **recycle/recover 99% of our waste** thanks to our partnership with Kenny's Waste Management and your cooperation and efforts to **separate waste into the correct skips**.



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Timber more than 1m in length?

We have partnered with **Men's Sheds** who will take any longer pieces of wood and **use it to create other items for the local community**.

Old pallet wood can be made into **bird boxes and tables** and old decking can be **made into planters for local schools**.

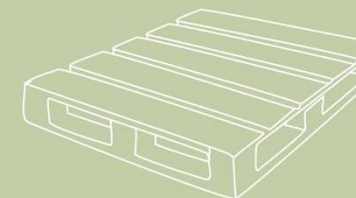


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Throwing away a pallet? *Wait!*

Timber pallets take up space in our skips and increase our timber wastage. TDS can remove the timber free of charge and repair them for further use.

Please place damaged timber pallets in the allocated timber store.



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Initiatives

Timber initiatives

Our results identified that the highest waste stream was timber at 63.3 tonnes (1.38 tonnes / 100m²), therefore, we have put initiatives in place to target this waste specific waste stream.

- We have partnered with Tyldesley Distribution Service (TDS) that offer a service across all our sites whereby they collect our broken timber pallets instead of them being put into our timber skips. These pallets are then repaired and recycled for TDS to sell on to other customers.
- We have also developed partnerships with more local partners and charities, whereby we donate our waste timber. The timber can be reused in multiple ways and where possible they may use this wood to produce bird boxes, bat boxes, benches etc. that can be used on our sites.



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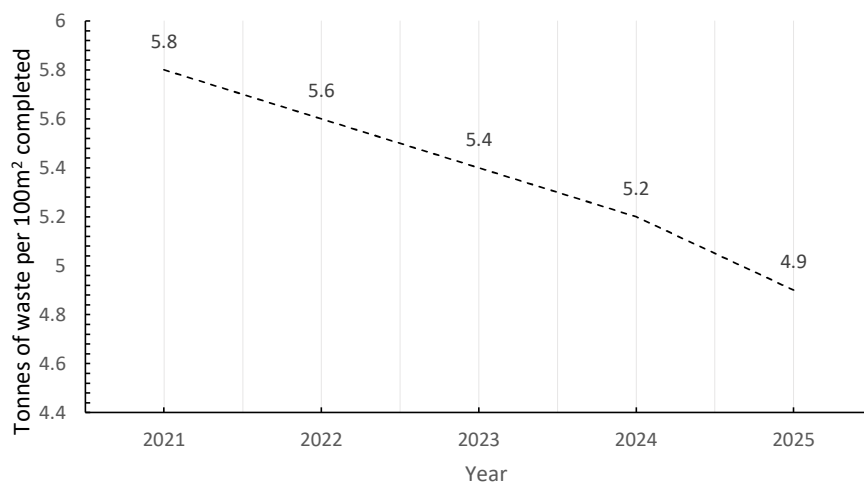
2025 Vision

With a continued reduction of 3%, we have set a target of:

- A construction waste intensity reduction of 15% from 2021/2022 Silkash baseline by 2025

The following figure shows a roadmap with specific initiatives to achieve the 15% reduction which equates to a construction waste figure of 4.9 tonnes per 100m².

Baseline set to monitor progress – 2021 baseline = 5.8 tonnes / 100m²



- 2021 – Partnership with TDS set up to collect timber pallets and signage put up around site.
- 2022 – Timber initiatives put in place to donate waste timber to local charities
- 2023 – Training for construction site based on waste peaks in previous years
- 2024 – Plasterboard and aggregate initiatives put in place to reduce waste streams
- 2025 Target – Reduce 2021 baseline by 15% (4.9 tonnes/100m²)