



Property Developer AND



Timber Frame Manufacturer



The Complicated Jigsaw of Housebuilding And Some of its Acroynyms!

MMC

SAP

DFA

DER

PEA

TER

DFM

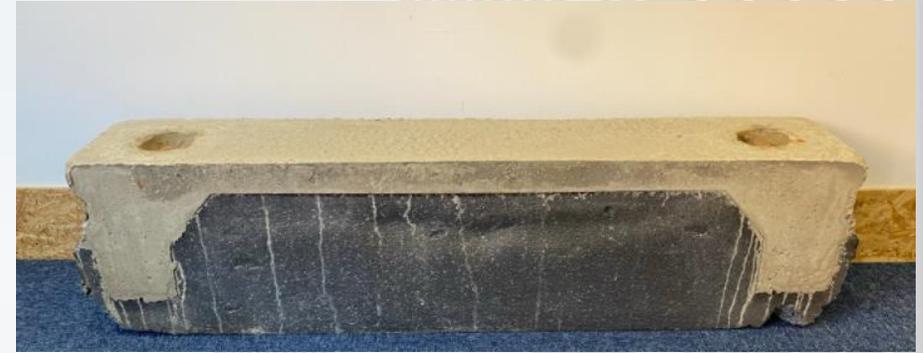
PMV

MMC



PMV

Pre-Manufactured Value (PMV %)
is the financial proportion of a construction project's Gross Construction Cost derived through pre-manufacturing



Why is this important??
The Affordable Homes Program from Homes England requires 25% of new homes to be built with MMC and to have a PMV value of 55%





Power of Collaboration and Operational Efficiencies

Sustainability with Elite Homes

What Marshalls are doing about Sustainability

Our products
We supply best landscaping products for domestic and commercial projects. Of the products we supply, over 95% of our manufactured ranges are made in recycled plastic. Of those we import, we are proud to say that we were one of the first companies to achieve BSI ISO 14001 accreditation for responsible sourcing of construction materials and finished by group ethical sourcing.

Our people
Marshalls has been a business for over 100 years. In this time, we've grown our business and developed our people. We have vibrant and manufacturing operations across the UK, plus our staff in the USA, Latin America and across Europe to give you the best of the best when you call. We have a strong commitment to our people and our planet.

Carbon
We have a responsibility to reduce our carbon footprint. Our products are made from recycled plastic, which has a lower carbon footprint than virgin plastic. We are also investing in renewable energy to power our operations. Our top achievements include a 50% reduction in our carbon footprint since 2008, 1000 tonnes of CO2 saved that goes towards net-zero, and being our carbon emissions targets approved by the Science Based Targets initiative.

Recycling
We have a responsibility to reduce non-recyclable plastic waste from our operations and our customers, and we're proud to be the first in our industry to do this. We have a 100% recycling rate. We are also investing in renewable energy to power our operations. Our top achievements include a 50% reduction in our carbon footprint since 2008, 1000 tonnes of CO2 saved that goes towards net-zero, and being our carbon emissions targets approved by the Science Based Targets initiative.

Biodiversity
As a company, we have a responsibility to look after the natural environment. We are investing in biodiversity, whether it's planting or engaging in tree-planting projects. We are also investing in biodiversity, whether it's planting or engaging in tree-planting projects.

Transport
As part of our commitment to carbon reduction and our aim to be net-zero, we have been upgrading our fleet and have a rolling programme of fleet renewal for Mercedes 100% fleet. The safe and fuel-efficient driving programme is also being rolled out across our fleet. We are also investing in biodiversity, whether it's planting or engaging in tree-planting projects.

EnCORE RIGID LOC

100% WATERPROOF

Working in partnership to deliver healthier, more sustainable homes

Building brighter and healthier homes

FREEDOM

FOCUS

A-Z

DULUX TRADE AIRSURE
The Airture range from Dulux Trade is 100% VOC free.

DULUX TRADE SCUFFSHIELD
Introducing new Dulux Trade Scuffshield matt with new unique Scuff Resistant Technology.

DULUX TRADE EVOLVE
New Dulux Trade Evolve Matt uses reclaimed paint designed for landfill or incineration.

DULUX TRADE DIAMOND
Dulux Trade Diamond is a comprehensive purpose or use protecting against scuffs, scuffing, stains.

Proud to Partner with

The Staircraft Difference

The Best Performing Floor-Kits on the Market
Save at Least One Hour on Installation
Reduce Waste Costs by up to 75%

A true partnership

Elite NuGEN 10 Ordnance Yard | An affordable Net-Zero Home



NET ENERGY CONSUMPTION

-91 kWh



NET CO2 EMISSIONS

-90 kg



ANNUAL ENERGY BILLS

£145

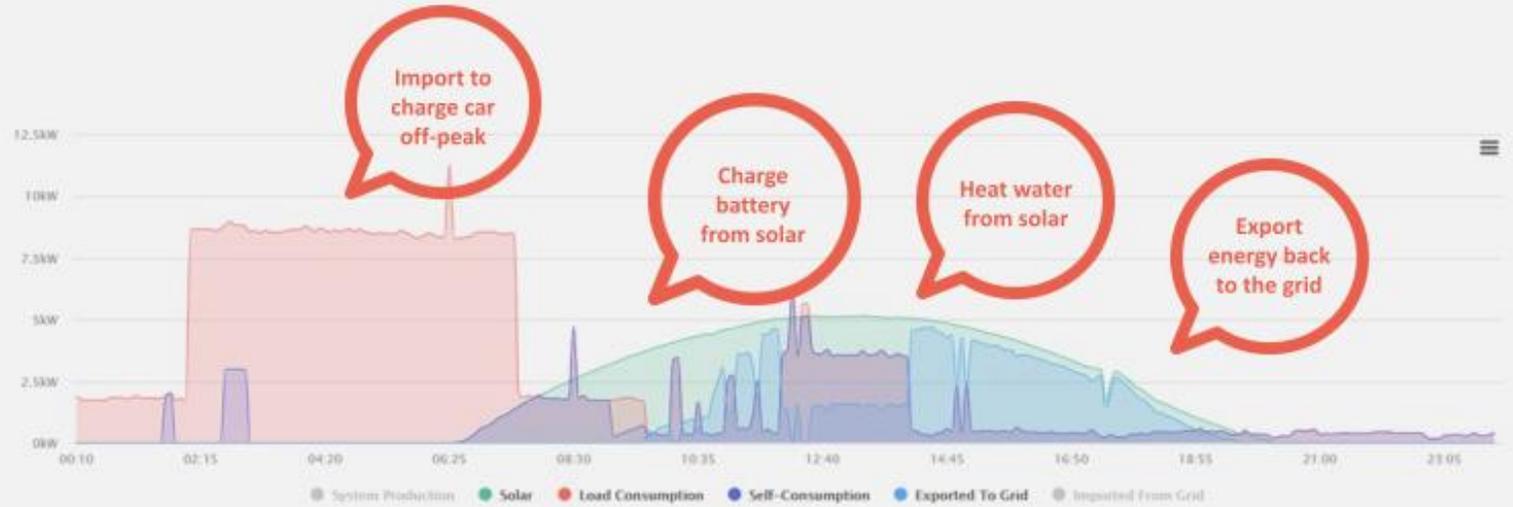
Intelligent Living which does not cost the earth

Elite NuGEN 10 Ordnance Yard | An affordable Net-Zero Home

Actual Performance | From 24-Jun to 31-Oct-2021 Inclusive

WITHOUT ELECTRIC CAR	Wondrwall	ASHP	WW vs ASHP
Energy Imported	1204 KWH	2206 KWH	-1002 KWH
Import Timing	Off-peak	24/7	
Energy Exported	1579 KWH	0 KWH	1579 KWH
Net Energy Consumption	-375 KWH	2206 KWH	-2581 KWH
Net CO2 Emissions	-60 KG	325 KG	-385 KG
Energy Bill	£21	£433	-£412

Performance Analysis | With Electric Vehicle Charging



WITH ELECTRIC CAR*	Elite house w/ Wondrwall & EV	Gas SH/DHW & Petrol Car	
Net CO2 Emissions	39 KG	1447 KG	-1409 KG
Energy Bill	£166	£764	-£598

Note: the house switched from Octopus Agile to Octopus Go on 25/October. This tariff is specifically for EV charging so energy bills will reduce significantly as a result. If they had used Octopus GO initially, the energy bills would have been £82.

How do they look?



We have a smart, eco-friendly home that costs us next to nothing to run and pinch ourselves every day because we still can't quite believe we are living here!"

Elite NuGEN Homeowner



Lessons Learnt

- Importance of Partnerships and commitment to creating long term supply relationships benefits all parties beyond product and price
- Operational Efficiencies both on and off site
- Fractional Savings Add up
- Fabric First Approach using as many sustainable and recyclable products pays off
- Full integration of MMC and as many elements of it with PMV brings huge benefits
- With MMC and PMV Products if at first you don't succeed try try and try again
- The Power of Sharing
- There's not a one size fits all to creating Zero Carbon Low Energy Homes



Thank you!

