

would otherwise be charted for commercial agriculture. And responsible forestry certifications are increasingly pervasive—especially in North America, where studies have shown the continent's forests grow enough wood

have shown the continent's forests grow enough wood for a 20-story building every eight to 10 minutes. Of course, when it comes to 20-story buildings made of wood, the first concern is fire. But extensive studies have shown that CLT acts more like concrete than any logs you'd light at a campfire—at times even outperforming steel. If not coated properly with protective materials, steel melts when exposed to fire, whereas the density of CLT panels allows their outer layers to char slowly, insulating the wood within from damage. According to Vancouver-based architect Michael Green, false assumptions about flammability are one of the last things holding tions about flammability are one of the last things holding the wood revolution back.



"People just think, 'That's going to burn,'" says Green, who became the movement's unofficial spokesperson after a popular TED Talk he gave on the subject in 2013. "But we have to make these buildings perform to such a high standard—actually, the exact same standard as steel and concrete buildings—that the risk of fire is actually extremely low."

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While computerized engineering has enabled largescale dramatics never before thought possible in architecture, there is currently something of a disconnect
between the industry's commitment to sustainability and
its celebration of bold-faced names like Frank Gehry,
Santiago Calatrava and Jean Nouvel, whose designs
demand extravagant funds and resources. Green argues
that the outlandish angles and curves of contemporary
architecture, which often require double the steel and
concrete, can never be truly modern because of their
disregard for the planet. "These buildings by the icons
are pretty forms—if you were buildings by the icons
are pretty forms—if you were building a sculpture
that sat on your desk," he says. "But the global impact
on the environment is horrendous. Truthfully, it's like
driving a Hummer; it's the garbage of our industry. I
think this is the beginning of the climate era of architecture, where we'll have a different set of rules that
define what modern should be." ■



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