

BIS : CED 46: P6

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## INTRODUCTION & OVERVIEW

### GRAND VISION / GOALS

Environmental Sustainability, Environmental and Economic life Cycle, mobilising ESG Committed Funds

The grand vision is to create (1) an environmental life cycle, (2) a sustainable building material and net-zero building life cycle, and (3) an economic life cycle in building construction. AND (4) Attracting Off-takers / buyers based on Net-Zero

### CLIMATE CRISES & RESOLUTIONS

WHITE PAPER : SEEDING TO BUILDING LEADING TO NET-ZERO

MASSTIMBER COMPONENTS AND IBC 2021

TIMBER / MASSTIMBER /  
MASSTIMBER COMPONENTS / MASSTIMBER CONSTRUCTION – RECOGNITIONS AND FIRE CODES

BUILDING CODES,  
ENERGY CONSERVATION CODE,  
FIRE CODE AND  
MECHANICAL CODE

**A rigorous set of performance objectives adoption to provide guidance in the development**

**Code Performance objectives :**

- No collapse under reasonable scenarios of complete burn-out of fuel without automatic sprinkler protection being considered.
- No unusually high radiation exposure from the subject building to adjoining properties to present a risk of ignition under reasonably severe fire scenarios.
- No unusual response from typical radiation exposure from adjacent properties to present a risk of ignition of the subject building under reasonably severe fire scenarios.

## **A rigorous set of performance objectives adoption to provide guidance in the development**

- No unusual fire department access issues.
- Egress systems designed to protect building occupants during the design escape time, plus a factor of safety.
- Highly reliable fire suppression systems to reduce the risk of failure during reasonably expected fire scenarios. The degree of reliability should be proportional to evacuation time (height) and the risk of collapse.

## Technical Resources:

On behalf of the industry it represents, the **American Wood Council (AWC)** is committed to ensuring a resilient, safe, and sustainable built environment. To achieve these objectives, AWC contributes to the development of sound public policies, codes, and regulations which allow for the appropriate and responsible manufacture and use of wood products. We support the utilization of wood products by developing and disseminating consensus standards, comprehensive technical guidelines, and tools for wood design and construction, as well as providing education regarding their application. For code assistance email [info@awc.org](mailto:info@awc.org).

## Technical Resources:

The **International Code Council (ICC)** is a nonprofit association that provides a wide range of building safety solutions including product evaluation, accreditation, certification, codification and training. It develops model codes and standards used worldwide to construct safe, sustainable, affordable and resilient structures. The mission of the Code Council is to provide the highest quality codes, standards, products and services for all concerned with the safety and performance of the built environment. ICC Evaluation Service (ICC-ES) is the industry leader in performing technical evaluations for code compliance fostering safe and sustainable design and construction.

**888-ICC-SAFE (888-422-7233)**

**[www.iccsafe.org](http://www.iccsafe.org)**

**WoodWorks – Wood Products Council**

## Technical Resources

**WoodWorks – Wood Products Council** provides education and free technical support related to the design, engineering and construction of commercial and multi-family wood buildings in the US A non-profit organization staffed with architects, structural engineers and construction experts, WoodWorks has the expertise to assist with all aspects of wood building design, including

(but not limited to): allowable heights and areas/construction types, structural

detailing of wood and hybrid systems, fire resistance and acoustical-rated assemblies, efficient and code-compliant lateral system design, alternate means of code compliance, and energy-efficient detailing. For assistance with a project, visit

**[www.woodworks.org/project-assistance](http://www.woodworks.org/project-assistance)** or email [help@woodworks.org](mailto:help@woodworks.org).

Visit our

**[website at www.woodworks.org](http://www.woodworks.org)**