## Appendix 2: URA's revised GFA definition

## GFA Definition

1. All covered floor areas of a development and all uncovered areas used for commercial purposes (e.g. outdoor refreshment area) will continue to be computed as GFA, but with the following changes:
a) GFA will now be measured up to the middle of external walls, party walls and other similar external building features (e.g. curtain walls, railings, parapet walls) (see Diagrams 1 to 4 in Appendix 2-1).
b) Where there are connecting external walls with varying thickness, a 50 mm offset will be allowed to accommodate the change in wall thickness. This is to align with the current industry practice for demarcating strata area (see Diagram 5 in Appendix 2-1).
2. All strata areas will be computed as GFA. Today, private roof terraces and private enclosed spaces (even if uncovered) are already computed as GFA. Under the revised GFA definition, all uncovered areas that form part of the strata area of the development will be computed as GFA (e.g. car parks included as part of a strata unit or an accessory strata lot). Ledges for equipment that are exclusive to a strata unit such as air-conditioner (AC) ledges ${ }^{4}$ that are included as strata area will be computed as GFA. However, developers who propose to retain AC ledges as common property can continue to exclude such AC ledges from GFA5.

## GFA Exemption Areas

3. AC ledges that are proposed to be retained as common property are similar to reinforced concrete (RC) ledges. Hence, such common property AC ledges will now be exempted from GFA up to 2 m in width, to align with the current GFA treatment for RC ledges.
4. There will be no change in the basis for GFA exemption policies. Covered communal floor areas that fulfil URA's GFA exemption criteria can continue to be exempted from GFA ${ }^{6}$.

[^0]5. There are some areas that are subject to a minimum or maximum width criteria before GFA exemption can be considered (e.g. minimum 5 m width for sky terraces, maximum 2 m width roof eaves). For such cases, the measurement of this minimum / maximum width will continue to be based on the net width of the spaces (i.e. exclude the width of the adjoining walls) (see Diagrams $6 \& 7$ in Appendix 2-1).

## Submission Requirements

Inclusion of strata boundaries in submission drawings to URA
6. For development applications involving proposed strata-titled developments, QPs are required to include the proposed strata boundaries as a separate layer within the CAD or BIM submission drawings for agencies' reference. QPs should finalise these strata boundaries early and avoid unnecessary downstream adjustments, as changes to strata area may have an impact on the development's GFA figures.

## Appendix 2-1: URA's revised GFA definition - Supplementary Diagrams

| S/N | Diagrams |
| :---: | :---: |
| Diagram 1 GFA treatment of external wall |  |
| Diagram 2 GFA treatment of curtain wall |  |
| Diagram 3 GFA treatment of balcony |  |


| Diagram 4 <br> Measure to middle of shared wall |  |
| :---: | :---: |
| Diagram 5 GFA demarcation for building with walls of different thickness |  |



## Appendix 3: SLA's revised strata definition

| Principles | Application |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Removal of voids | Voids (internal and external) will be excluded from strata area computation. In the Strata Certified Plan (CPST), voids will be indicated for reference only (see Diagrams 1 and 2 for examples of the CPST and area tabulation). <br> Diagram 1: Example of CPST for a penthouse unit with internal voids <br> Diagram 2: Example of CPST for a strata bungalow with external voids <br> NB: Building / wall details shown in red and description 'External void space is excluded from Total Strata Area' is only for illustration purposes |  |  |  |  |  |  |
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## Appendix 4: BCA's and SCDF's revised floor area definition

| Floor area <br> definition <br> (Agency) | Changes | Explanation |
| :--- | :--- | :--- | :--- |
| Statistical <br> gross floor <br> area | Align and <br> simplify the <br> computation | SGFA refers to the total floor area of a building, regardless of the usage of the space. <br> BCA and SCDF have worked together to harmonise and simplify SGFA computation. <br> This minimises potential confusion and unnecessary iterations and the industry no <br> longer needs to compute two sets of floor areas for both agencies. |
| SCDF) |  |  |


|  |  | Table 1b: Minimum internal st | shelter (SS) floor area and volume |
| :---: | :---: | :---: | :---: |
|  |  | Gross Floor Area (GFA)* of Dwelling Unit | Nominal Occupancy of Dwelling Unit <br> (No. of persons catered for in SS) |
|  |  | $\mathrm{GFA} \leq 45 \mathrm{~m}^{2}$ | 2 |
|  |  | $45 \mathrm{~m}^{2}<\mathrm{GFA} \leq 75 \mathrm{~m}^{2}$ | 3 |
|  |  | $75 \mathrm{~m}^{2}<\mathrm{GFA} \leq 140 \mathrm{~m}^{2}$ | 4 |
|  |  | $\mathrm{GFA}>140 \mathrm{~m}^{2}$ | 5 |
|  |  | Area of Storey Shelter $=$ TN Volume of Storey Shelter $=$ TNO $=$ Total Nominal Occu $\square$ Based on revised GFA definition $\square$ Continue to be based on net she $\quad \$$ | $0.6 \mathrm{~m}^{2}$ <br> $0 \times 1.8 \mathrm{~m}^{3}$ <br> y of units served by Storey Shelter <br> omputation to the middle of the wall) <br> area and volume (exclude thickness of the wall) |
| Ventilation requirement (BCA) | Computation to the middle of the walls | If natural ventilation is adopted in a buid be at least $5 \%$ of the floor area that it of the wall. | ng, the opening for ventilation is required to ventilating, which is measured to the middle |
| Accessible floor area (SCDF) | Computation to the middle of the walls | SCDF will allow the measurement of middle of the wall, if the QP has asse Examples 1 and 2). Nevertheless, th on the net floor area to comply with th <br> Example 1: Fire safety <br> Some fire safety requirements are accessway). For most cases, measu additional fire safety provisions. Howev when AFA | A and other fire safety requirements to the dhat fire safety design is not impacted (see P may also choose to compute AFA based e safety requirements. <br> uirements derived from AFA <br> d on tiers of AFA ranges (e.g. fire engine ent to the middle of the wall will not lead to dditional fire safety provisions may be required se to the next tier. |




[^0]:    ${ }^{4}$ QPs must still ensure that AC ledge designs continue to meet BCA's design for maintainability guidelines to ensure ease of maintenance (refer to Clause 3.1.2 (a) and 3.1.2 (b) under the Maintainability Section for Residential Building here).
    ${ }^{5}$ Developers should consider design solutions at the building design stage to safeguard direct access to the common property AC ledges by the MCST for downstream access and maintenance.
    ${ }^{6}$ Some communal spaces may fall within private strata lots due to the need for the demarcation of ownership (e.g. sky terraces within a mixed use development). Such communal spaces will continue to be considered for GFA exemption if they fulfil the GFA exemption criteria.

