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ARAB ENGINEERING BUREAU

8 MATERIALS [M]

8.1 GENERAL

8.1.1 Scope

- 1 The Material category consists of factors associated with material extraction, processing, manufacturing, distribution, use/reuse, and disposal.
- (a) Impacts: Environmental impacts resulting from material use and unsustainable practices include:
- (i) Material depletion
 - (ii) Climate Change
 - (iii) Fossil Fuel Depletion
 - (iv) Air Pollution
- (b) Mitigate Impact: Factors that could mitigate environmental impact due to material use include:
- (i) Using local Materials to reduce transportation needs
 - (ii) Using responsibly sourced materials
 - (iii) Using materials with high recycled contents
 - (iv) Recycling and Reusing materials, on-and off-site
 - (v) Reusing structural elements, on-and off-site
 - (vi) Designing for ease of disassembly and reuse/recycling

8.1.2 Reference

- 1 The following documents are referred to in this section:
Global Sustainability Assessment System (GSAS) - V2.1 2013,

8.2 MATERIALS [M.1] REGIONAL MATERIALS

8.2.1 Scope

- 1 The Regional Materials shall be measured for the following categories of the buildings

Table 1: Building Typology

Commercial
Governmental
Education
Mosques
Light Industry
Health Centres
Sports
Railways

8.2.2 Description

- 1 Encourage the use of regionally manufactured and assembled building elements and materials in order to reduce the carbon footprint of the materials

8.2.3 Measurement Principle

- 1 All projects shall use materials that are regionally manufactured and assembled

8.2.4 Measurement

- 1 All projects shall complete the Regional Materials Calculator to compute a Performance Indicator based on the weight and sourcing distance of all applicable materials. Materials sourcing distance can either be regional (less than or equal to 200 kilometres) or external (over 200 kilometres). All projects will only consider materials permanently installed in the project. Exclude mechanical, electrical, and plumbing assemblies, as well as specialty items and equipment.

8.2.5 Score

Table 2: Recommended minimum Score for QCS's Building Typologies

Performance Indicator (X)	20 ≤ X ≤ 30
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END OF PART