# HOUSING SMART CONSTRUCTION DASHBOARD

**Progress Measured December 2020**

## COST
The cost of building a new home of any given size

**CAPITAL COST**
£/m²

BENCHMARK[1]
**1240**
2025 TARGET
**1055**

PROGRESS
**2.0%**

**PRELIMS COST PER HOME BUILT**

BENCHMARK[2]
**12.75%**
2025 TARGET
**12%**

PROGRESS
**0%**

## HOMES COMPLETED /YEAR
The number of completely new homes created per year in the UK

**NUMBER OF HOMES**
Homes per year

BENCHMARK[3]
**220,600**
2025 TARGET
**300,000**

PROGRESS
**3.2%**

## QUALITY
The freedom from faults of new homes when they are handed over to the customers

**QUALITY RATING**

BENCHMARK[7]
**3.89**
2025 TARGET
**4.15**

PROGRESS
**NEW**

## TIME
The time taken to create a new home, from the day that workers first arrive on site, to handover of the habitable building

**TIME ON SITE**
days/m²

BENCHMARK[6]
**0.22**
2025 TARGET
**0.14**

PROGRESS
**-22.2%**

## SMART
How efficiently human labour is used in the creation of new homes

**PMV**

BENCHMARK[9]
**40%**
2025 TARGET
**55%**

PROGRESS
**0%**

**PRODUCTIVITY**
£/man hour

BENCHMARK[10]
**£29.5**
2025 TARGET
**£36**

PROGRESS
**9.3%**

**DIGITAL MATURITY INDEX**

BENCHMARK[11]
**22**
2025 TARGET
**50**

PROGRESS
**NEW**

## SUSTAINABILITY
How environmentally friendly new homes are, both in construction and in use

**EMBODIED CARBON**
$kgCO_2e/m^2$

BENCHMARK[4]
**800**
2025 TARGET
**400**

PROGRESS
**14.4%**

**EPC RATING**
Integer

BENCHMARK[5]
**B**
2025 TARGET
**A**

PROGRESS
**0%**

**WASTE GENERATED**
m³/£100k project value

BENCHMARK[6]
**9.15**
2025 TARGET
**7.3**

PROGRESS
**15.3%**

**CIRCULAR ECONOMY**
Material re-use %

BENCHMARK[8]
**3**
2025 TARGET
**10**

PROGRESS
**NEW**

## HEALTH & SAFETY
How effectively the wellbeing of the workers building new homes is protected on site, and enhanced for the occupants via design of the home

**SAFETY ON SITE**
Injuries per million hours worked

BENCHMARK[12]
**1.71**
2025 TARGET
**1.54**

PROGRESS
**17%**

**HEALTH & WELLBEING**
% of homes completed

BENCHMARK[13]
**0.52%**
2025 TARGET
**2%**

PROGRESS
**205%**

**APPRENTICE LEVELS**
per 1000 people

BENCHMARK[14]
**23**
2025 TARGET
**25.4**

PROGRESS
**NEW**

Construction Leadership Council

**BENCHMARK SOURCES**
1. RICS BCIS residential cost data, 2020
2. RICS BCIS residential cost data, 2020
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4. RICS Building Carbon database, 2020
5. gov.uk/government/statistical-data-sets/live-tables-on-energy-performance-of-buildings-certificates
6. BRE SmartWaste data, 2020
7. NHBC Construction Quality Index 2020 Data
8. BRE : Proportion on Home formed by mass and value
9. Current benchmark from Cast Consulting. Cast PMV Estimator recording benchmark for 2022
10. ons.gov.uk/employmentandlabourmarket/peopleinwork/labourproductivity/datasets/annualbreakdownofcontributionswholeeconomyandsectors
11. Mott MacDonald Smart Infrastructure Index (Moata) residential data 2020
12. HSE RIDIND data and ASHE data for hours worked,2020
13. Passivhaus Trust, 2020
14. CITB Construction Industry apprenticship starts 2020