

### Current Carbon Dioxide Reduction statistics for The Star

The Star development comprises No.10 apartments and No.2 semi-detached dwellings. All of which host the following fabric and service details:

- BFRC Rated double glazing (G-value= 0.50)
- Air permeability target of 3.00m<sup>3</sup>/hr/m<sup>2</sup>@50Pa
- Direct Electric heating via direct action boilers
- ASHP Install (to account for initial failure in 35% reduction]
- Centralise MVHR systems
- Solar P.V. (to account for initial failure in Part L1A compliance)

The current emissions for each flat and dwelling can be seen below with their percentage pass mark.

Block Reference: Q-03466		Block Name: The Star			
Property-Assessment Reference	Multiplier	Floor Area (m <sup>2</sup> )	DER (kgCO <sub>2</sub> /m <sup>2</sup> )	TER (kgCO <sub>2</sub> /m <sup>2</sup> )	% DER/TER
Q-03466 APT.05-Design V3	1	49.86	15.29	26.55	42.41 %
Q-03466 APT.06-Design V3	1	71.76	16.15	23.42	31.05 %
Q-03466 APT.07-Design V3	1	50.78	17.16	26.44	35.10 %
Q-03466 APT.08-Design V3	1	62.1	21.40	29.15	26.59 %
Q-03466 APT.09-Design V3	1	77.67	13.99	24.99	44.02 %
Q-03466 APT.10-Design V3	1	77.28	6.41	28.04	77.14 %
Q-03466 H.01-Design V3	1	128.11	15.93	23.65	32.63 %
Q-03466 H.02-Design V3	1	128.11	16.17	23.65	31.61 %
Q-03466 APT.01-Design V4	1	49.86	18.13	31.61	42.64 %
Q-03466 APT.02-Design V4	1	71.76	15.07	27.56	45.32 %
Q-03466 APT.03-Design V4	1	50.78	21.01	31.96	34.26 %
Q-03466 APT.04-Design V4	1	52.99	30.62	35.30	13.27 %
Totals:	12	871.06	207.33	332.32	

The area-weighted CO<sub>2</sub> reduction equals **37.98%** beyond current building regulations.

This does achieve the required reduction rate of 35.00%.

The payment contribution toward Carbon Offsetting is - **£26,083.32** [**£1800 per Ton of Co<sub>2</sub>**]

For any further questions please contact me on:

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