



1.2 Developing low-carbon green building curtain wall materials, creating new value for green buildings

A 2021 study by the United Nations Environment Programme (UNEP) pointed out that building and construction materials account for up to 10% of global greenhouse gas emissions, making carbon reduction actions in the construction and building industries imperative. To meet the demand for carbon reduction in building materials, CSAC has developed low-carbon green building curtain wall materials with the designation CNS 2253 A3004P-O (as shown in the figure below). Through special casting techniques, these materials achieve a recycled Aluminium content of over 60% and were certified by the Environment and Development Foundation (EDF) in January 2024. This low-carbon green building curtain wall material has four major advantages (as described below), far superior to other Aluminium curtain wall materials. In the future, we will continue to promote low-carbon circular building materials to help the construction and building industries reduce carbon emissions and create new value for green buildings together.

1. Low carbon emissions.
2. Compliance with the 3R principles of Reduce, Reuse, and Recycle, which can improve green building rating scores and meet the demand for low-carbon building materials.
3. Benchmarking public engineering specifications.
4. High strength and high formability, with performance superior to other Aluminium grades such as 1100-H14 and 3003-H14.



▲ CNS 2253 A3004P-O Aluminium material for curtain walls.