

TABLE: COMMENTS TO FEEDBACK FROM DR TAN GUAN

Regulation	Feedback	BCA Comments
<p><u>9(2)(h)</u> Particulars to be shown on detailed structural plans and design calculations – to indicate the fixing and framing details of any external cladding and safety barriers against falling from a height (if applicable).</p>	<p><u>Dr. Tan Guan, Chairman, C&S Practices Committee, ACES</u> In general, the design and installation of special trades are carried out by the specialist builders in according to the performance specifications provided by the respective QPs in Architectural, C&S or M&E. Many of such trades are proprietary systems that conform to the performance specifications. For example, curtain wall system consists of architectural components and its fixing and installation details. It may be convenient to hold the specialist's PE in civil discipline responsible for the design not within his/her control. The PE who certifies the system is required to warrant something that is physically done by somebody else not within his/her expertise or close proximity. Such warranty is neither equitable in law nor commercially insurable.</p>	<p>Regulation 9 states the particulars to be included in submission drawings. It does not prescribe who should make the submission for any particular item. In all cases, submission is to be made by the designer of the system, who may or may not be the building QP. The responsibility for structural design lies with a QP who is a registered professional engineer. If the QP for the main structure is not willing to undertake the design of a specific structural element, there is provision in the Act for another QP to be appointed to undertake that design. As for proprietary product where there is a need for the structural elements to be designed to meet the required safety standards, the QP should satisfy himself that the <u>structural</u> design meets the requirements in the Act, regulations and design code of practice; and he should be expected to provide such certification to the CBC.</p>
<p><u>21(3)</u> Permit to carry out structural works – to submit method statement and</p>	<p><u>Dr. Tan Guan, Chairman, C&S Practices Committee, ACES</u> The impact assessment report for demolition works would</p>	<p>There is no requirement for a specialist builder for demolition. The QP who submits an application for permit to carry</p>

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impact assessment of demolition works	depend on the sequence and machinery deployed for the demolition works. The specialist builder would be in a better position to submit the impact assessment report to BCA.	<p>out demolition works will detail how the demolition work is to be carried out. He is thus the appropriate person to prepare the impact assessment. He could obtain inputs from the builder.</p> <p>There is nothing in the Act and Regulations to prevent the demolition builder's PE from being the QP for the demolition works so long as he is not a partner, an officer, an employee or associate of the builder.</p>
<p><u>22(a)</u> Site records</p>	<p><u>Dr. Tan Guan, Chairman, C&S Practices Committee, ACES</u></p> <p>The schedule of structural works to be carried out on site or off site should be furnished by the main contractor who has control of the specialist builder.</p>	<p>This regulation specifies records to be kept and maintained at the site by the QP. It does not specify who should furnish the records, and it is common for the QP to ask the builders to furnish the information since QP also needs to know in order to plan for the supervision.</p>
<p><u>22(w)</u> Site records to be kept - a record of tests on fixings of external claddings and safety barriers against falling from a height</p>	<p><u>Dr. Tan Guan, Chairman, C&S Practices Committee, ACES</u></p> <p>The records of tests on fixings of special trades are under the control of respective QPs in accordance with their performance specifications.</p> <p>The amended regulations should not conveniently hold a QP responsible for the special trade that under his/her charge.</p>	<p>The records are to be kept and maintained at site by the QP who submits the plans for the special trade. This QP may or may not be the same QP for the superstructural works.</p>