 SCC Developments - general requirements for futureproofed approach

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| **Element** | **Comment** | **Rationale** | **Developer response** |
| Window size | Use Thermal modelling and daylight software/ part L dynamic modelling for overheating. | Southern elevations may require brise Soleil, west and east elevations may require vertical shading |  |
| Window detailing | Window junctions to be designed without thermal bridging | In line with insulation layer. Fabric first approach |  |
| Window film | To be avoided as overheating strategy | The film helps with heat gain during summer but some heat gain during winter is useful |  |
| Balcony design/ canopies | Freestanding structures preferred vs. cantilevered. Large metal fixings also to be avoided. | Avoid thermal bridging in line with ‘fabric first approach’ |  |
| Air Tightness | As low as possible | In order to be in line with fabric first approach we need good air tightness close to 1m3/ (h.m2)@50 Pa |  |
| Bays & Dormers | Houses, avoid bay windows and dormers if possible | Avoid thermal bridging and heat loss |  |
| MHVR ventilation | Strategy to be considered regarding mechanical ventilation | Consider strategy of MVHR types if terminals will be visible on elevations |  |
| u-values | See SCC Energy Guidance for new developments 2021-2025 which can be found here [Sustainability checklist (southampton.gov.uk)](https://www.southampton.gov.uk/sustainability) | Fabric First approach |  |
| Passivhaus | Consider uplift to full passivehaus standards on suitable plots with good orientation and form | To avoid retrofitting in future |  |
| Heating Strategy | Futureproofing of services should be considered (for example oversizing of radiators ready for a heatpump) | Futureproofing |  |
| Roof Orientations | Size and position to maximise solar panel potential | Allow for maximum renewable energy generation. |  |
| Water Use | Maximum 100 l/p/d internal water use, rainwater harvesting. | Reduce water resource pressures |  |
| Green Infrastructure | Maximise use of Green Infrastructure such a green roofs | Biodiversity, climate adaptation and resilience |  |