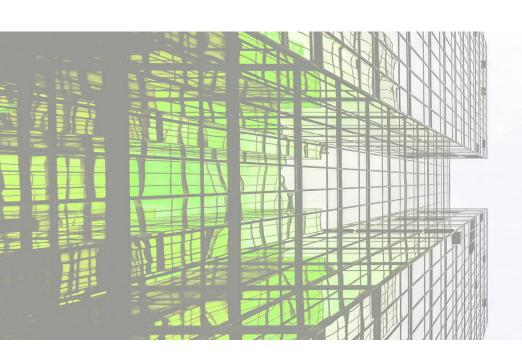
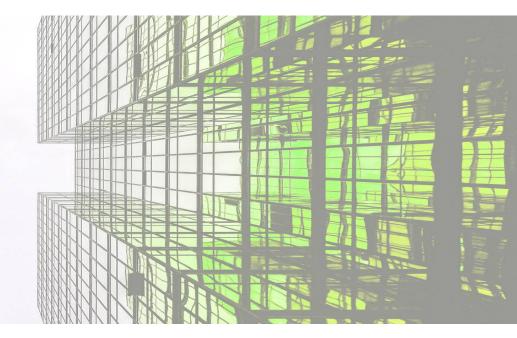
Home Quality Mark Design Stage Assessment

Maitland Park, Camden

Prepared for BYUK and Camden Council 21st October 2020













Revision	Date
Final	21/10/2020
Author	Signature
Charlotte Brewin, HQM Assessor	CLBrewin
Reviewed by	Signature
Simon Rainsford, Director	Su Rould.





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1 INTRODUCTION

A 3 Star rating under the Home Quality Mark (HQM) Assessment is required for the proposed Maitland Park development, which includes the proposed development of apartments in Aspen Court, Aspen Villas, Grafton Terrace and the neighbouring house, Grafton House. This report confirms that all evidence has been presented to and reviewed by Envision who is appointed HQM Assessor, in order to achieve the targeted score at Design Stage. The assessment is now to be submitted to BRE for verification and interim certification.

The assessment has been prepared based on a review of design proposals for all the residential dwellings within the proposed development, against the current Home Quality Mark One assessment methodology. This report confirms achievement of the required 3 Star rating, at the interim Design Stage, subject to BRE verification.

Home Quality Mark

Home Quality Mark (HQM) is the new assessment methodology developed by the Building Research Establishment (BRE) as the national quality mark for homes, giving consumers a better choice for a healthier, more sustainable new home.

HQM ratings are awarded based on achievement of relevant minimum standards and number of points overall. The diagram opposite shows the required scores for each rating benchmark, with the targeted rating for this assessment highlighted in green.







2 DESIGN STAGE ASSESSMENT RESULTS

A detailed analysis of the HQM credits achieved at Design Stage is presented in Appendix A of this report.

This assessment is based on a detailed review of the design and is supported by robust commitments, so that there is high level of certainty of what is achievable for this development. Where credits are not considered possible to achieve, justification is provided based on experience of similar developments and discussions with the project team.

The results, as illustrated in the table, confirm that the development has achieved a score of **214**, providing a suitable buffer over the required 150 for a **3 Star rating**, along with meeting the minimum requirements for an HQM assessment.

Rating		3 Star	3 Star	
Total	500	214	214	77
11 Customer Experience	22	1	1	
10 Construction Impacts	31	17	17	4
9 Quality Assurance	33	3	3	(
Delivery	86	21	21	4
8 Water	17	0	0	(
7 Space	24	10	10	
6 Materials	69	16	16	
5 Energy	83	39	39	8
4 Comfort	68	33	33	11
My Home	261	98	98	19
3 Safety and Resilience	47	37	37	28
2 Outdoors	58	31	31	15
1 Transport and Movement	48	27	27	11
Our Surroundings	153	95	95	54
	Credits available	Targeted Credits	Achieved Credits	Achieved Credits
		Predictive Assessment	Design Stage	Post Construction
4 Star	240			
3 Star	150			
STAR RATING BANDS	-			
	targeted/ac score	hieved. Some d	wellings will ach	ieve a higher
SUMMARY OF SCORES	Note - sumr	nary scores refl	ect minimum sc	ore
Based on HQM One Technic	al Standard (S	D239 England A	ugust 2018)	
21/10/2020				
MAITLAND PARK - HOME Q	UALITY MAR	K ASSESSMENT		





In addition to the requirement to achieve a 3 Star rating, the planning condition requires specific credits to be achieved in relation to Energy, Materials and Water. These are shown in the table below, with all credits confirmed to be achieved at Design Stage.

Camden	Credit Title	Available	Predicted C	redits	Design Stage	Assessment
'Category'		Credits	Targeted	% of section credits targeted	Achieved	% of section credits achieved
	4.2 Daylight	13	0		0	
	4.5 Temperature	17	11		11	
	4.6 Ventilation	13	9		9	
	5.1 Energy and cost	60	16		16	
	5.2 Decentralised	8	8		8	
Energy	energy			50		50
	5.3 Air quality	15	15		15	
	10.1 Responsible	5	5		5	
	construction					
	10.2 Construction	5	4	•	4	
	energy use					
	8.1 Water efficiency	17	0		0	
	10.3 Construction	5	4		4	
Water	water use			53		53
vvater	3.2 Managing rainfall	19	9	55	9	55
	impacts					
	3.1 Flood risk	19	19		19	
	6.1 Responsible	25	9		9	
	sourcing					
	6.2 Materials impacts	25	0		0	
Materials	6.3 Life cycle costing	cycle costing 12 0				24
	6.4 Durability	7	7		7	İ
	10.4 Site waste management	14	4		4	





APPENDIX A ACHIEVED CREDITS

The following table sets out the details of the credit achieved at Design Stage, in order to achieve the required HQM rating for the proposed for the proposed development, based on the HQM One methodology. It also presents the evidence that will be required for the Post Construction assessment. These scores are the basis of the assessment results presented in main body of this report.



Based on HQM One Technical Standard (SD239 England August 2018)

HOME QUALITY MARK

	Available Credits	Predicted	creaits	Summary of Requirements (for details, see HQM One Technical Manual)	Project Specific Comment	Design Stage Assessment				Post Construction Assessmen	nt		
		Targeted	Additional			Evidence Requirements	Responsibility	Evidence Received	Credit	Evidence Requirements	Responsibility	Evidence Received	Credit
									Achieved				Achieved
ement													
Accessibility Index	12	8	(+4 for some units	Up to 12 credits awarded based on accessibility to public transport) nodes.	Based on published AI on TfL website, using postcodes in Transport Assessment - NW3 2EH = 10.83 and NW5 4JA = 13.94. Those dwellings with postcode NW3 2EH will achieve 8 credits and those dwellings with postcode NW5 4JA will achieve 12 credits.	TFI Public Accessibility report	Envision	Yes	8	As design stage			8
Improved local service	3	0	0	Further 3 credits available if contract with local transport providers to improve local services	No credits targeted as no contract with local transport providers to improve local services	Credit not targeted							
	n/a	n/a	n/a		Pre-requisite is targeted as part of meeting minim	num requirements (see 11.2)							
requisite						T			T		1	1	
Cycle Stol age		Ü	1.		not all units will achieve credits. (Transport Assessment indicates cycle shelters will be covered, meeting the HQM requirement). Updated re. MMA submission - number of cycle spaces still at least 1 per dwelling. 1 beds = 6 credits	from building entrance	ECE	Stage 4 GF Plans	units except		EINSOII		
Cycle Networks	4	0	0	Credits for improvements to local cycling network, with connection from units to safe cycle route via safe pedestrian route.	To achieve credit - must demonstrate specific improvement to local cycle network. Not included in proposals.	Credit not targeted							
Electric vehicle charging points	4	0	0	Where parking is communal, credits achieved dependent on following factors: Type of fast charging in place - No of spaces with EV provision - Total number of spaces	Latest discussions confirm no electric charging points to be provided as limited carparking that is for disabled use only with restricted access. (3 credits achievable if 2 electric charging points installed with >7kW charging capacity. Further credit if greater number of charging points installed.)	Credit not targeted							
Car clubs	3	3	-	A compliant Car Club within 650m of the home. (Definition of 'compliant Car Club' includes club will have sufficient provision of cars to cater for expected demands of whole development.)	1 .		Ramboll	Transport Assessment	3	As design stage			3
Key / Beneficial local amenities	16	16	-	Three or more local amenities within walking distance (650m via safe walking routes), plus additional 2 amenities within 1.5 miles.	16 credits based on information on proximity to amenities provided in Transport Assessment.	Details of local amenities and walking routes	Ramboll	Transport Assessment	16	Site report confirming presence of local amenities	Envision		
			<u> </u>										
Survey and Evaluation	3	3	-	Ecologist appointed early in project and site surveyed/evaluated.	Based on appointment of The Ecology Consultancy, credits assumed.	Confirmation of ecologist appointment	Arcadis	Email confirmation	3	As design stage			3
Determining ecological outcomes	3	3	-	Identify, appraise and agree ecological outcomes early in design in line with hierarchy of mitigation.	Credits agreed feasible in discussion with George from The Ecology Consultancy.	Ecology Report	The Ecology Consultancy	Ecology report	3	As design stage			3
Wider site sustainability	1	0	0	When determining ecological outcomes, consideration given to wider site acitives and potential for ecosystem benefits.	given to wider sustainability in developing the	Credit not targeted							
Ecological risks / liasion and implementation	3	3	-	First 6 credits of 2.1 above achieved. Roles and responsibilities clearly defined, compliance with ecological legislation confirmed and site preparation and construction planned to achieve optimal ecological outcomes.	Credits agreed feasible in discussion with George from The Ecology Consultancy.	Ecology Report	The Ecology Consultancy	Ecology report	3	As design stage			3
	Improved local service Home information pre- requisite Cycle Storage Cycle Networks Electric vehicle charging points Car clubs Key / Beneficial local amenities Survey and Evaluation Determining ecological outcomes Wider site sustainability Ecological risks / liasion	Improved local service 3 Home information prerequisite Cycle Storage 6 Cycle Networks 4 Electric vehicle charging points 3 Key / Beneficial local amenities 16 Survey and Evaluation 3 Determining ecological outcomes 3 Wider site sustainability 1	ment Accessibility Index Improved local service Imp	ment Accessibility Index Improved local service Imp	Trigisted Additional	Accordibility Indice Comparison Compari	Process Proc	Temporal Exercision Temporal Control Service Tempora	Page 1985 Modelloon Page 2015 Modelloon Page	Procession of the control of the con	Part Part	Part Mills Market The State of the Control of Control	Page Page



Based on HQM One Technical Standard (SD239 England August 2018)



Credit Title	Sub Title	Available Credits	Predicted C	Credits	Summary of Requirements (for details, see HQM One Technical Manual)	Project Specific Comment	Design Stage Assessment				Post Construction Assessmen	t		
			Targeted	Additional			Evidence Requirements	Responsibility	Evidence Received	Credit Achieved	Evidence Requirements	Responsibility	Evidence Received	Credit Achieved
	Managing negative risks	6	6	-	Negative impacts managed and no overall loss of ecological value.	Credits assumed based on latest updates to landscaping/planting plans and assumed agreement on bat surveys/nest bird checks/external light sensitive design	Ecology Report Updated landscaping plans Confirmation on bat surveys/nesting bird checks External lighting design confirmation	BYUK/Ridge	Email discussion Landscaping plan Ecology report Confirmations on nesting bird checks and external lighting design	6 d	Confirmation of planting Confirmation on bat surveys/nesting bird checks External lighting design confirmation	Bougyues		Acrieved
2.3 Ecological Change and Enhancement	Previously occupied land	2	2	-	75% of proposed development on previously developed land.	Credits achievable as whole site previously developed.	Existing and proposed site plans	Cullinan Studio	DAS received	2	As design stage			
and Emancement	Liasion and implementation	2	2	-	Ecologist has liased with representative local stakeholders to determine and implement relevant actions.	Credits agreed feasible in discussion with George from The Ecology Consultancy.	Ecology Report	The Ecology Consultancy	Ecology report and calculations	2	As design stage			2
	Measuring change in ecological value	8	4		Credits awarded for change in ecological value as a result of the development:- 2 credits - minimising loss of ecology 4 credits - no net loss of ecology 6 credits - net gain of ecology 8 credits - exceeds net gain	4 credits agreed feasible in discussion with George from The Ecology Consultancy and following updates on landscaping/planting plans	Ecology Report Updated landscaping plans	The Ecology Consultancy	Ecology report and calculations	4	Confirmation of planting	Bougyues		
2.4 Long Term Ecological Management and Maintenance	Landscape and ecology management plan	4	4	-	Landscape and ecological management plan for the development.	A landscape andecological management plan is to be prepared.	Landscape and ecological management plan	Turkington Martir / The Ecology Consultancy	n Email discussion Landscape management plan Ecological managemen	t t	As design stage			4
	Monitoring and update	4	0	-	Formal commitment to ongoing management of landscape and ecology and maintaining ecological value of the site.	This credit is not currently targeted as there is no specific commitment to ongoing management and maintenance.	Credit not targeted		- IF					
2.5 Recreational Space	Accessible recreation spaces	4	4	-	Within walking distace of recreational space.	Credits achievable based on existing and proposed open space / play provision.	Existing and proposed site plans, including final details on provision of open space	Cullinan Studio	Plans confirming proximity to existing park	4	Site report confirming construction providing open space	Envision		
	Private space	6	0	up to +6	Up to 2 bedrooms:- 1 credit for 4m² of private external space (including balconies with minimum depth of 1.5m) 3 credits for 6m² 6 credits for 8m² Additional bedrooms require additional 1m² For 4bed Home - 1 credit if 30m² of private external space	Based on info provided, the apartments will achieve at least 1 credit, some will achieve 3 or 6. However 5 bed home will not achieve any. Update - see breakdown on dwelling specific credits spreadsheet	Drawings confirming provision of private space	ECE	Stage 3 Plans Stage 4 Plans confirming locations of balconies Measurement details confirming balcony area Email confirmation of balcony minimum depth 1.5m	up to +6	Site report confirming construction providing private space	Envision		
	Communal space	7	0	+7 for some units	Apartments in close proximity to external communal space that is clearly associated with the development.	Feasible to achieve for apartments in Aspen Court and Aspen Villas, but not for Grafton Terrace.	Existing and proposed site plans, including final details on provision of open space	ECE-Turkington Martin	Stage 3 Plans Stage 4 plans confirming external communal space (confirming area of communal space, in m2, and total GDA)	up to +7	Site report confirming construction providing open space	Envision		
	Growing space	5	0		Apartments in close proximity to area designated as 'growing space' (i.e. private gardens, allotments, community orchards).	Credit not targeted as landscape design does not include 'growing space'	Credit not targeted							
3 Safety and Resilience				1										
3.1 Flood Risk	Flood Risk	19	19	-	Minimum Requirement - site specific FRA completed. 19 credits for site confirmed in low flood risk zone.	Technical note for original planning provides suitable justification why no FRA produced and confirms site is at low risk of flooding.	Confirmation on low risk of flooding	Ramboll	Drainage design philosophy	19	As design stage			19
3.2 Managing Rainfall Impacts	Peak rate of runoff	5	3	-	3 credits - peak rate of runoff same as pre-development site. 5 credits - same as greenfield runoff rates.	3 credits available based on current proposals. Greenfield runoff rates not achievable without significant change to drainage design.	Calculations confirming peak rate of runoff same are pre-development site	Reuby & Stagg	Calculations	3	As design stage			3



Based on HQM One Technical Standard (SD239 England August 2018)

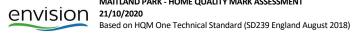


Credit Title	Sub Title	Available Credits	Predicted Cr	edits	Summary of Requirements (for details, see HQM One Technical Manual)	Project Specific Comment	Design Stage Assessment				Post Construction Assessmen	t		
			Targeted	Additional	,		Evidence Requirements	Responsibility	Evidence Received	Credit Achieved	Evidence Requirements	Responsibility	Evidence Received	Credit Achieved
	Volume of run-off	9	6	-	6 credits -post development volume of runoff same as predevelopment site. 9 credits - same as greenfield runoff rates.	6 credits available based on current proposals. Greenfield runoff rates not achievable without significant change to drainage design.	Calculations confirming post development volume of runoff same are pre-development site	Reuby & Stagg	Calculations	6	As design stage			6
	Water quality	3	0		Appropriate pollution prevention and treatment measures on surface water drainage systems	e Credit not targeted due to complexity of linking development into existing drainage systems	Credit not targeted							
	Designing for	2	0		Agreements in place for ownership, long term operation and	Credit not targeted due to complexity of linking	Credit not targeted							
	maintenance and operation				maintenance of SUDs for the design life of the development	development into existing drainage systems				la.	lan a di di	I=		
3.3 Security	Security needs assessment and security features	,	9	-	Security needs assessment, carried out by Security Specialist, which sets recommendations to be included in design, and confirmation that 50% (4 credits) or 100% (9 credits) of recommendations are implemented.	SBD recommendations / schedule in previous DAS noted. SbD Gold level targeted.	SBD Recommendations and confirmation on recommendations included in design	Cullinan Studio / ECE / Turkington Martin	SBD recommendations Drawings confirming window/door specification Confirmation on recommendations incorporated into design	9	Site report confirming security design incorporated in built form	Envision		
My Home														
4 Comfort	Minimising emissions	neo	12/2	n/a	All combustion ambiguous beautifus short de	No individual combustion and	Doom data sht- /	Didge / CCC	Vorbal	neo	Cito report	Envision	1	
4.1 Indoor Pollutants	from space and water heating	pre-req	n/a	n/a	All combustion appliances have flues that discharge outdoors.	No individual combustion appliances in homes, and therefore meets requirement by avoidance of need.	Room data sheets (or equivalent information) confirming no individual combustion appliances	Ridge / ECE	Verbal confirmation Typical Kitchen layouts and M&E Specifcation		Site report confirming no individual combustion appliances	Envision		
	Minmising the effects of cooking	2	2	-	In mechanically ventilated homes, cooker hoods is specified as recirculating.	Specification includes cooker hoods as recirculating type. Confirmed specification applicable to all homes.	Cooker hood specification	Cullinan Studio / ECE	Typical kitchen layout confirming cooker hood specification - Zanussi slider control integrated 60cm cooke hood Manufacturer specification Email confirmation tha will be recirculating.		Site report confirming cooker hoods installed			
	Minimising emissions from building product types	4	2	0	Paints, wood based products, flooring, building fabric insulation materials and adhesives/sealants meet criteria set out in Table 17 of HQM One technical manual. Credits awarded based on:- 1 product meets requirements - 1 credit 3 products - 2 credits All products - 4 credits If wood based products do not meet overall requirements, as a minimum all internal fixtures and fittings must be classified as formaldehyde E1 class.	Details included in prelims. Feasible to achieve 2 credits without incurring significant cost/placing onerous requirement on material specification.		ECE	Prelims Completed template with agreed finishing schedule and confirmation of VOC/formaldyde emission compliance	2	Site report confirming finishes	Envision		
	Minimising airborne formaldehyde from all sources	3	0	0	Post construction testing for formaldehyde concentrations confirms do not exceed 0.1mg/m3.	Whilst commitment made to specify low VOC / formaldehyde products, would need additional commitment to post construction testing to confirm the levels in order to achieve credits.	Credit not targeted							
	Minimising airborne total volatile organic compounds (TVOCs)	3	0	0	Post construction testing for TVOCs confirms do not exceed 0.5mg/m3.	action and reversity order to autheve credits.	Credit not targeted							
4.2 Daylight	Average daylight factor	10	0	(up to +10 for some units)	5 credits for all kitchens achieve a minimum daylight factor of 2% Further credits for living rooms achieving following daylight factors: 1.5% - 1 credit 1.8% - 3 credits 2.0% - 5 credits	Daylight and sunlight report indicates that some but not all units would achieve these credits.	Daylight calculations	ECE	Daylight and sunlight report And confirmation of room / window sizes in Stage 4 design in line with daylight calculations	apartment breakdown)	As design stage			(see detailed apartment breakdown)





Credit Title	Sub Title	Available Credits	Predicted Credits	Summary of Requirements (for details, see HQM One Technical Manual)	Project Specific Comment	Design Stage Assessment				Post Construction Assessmer	nt		
			Targeted Additional			Evidence Requirements	Responsibility	Evidence Received	Credit Achieved	Evidence Requirements	Responsibility	Evidence Received	Credit Achieved
	View of sky	3	0 (+3 for some units	80% of working plane in kitchen, living room, dining room, study recieves direct light from the sky.	Daylight and sunlight report indicates that some but not all units would achieve these credits.	View of the sky calculations	ECE	Daylight and sunlight report And confirmation of room / window sizes in Stage 4 design in line with daylight calculations	(see detailed apartment breakdown)	l As design stage			(see detailed apartment breakdown)
4.3 Noise Sources	Internal Noise Levels	2	2 0	Acoustician confirms units are designed to meet internal noise requirements as set out in Table 20 of HQM One technical manual	Acoustician confirms 2 credits feasible Acoustic Report included in MMA update - DAS confirms 2 credits feasible	Acoustic report confirming requirements met	Cole and Jarman	Acoustic report confirming Stage 4 design meets requirements	2	Pre completion test results	Cole and Jarman		
	2	2	1 0	Acoustician confirms units are designed to meet noise levels in external functional spaces (i.e. balconies) as set out in Table 21 of HQM One technical manual.	Acoustician confirms 1 credit feasible. Acoustic Report included in MMA update - DAS confirms 2 credits feasible	Acoustic report confirming requirements met	Cole and Jarman	Acoustic report confirming Stage 4 design meets requirements	1	Pre completion test results	Cole and Jarman		
4.4 Sound Insulation	Sound insulation between homes	5	3 0	Airborne and impact sound insulation levels for separating walls and floors set out in Table 22 of HQM One technical manual are confirmed through pre-completion testing (or Robust Details).	Acoustician confirms 3 credits feasible.	Acoustic report confirming requirements met	Cole and Jarman / BYUK	/ Acoustic report confirming Stage 4 design meets requirements Email confirming commitment to pre- completion testing	3	Pre completion test results	Cole and Jarman		
	Sound insulation between internal walls and floors	4	3 0	Airborne sound insulation levels for internal walls set out in Table 23 of HQM One technical manual are confirmed through pre-completion testing (or Robust Details).		Acoustic report confirming requirements met	Cole and Jarman / BYUK	Acoustic report confirming Stage 4 design meets requirements Require - commitment to pre- completion testing	3	Pre completion test results	Cole and Jarman		
4.5 Temperature	Temperature analysis - current conditions	11	11 -	Minimum Requirement - thermal analysis carried out in accordance with CIBSE TM59. 11 credits for homes confirmed to be designed to limit overheating in accordance with section 4.3 of CIBSE TM59.	TM59 overheating assessment to be carried out at next design stage.	TM59 overheating assessment results	Ridge	TM59 assessment results	11	As design stage			11
	Temperature analysis - predicted climate change environment	6	0 0	Further 6 credits available if thermal modelling includes projected climate change environments and thermal comfort criteria confirmed to be met/building can be easily adapted to achieve.	Credit not targeted as likely to require redesign of development to achieve additional criteria.	Credit not targeted							
4.6 Ventilation	Information Sign	n/a	n/a n/a	Minimum Requirement - Information sign fixed inside air cupboard or equivalent and includes required information on ventilation system controls and maintenance.	Included in design	Specification of information sign	Ridge	Manufacturer's confirmation re. specification of information sign		Site report confirming installation of information sig	Envision n		



HOME QUALITY MARK

Credit Title	Sub Title	Available Credits	Predicted C	redits	Summary of Requirements (for details, see HQM One Technical Manual)	Project Specific Comment	Design Stage Assessment				Post Construction Assessmen	t		
			Targeted	Additional			Evidence Requirements	Responsibility	Evidence Received	Credit Achieved	Evidence Requirements	Responsibility	Evidence Received	Credit Achieved
	Ventilation air intakes	4	0	0	Ventilation air intakes avoid drawing in pollution in accordance with CIBSE TM21. Further guidance from BRE confirms this includes considering: Provision of filtration - Positioning inlets to minimise impacts of traffic pollution - Positioning inlets to minimise impacts of other local sources of pollution - Positioning inlets to minimise recirculation from ventilation exhausts.	Not achieveable intakes and discharge locations are not in accordance with CIBSE TM21 due to proximity of air intakes to road network .	Credit not targeted							
	Ventilation rates	5	5	0	Minimum Requirement - For system 4 (continuous mechanical supply and extract with heat recovery (MVHR) - assumed for this scheme), ventilation system has capacity to achieve minimum ventilation rates according to size of home set out in Table 26) and boost flow rates meet minimum requirement in Table 27 of HQM One technical manual. For 5 credits - Above air intakes credit achieved - For system 4 (continuous mechanical supply and extract with heat recovery (MVHR)), achieve applicable minimum ventilation rates set out in Table 26 and boost flow rates to achieve credits in Table 27 of HQM One technical manual. - For system 1 and 2 - The total equivalent area of background ventilators is sized in accordance with the relevant local Building Regulations for ventilation, and based on assumed worst case occupancy, i.e. two occupants in all bedrooms	design with the MVHR units, with local control	Specification of ventilation system, confirming meeting minimum requirement and credit requirements	Ridge	Verbal confirmation Specification of ventilation system for apartments and house	5	As built drawings for ventilation system	Ridge		
	Maintenance and controls	4	4	0	Minimum Requirement - ventilation system can be manually or automatically boosted in wet rooms. For 4 credits - All above requirements met, plus maintenance activities confirmed can be carried out safely, and MHVR controls are provided to control for varying occupany levels within having to enable boost mode.	Minimum requirement achieved and current design with the MVHR units, with local control boost in the utility cupboard and fully accessible filters meets requirements for credits.	Specification of ventilation system, confirming meeting minimum requirement	Ridge	Verbal confirmation Specification of ventilation system for apartments and house	4	As built drawings for ventilation system	Ridge		
5 Energy														
5.1 Energy and cost	Energy performance	40	16	(+14 for some units	Credits awarded dependent on SAP results demonstrating home energy performance ratio.	Current SAP results indicate between 16 and 31 points achievable. GT102 = 31 credits GT303 = 16 credits AC302 = 20 credits AC310 = 16 credits Minimum 16 credits included in targeted, with a number of dwellings achieving higher ratings.	SAP results	Ridge	Initial/ draft SAP results Require - as designed SAP results	5 16+	As built SAP results	Ridge		
	Towards carbon negative	6	0	0	Max 40 credits achieved plus % of unregulated operational energy provided by on site or near site carbon neutral sources.	Not feasible with current energy strategy. Would require significant redesign	Credit not targeted							
	Cost	14	0	(up to +2 for some units)	Credits awarded based on above calculations automatically translated to energy cost within HQM tool.	SAP results indicate some units achieve 2 points but not all.	SAP results	Ridge	Initial/ draft SAP results Require - as designed SAP results	s 0	As built SAP results	Ridge		
5.2 Decentralised	Feasibility study and implementation	8	8	-	Low and zero carbon technology feasiblity study undertaken, and findings implemented.	Energy Statement will meet requirements.	Energy Statement	TGA	Energy Statement	8	As design stage			8
Energy 5.3 Impact on Local Air Quality		15	15	-	All heating and hot water supplied by non-combustible appliances such as those powered by electricity OR Heating and hot water generating systems meet relevant NOx emission levels set out in Table 35 of HQM One technical manual.	Credits achievable as supply via ASHP.	Confirmation of ASHP specification	Ridge	Stage 3 report Stage 4A Building Services Specification	15	Site report confirming ASHPs installed	Envision		
6 Materials 6.1 Responsible	Legally harvested and	pre-req	n/a	n/a	All timber and timber based products meets definition of legally	Included in prelims	Finishes schedule / Employers	ECE	Prelims		Confirmation all timber	Bouygues	<u> </u>	
Sourcing	traded timber	pre req	1,7 3	.,, 0	harvested and traded timber.		requirements confirming timber specification		NBS confirming timber specification		suppliers meet definition	Jourgues		



Based on HQM One Technical Standard (SD239 England August 2018)



Credit Title	Sub Title	Available Credits	Predicted Cr	edits	Summary of Requirements (for details, see HQM One Technical Manual)	Project Specific Comment	Design Stage Assessment				Post Construction Assessmen	t		
			Targeted	Additional			Evidence Requirements	Responsibility	Evidence Received	Credit Achieved	Evidence Requirements	Responsibility	Evidence Received	Credit Achieved
	Product procurement policy	2	0	0	By end of RIBA Stage 2, product procurement policy in place.	No indication this was in place by end of RIBA Stage 2, therefore not assumed.	Credit not targeted							
	Responsible sourcing of construction products	23	9	0	Credits achievable based on increasing proportion of construction products sourced from suppliers with responsible sourcing certification (e.g. ISO14001/BES6001).	Credits achievable for proportion of construction products sourced according to requirements. Supply chain currently being analysed to ensure minimum 9 credits achieved, maybe feasible to achieve more.	Completed HQM Materials tool, based on: Material quantities - Supply chain - Responsible sourcing certification	ECE / Reuby & Stagg / Turkingtor Martin / BYUK	Completed template, with info from ECE/Reuby & Stagg/TM/BYUK	9	Confirmation that material quantities and suppliers as per design stage	Bouygues		
6.2 Environmental Impact of Materials	Product procurement policy	2	0	0	By end of RIBA Stage 2, product procurement policy in place.	Not in place by end of RIBA Stage 2, therefore not achievable.	Credit not targeted							
impact of Materials	Product environmental information	4	0	0	Credits achievable based on increasing proportion of construction products with Environmental Product Declaration (EPD) certification.	EPD is a new certification with only limited materials/suppliers being able to confirm accreditation. No credits assumed at present, will be kept under review as suppliers confirmed.	Credit not targeted							
	Building Lifecycle Assessment (LCA)	19	0	0	Credits achieveable for carrying a Lifecycle Assessment (LCA) using an IMPACT compliant tool.	out now but limited benefit to design process as too far developed and would add additional cost	Credit not targeted							
6.3 Life Cycle Costing	Occupant's life cycle cost report	6	0	0	By end of RIBA Stage 2, element level life cycle cost (LCC) analysis to PD156865: 2008 carried out.	for analysis No LCC carried out before end of RIBA Stage 2	Credit not targeted							
	Component level life cycle cost optimisation	6	0	0	By end of RIBA Stage 4, a component level LCC carried out.	No LCC carried out. Technically feasible to carry out now but limited benefit to design process as too far developed and would add additional cost for analysis (circa £4k)	Credit not targeted							
6.4 Durability	Integral elements	5	5	-	Appropriate measures incorporated to limit degradation of materials integral to the building.	Credits achieveable based on design proposals.	Material specifications for substructure, superstructure, services and external works confirming measures designed to limit degradation	ECE / Reuby & Stagg	Completed template and referenced specifications/drawing	5	Site report confirming as built in line with design stage	Envision		
	Finishing elements	2	2	-	Appropriate measures incorporated to limit degradation of surface / finishing materials integral to the building.	Credits achieveable based on design proposals.	Finishes schedule for internal and external finishes confirming measures designed to limit degradation	ECE	Prelims Completed template	2	Site report confirming as built in line with design stage	Envision		
7 Space 7.1 Drying Space	External drying	1	To I	0	External drying facilities provided in secure space.	Requires external drying facilities (e.g. rotary	Credit not targeted							
Si ying Space	Executor of ying		Ĭ		and any ingression of the state	drier) to be provided. Not included in design.								





Credit Title	Sub Title	Available Credits	Predicted Cr	redits	Summary of Requirements (for details, see HQM One Technical Manual)	Project Specific Comment	Design Stage Assessment				Post Construction Assessme	nt		
			Targeted	Additional			Evidence Requirements	Responsibility	Evidence Received	Credit Achieved	Evidence Requirements	Responsibility	Evidence Received	Credit Achieved
	Internal drying	2	0	(+1 for some units	2 credits - tumble drier specified with A+ rating.) 1 credit - washer drier specified with A rating.	Credit only achievable for private units.	Manufacturer Specification of tumbler dryer and washing machine	ECE	GT / AV - Typical Kitchen layout (Type A) confirming specification of Siemens automatic washer dryer iQ500 WD15G421GB Siemens Manufacturer specification confirming A rating	(+1 for some	Site report confirming installation	Envision		
7.2 Access and Space	Nationally described space standards	5		(+5 for some units	Apartments meet Technical Housing Standards - Nationally Described Space Standard. Any built in storage shows an improvement over standard by 0.5m2.	Requires improvement for built in storage above standard to be achieved for all apartments to achieve credits. See derogations schedule which notes where dwellings and or storage do not meet London Housing Design Guide but will meet NDSS	Confirmation of compliance with Technical Housing Standards - Nationally Described Space Standard. Confirmed size of built in storage	ECE	DAS confirms of compliance with Technical Housing Standards Apt Type Drawings confirm size of built in storage	(+5 for some units)	Site report confirming as bu in line with design stage	It Envision		
	Accessible and adaptable design	6	0	0	Internal and external functional space meets Approved Doc M, and Accredited Access Consultant appointed at RIBA Stage 2 to conduct assessment/confirm compliance.	No appointment at RIBA Stage 2 of Accredited Access Consultant therefore not feasible	Credit not targeted							
7.3 Recyclable Waste	Consultation with the waste collection authority	2	2	-	Waste collection authority consulted to determine waste collection strategy.	Achievable based on consultation undertaken to date with relevant department at Camden.	Confirmation of consultation with waste collection authority	Cullinan Studio	Copies of email correspondence	2	As design stage			
	Internal waste storage	5	5	-	Internal recyclable waste storage with fixed units, minimum 30 litres capacity for 1-2 beds, and 40 litres for 3+ beds, + 10 litres for food waste.	Requirements included in design.	Internal waste storage design details	ECE	Stage 3 design Kitchen Layout / GF Plans confirm location of bins email confirmation Kitchen elevation drawings	5	Site report confirming as bu in line with design stage	t Envision		
	Composting facilities and management	3	3	-	All homes provided with composting facilities.	Requirements included in design.	Confirmation of composting facilities	ECE	Stage 3 design Kitchen Layout / GF Plans confirm location of bins email confirmation Kitchen elevation drawings	3	Site report confirming as bu in line with design stage	it Envision		



Based on HQM One Technical Standard (SD239 England August 2018)

HOME QUALITY MARK

Credit Title	Sub Title	Available Credits	Predicted C	Credits	Summary of Requirements (for details, see HQM One Technical Manual)	Project Specific Comment	Design Stage Assessment				Post Construction Assessmen	t		
		Credits	Targeted	Additional			Evidence Requirements	Responsibility	Evidence Received	Credit Achieved	Evidence Requirements	Responsibility	Evidence Received	Credit Achieved
8.1 Water Efficiency	Water efficient fittings	11	0	0	Table 52 of HQM One technical manual and overall modelled consumption less than 110l/p/d 8 credits - all water fittings meet optional standard and consumpton less than 110l/p/d 11 credits - all water fittings meet advanced standards in Table 52 and consumption less than 100l/p/d.	Specification of sanitary appliances achieves overall modelled consumption less than 110l/p/d. However to achieve minimum 5 credits, HQM One also requires 6 of water fittings to achieve the following optional standards: WCs - <4/2.6l dual flush Showers - <8l/min Basin taps - <5l/min Kitchen sink taps - <6l/min Dishwashers - <1.25l/place setting Washing machines and washer dryers - <8.17/kg Dishwashers are not provided, therefore all other optional standards need to be achieved, and whilst the WC is a water efficient specification, at 4.5l flush volume, this does not meet the above requirement. There are significant maintenance issues with specifying a lower flush toilet and this would incur additional cost to achieve, therefore credits are not targeted.	Credit not targeted							
	Water recycling	6	0	0	Rainwater or greywwater recycling systems specified for 50/100% of	Minimum requirement for Level 4 of My Not achievable without significant redesign.	Credit not targeted							
Delivery	Water recycling			0	WC flushing.	Not defice able without significant redesign.	C. Cuit not tangeted							
Delivery														
9.1 Project Preparation	Feedback from previou projects	s 4	0	0	Demonstrate lessons learnt from previous projects has been incorporated in design At Design Brief (RIBA Stage 1), an Outline Delivery Plan has been developed and kept up to date.	Credit not targeted as Outline Delivery Plan, meeting HQM requirements, not in place at RIBA Stage 1.	Credit not targeted							
	Project delivery plan	n/a	n/a	n/a	Minimum Requirements - Before detailed design (typically RIBA Stage 3), the Project delivery stakeholders (i.e. client, design team, principal contractor if appointed) have met to discuss requirements, roles/responsibilities, HQM performance targets - Before commencement of work on site, including demolition, construction management and inspection process established, meeting all requirements set out in HQM One technical manual (criteria 4a to 4g).	Requirement in place	Meeting minutes confirming: - Project design and client requirements for HQM; - Roles and responsibilities for HQM - Confirmed HQM targets Demolition, construction management and inspection procedures	вушк	Meeting minutes Demolition Management Plan Construction Management Plan "Delivering Quality Product at Bouygues UK"		As design stage			
	Product procurement and substitution policy	n/a	n/a	n/a	Minimum Requirement - client or principal contractor has a product procurement policy , including substitution clauses.	Requirement in place	Product procurement policy	ВУИК	"Delivering Quality Product at Bouygues UK"		Evidence demonstrating policy followed during construction (e.g. evidence of agreement on substitutions)	Bouygues		
	Dissemination of information	n/a	n/a	n/a	Minimum Requirement - processes in place to ensure project delivery plan and construction management processes above are communicated to all relevant trades - through toolbox talks/subcontractor briefings.	Requirement in place	Communication and training procedures for all relevant trades	ВУИК	"Delivering Quality Product at Bouygues UK"		Evidence of dissemination of information during construction	Bouygues		
	Site worker feedback	2	0	0	Client or prinicipal contract has documented policy and procedure for staff to make protected disclosures, which is displayed with contact details on construction site.	Credit not targeted as too onerous for contract.	Credit not targeted							
9.2 Commissioning and Testing	Commissioning building services and control systems	, n/a	n/a	n/a	Minimum Requirement - Management of commissioning in line with best practice, including appointment of specialist commissioning manager for complex systems.	Requirement in place	Confirmation commissioning plan meeting HQM requirements	ВУUК	Letter confirming compliance with HQN requirements		Commissioning certificates for all building services	Bouygues		





Credit Title	Sub Title	Available Credits	Predicted Credits	Summary of Requirements (for details, see HQM One Technical Manual)	Project Specific Comment	Design Stage Assessment Post Construction Assessment							
			Targeted Addition			Evidence Requirements	Responsibility	Evidence Received	Credit Achieved	Evidence Requirements	Responsibility	Evidence Received	Credit Achieved
	Fabric pre-testing	4	0 0	Inspection and pre-testing methods established for the site.	Credit not targeted as pre-testing fabric too onerous/costly.	Credit not targeted							
	Post construction testing	7	3 0	3 credits - Air leakage testing Additional 4 credits - Thermographic survey post construction as well	Air leakage testing assumed as will be required to complete EPCs. Additional credit thermographic surveying not achievable as too costly.		Ridge BYUK	letter of commitment confirming air leakage testing		Air leakage test results	Bouygues		
9.3 Inspections and Completion	Visual defects inspection	n/a	n/a n/a	Minimum Requirement - visual defects inspection prior to occupation.	Requirement in place	Confirmation of visual defects inspection	ВУИК	Letter of commitment confirming visual defects inspection		Visual defects inspection report including any outstanding remedial work, with confirmation issued to occupants prior to moving in	Bouygues		
	Construction inspection	n/a	n/a n/a	Minimum Requirement - appropriately qualified site based person carries out systematic and scheduled inspections of build quality.	Requirement in place	Confirmation of site person with responsibility for site inspections; Planned strategy for site inspections. Commitment to included HQM requirements in site inspections and ensure design variations are appropriately managed		Letter confirming responsibilities for construction inspections and inspection plan		Site inspection reports	Bouygues		
	Construction record	n/a	n/a n/a	Minimum Requirement - Construction record is kept demonstrating quality assurance measures taken.	Requirement in place	Commitment to keep construction record with dissemination, all in line with HQM requirements		Letter of commitment to keep construction record		Copy of Construction record and evidence of disseminatio			
	Right to inspect	2	0 0	Potential owners given right to carry out own non-invasive inspection, and any snagging issues resolved within 28 days.	Credit not targeted as too onerous for contract.	Credit not targeted							
	Feedback dissemination	1	0 0	Feedback on lessons learnt provided to client and project team for future projects.	Credit not targeted as too onerous for contract.	Credit not targeted							
	Third party verification	5	0 0	Person appointed to carry out construction inspections is an independent third party.	Credit not targeted as too onerous for contract.	Credit not targeted							
	Early inspection visit	4	0 0	Contracted commitment for early inspection 4-6 weeks after occupants moving in.	Credit not targeted as too onerous for contract.	Credit not targeted							
	Seaonal inspection visit	4	0 0	Contracted commitment for seasonal inspection between 8 and 12 months after occupation.	Credit not targeted as too onerous for contract.	Credit not targeted							





10 Construction Impacts		Credits			its Summary of Requirements (for details, see HQM One Technical Manual)	Project Specific Comment	Design Stage Assessment				Post Construction Assessment			
10 Construction Impacts			Targeted	Additional	,		Evidence Requirements	Responsibility	Evidence Received	Credit Achieved	Evidence Requirements	Responsibility	Evidence Received	Credit Achieved
	S									remered				remeved
10.1 Responsible Construction Practices	Responsible Construction Management	5	5	-	Responsible Construction Management based on Considerate Contractors Scheme score of: >25 to <35 - 2 credits >35 - 5 credits (plus BRE specific requirements that are good site management practices).	Credits assumed for targeting score of >35 for CCS, plus additional BRE requirement to ensure clear and safe access in and around buildings at point of handover.	Confirmation of commitment to achieving CCS score >35 plus agreement to meeting additional BRE requirements	ВҮИК	Letter confirming commitment to CCS + BRE requirements	5	CCS site report Site visit confirming clear and safe access at point of handover	Bouygues Envision		
10.2 Construction Energy Use	Contractor's energy efficiency checklist	2	2	-	Contractor completes energy efficiency checklist prior to commencement on site and carries out relevant onsite energy efficiency management measures.	Requirement in place	Completed energy efficiency checklist	BYUK	Project Environmental and Energy Management Plan	2	As design stage			2
	Energy monitoring and reporting	2	2	-	Target, monitor and report energy data during construction.	Requirement in place	Confirmation of commitment to target, monitor and report energy data	ВУИК	Letter of commitment and Project Environmental and Energy Management Plan	2	Copy of energy data	Bouygues		
	Weekly detailed monitoring and reporting	1	0	0	Have system in place to collect data on a weekly basis.	Weekly data collection considered too onerous - not standard practice.	Credit not targeted			•				
10.3 Construction Water Use		2	2	-	Contractor completes water efficiency checklist prior to commencement on site and carries out relevant onsite water efficiency management measures.	Requirement in place	Completed water efficiency checklist	: BYUK	Project Environmental and Energy Management Plan	2	As design stage			2
	Water monitoring and reporting	2	2	-	Target, monitor and report water data during construction.	Requirement in place	Confirmation of commitment to target, monitor and report water data	ВУИК	Letter of commitment and Project Environmental and Energy Management Plan	2	Copy of water data	Bouygues		
	Weekly detailed monitoring and reporting	1	0	0	Have system in place to collect data on a weekly basis.	Weekly data collection considered too onerous - not standard practice.	Credit not targeted							
10.4 Site Waste Management	Product procurement policy	1	0	0	By end of RIBA Stage 2, product procurement policy in place.	Not in place by end of RIBA Stage 2, therefore not achievable.	Credit not targeted							
	Construction resource efficiency	8	2	0		2 credits previously targeted. Will need to ensure requirements included in demolition and principal contractor requirements.	copy of pre-demolition audit copy of draft Resource Management Plan with confirmed waste target (<13.9m3/100m2 GIFA)	BYUK :	Pre-demo audit report; SWMP Commitment to target	; 2	Final version of Resource Management plan and waste records, confirming target achieved	Bouygues		
	Diversion of construction waste from landfill	2	2	0	Waste target met for % construction / demolition waste diverted from landfill 70% construction / 80% demolition = 2 credits 85% construction / demolition = 4 credits.	2 credits previously targeted. Will need to ensure requirements included in demolition and principal contractor requirements.	copy of draft Resource Management Plan with confirmed waste target (70% construction / 80% demolition diverted from landfill)	BYUK	SWMP Commitment to target	2	Final version of Resource Management plan and waste records, confirming target achieved	Bouygues		
	Diversion of excavation waste from landfill	3	0	0	Maximum credits achieved for above, plus 95% excavation waste diverted from landfill.	Maximum credits above not targeted therefore not feasible.	Credit not targeted							
11 Customer Experience		1 ,		1 ,	In the same of the		To a si a si si	Invana	In		1	1	T	
11.1 Aftercare	Building Warranty	n/a	n/a	n/a	Minimum Requirement - home covered by a Building Warranty.	Requirement meet by registering with NHBC.	Confirmation of requirement to register with NHBC	ВУИК	Commitment letter with confirmation of requirement		As design stage			
	Handover visit	n/a	n/a	n/a	Minimum Requirement - contracted commitment for Handover visit.	Requirement in place	Confirmation of contract requirement for handover visit, meeting defined HQM requirements	Arcadis / BYUK	Commitment letter with confirmation of requirement		As design stage			
	On-call support	4	0	0	Contracted commitment to provide oncall support for minimum 2 years (3 credits) or 3 years (4 credits).	Credit not targeted as too onerous for contract.	Credit not targeted							
11.2 Home Information	Home information	n/a	n/a	n/a	Minimum Requirement - Home Building User Guide to be prepared, including all contents set out in table 63 of HQM One technical manual, and provided to home occupants.	Requirement in place	Commitment to produce Home BUG, including agreement on content	, вушк	Commitment letter with confirmation of requirement		Copy of Home BUG and confirmation of issue to occupants	Bouygues		

envision 21/10/2020

MAITLAND PARK - HOME QUALITY MARK ASSESSMENT





Credit Title	Sub Title	Available Credits	Predicted	d Credits	Manual)	Project Specific Comment	Design Stage Assessment				Post Construction Assessment			
			Targeted	Additiona			Evidence Requirements	Responsibility	Evidence Received	Credit Achieved	Evidence Requirements	Responsibility	Evidence Received	Credit Achieved
11.3 Smart Homes	Connectivity to the home	2	1	0	Provision of broadband to the home:- 1 credit - superfast broadband (24Mbit/s) 2 credits - ultrafast broadband (100Mbit/s).	1 credit assumed feasible for good broadband provision. Addiitonal credits not feasible without incurring additional cost.	Specification confirming provision of broadband	Ridge	Broadband specification details	1	Site report confirming installation of broadband	Envision		
	Connectivity within the home	1	0	0	PHDS in place, with cable ducting.	Credits not feasible without incurring additional cost.	Credit not targeted				1		_	
	Smart Heating	2	0	0	Smart home devices installed at no additional cost to occupant to provide smart heating functionality.	Meeting strategy under review. Once agreed, wil confirm if additional 1 credits are achieved. Unlikely to affect overall HQM star rating achieved.	Credit not targeted							
	Smart lighting	1	0	0	Smart home devices installed at no additional cost to occupant to monitor and control lighting.	Credits not feasible without incurring additional cost.	Credit not targeted							
	Smart energy management	1	0	0	Smart home devices installed at no additional cost to occupant to monitor and control energy use of individual devices, additional lighting functionality, and display status/availability of LZC technologies where installed.	Meeting strategy under review. Once agreed, wil confirm if additional 1 credits are achieved. Unlikely to affect overall HQM star rating achieved.	Credit not targeted							
	Additional smart solutions	1	0	0	Smart home devices installed at no additional cost to occupant to monitor air quality, humidity, ventilation.	Credits not feasible without incurring additional cost.	Credit not targeted							
11.4 Post Occupancy Evaluation (POE)	Occupant satisfaction feedback and bill data	2	0	0	Commitment made for occupants invited to participate in POE and POE carried out 12-18months after occupation.	Credit not targeted as too onerous for contract.	Credit not targeted							
	Energy and termperature monitoring	3	0	0	Above credits achieved, plus energy and temperature data collected for one year to compare actual and predicted energy consumption.	Credit not targeted as too onerous for contract.	Credit not targeted							
	Advanced POE and independent third party	5	0	0	POE includes different audit types (see Table 65 of HQM One technical manual) and as carried out by an independent third party.	Credit not targeted as too onerous for contract.	Credit not targeted							