BUILDING CODE REVIEW

The truth about Noncombustible Construction

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IBC Construction Types by Fire Resistance:

(This is the highest level of fire resistance)	Fire Resistive	Non-Combustible	Ordinary	Heavy Timber	Wood Frame
Type	**Type I**	Type II	Type III	Type IV	Type V
Resistance (Hours)	**3–4**	1–2	0–2	0–1	–
Description	**All building elements are noncombustible**		Exterior walls are noncombustible (e.g. brick); interior structural elements may be combustible	Exterior walls are noncombustible; interior is of solid or laminated wood without concealed spaces	All building elements are combustible
Found In	**High-rise buildings, commercial, hospitals**	Mid-rise offices, hotels, school buildings	Warehouses, homes	Various applications	Single-family homes
	Type I	Type II	Type III / Type IV		Type V
	THIS IS PHNX: **Made possible for the first time in single-family homes with our patent-pending PHNX Longspan™ roof assembly**	This has lower fire resistance. Other contractors still can't build a Type II single-family home structure without the PHNX Longspan™ roof assembly	Many builders claim noncombustible, but traditional wood framing and wood sheathing on the roof is tinder for flying embers... THIS IS MISLEADING		Traditional construction = FULLY COMBUSTIBLE

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Type I is further classified as Type IA or Type IB, with IA being the most stringent. **PHNX is the ONLY company to build to Type IA standards** – no others have the capability of building to Type IB or Type II, either – the other two highest levels of noncombustible standards. ***Why?*** The most challenging barrier to removing wood from the structure in residential construction, especially single-family, has been eliminating the plywood sheathing in the roof. It provides important lateral stability and there are no feasible noncombustible alternatives. This is where the patent-pending PHNX Longspan™ System comes in; our proprietary roof and floor framing system addresses the lateral stability problem and solves it, wood-free.