

ITM Outcome Requirements for BE Transformation GFA Incentive Scheme

Building Type	(A) Digitalisation ⁶	(B) Productivity ⁷	(C) Sustainability ⁸
Residential <ul style="list-style-type: none"> ▪ Condominium ▪ Flat developments 	<ul style="list-style-type: none"> • Minimum five (5) Integrated Digital Delivery (IDD) essential use cases covering three (3) stages of life cycle with at least one (1) use case per stage • Use of Common Data Environment (CDE) data standard and CDE compliant digital platform 	<ul style="list-style-type: none"> • Minimum 65% Prefabricated Prefinished Volumetric Construction (PPVC) • Minimum 65% Prefabricated Mechanical Electrical & Plumbing (Prefab MEP) systems • Minimum 70% System Formwork • Quality Mark (QM) <p>OR</p> <p>Requirements stipulated for developments classified under Building Type - Others</p>	<p>GM Platinum Super Low Energy (SLE) with Maintainability Badge*</p> <p><i>* exemplary performance (that is 10 out of 15 points) under the Maintainability Section in GM 2021 framework</i></p>
Non-Residential <ul style="list-style-type: none"> ▪ Commercial ▪ Industrial ▪ Institutional 	<ul style="list-style-type: none"> • Minimum five (5) Integrated Digital Delivery (IDD) essential use cases covering four (4) stages of life cycle with at least one (1) use case per stage • Use of Common Data Environment (CDE) data standard and CDE compliant digital platform 	<p><u>Hotel</u></p> <ul style="list-style-type: none"> • Minimum 65% PPVC • Minimum 65% Prefab MEP systems • Minimum 70% System Formwork <p><u>Office</u></p> <ul style="list-style-type: none"> • Structural Steel (SS) for minimum 80% of total office area • Minimum 65% Prefab MEP systems • Minimum 70% System Formwork <p>OR</p> <p>Requirements stipulated for developments classified under Building Type - Others</p>	<p>GM Platinum SLE with Maintainability Badge*</p> <p><i>* exemplary performance (that is 10 out of 15 points) under the Maintainability Section in GM 2021 framework</i></p>

⁶ More details at [https://www1.bca.gov.sg/buildsg/digitalisation/integrated-digital-delivery-idd/idd-implementation-plan_and http://www1.bca.gov.sg/buildsg/digitalisation/integrated-digital-delivery-idd/cde-data-standard](https://www1.bca.gov.sg/buildsg/digitalisation/integrated-digital-delivery-idd/idd-implementation-plan_and_http://www1.bca.gov.sg/buildsg/digitalisation/integrated-digital-delivery-idd/cde-data-standard)

⁷ More details at <https://www1.bca.gov.sg/buildsg/productivity/design-for-manufacturing-and-assembly-dfma>

⁸ More details at <http://www1.bca.gov.sg/buildsg/sustainability/green-mark-certification-scheme/green-mark-2021>

Building Type	(A) Digitalisation ⁶	(B) Productivity ⁷	(C) Sustainability ⁸								
<p>Mixed-Use Development</p> <ul style="list-style-type: none"> ▪ Combination of the above building types <p>Others</p> <ul style="list-style-type: none"> ▪ Non-Residential development not specified above ▪ Developments subject to review by URA's Design Advisory Panel⁹ 	<ul style="list-style-type: none"> • Minimum five (5) Integrated Digital Delivery (IDD) essential use cases covering <ul style="list-style-type: none"> - Three (3) stages of project lifecycle for private residential sites - Four (4) stages of project lifecycle for private commercial/ industrial sites <p>with at least one (1) use case per stage</p> <ul style="list-style-type: none"> • Use of Common Data Environment (CDE) data standard and CDE compliant digital platform 	<ul style="list-style-type: none"> • Minimum 30% productivity improvement (compared to 2010 levels) • Minimum prefabrication levels to be adopted for the following systems: <table border="1" data-bbox="767 472 1029 658"> <tbody> <tr> <td>Structural*</td> <td>65%</td> </tr> <tr> <td>Architectural</td> <td>80%</td> </tr> <tr> <td>Prefab MEP systems</td> <td>65%</td> </tr> <tr> <td>System Formwork</td> <td>70%</td> </tr> </tbody> </table> <p><i>*minimally Advanced Precast Concrete System to be adopted</i></p> <ul style="list-style-type: none"> • QM for Residential Non-Landed component of the development. 	Structural*	65%	Architectural	80%	Prefab MEP systems	65%	System Formwork	70%	<p>GM Platinum SLE with Maintainability Badge* for the respective residential and non-residential component of the development, where relevant.</p> <p><i>* exemplary performance (that is 10 out of 15 points) under the Maintainability Section in GM 2021 framework</i></p>
Structural*	65%										
Architectural	80%										
Prefab MEP systems	65%										
System Formwork	70%										

⁹ Excludes development proposals submitted under the SDI/CBD incentive scheme. The required ITM outcomes for SDI/CBD incentive scheme development proposals will be separately assessed in relation to the context of the proposal, upon submission of the outline application for the SDI/CBDI development proposal.