Fire retardant wood cladding

Guidelines and checklist
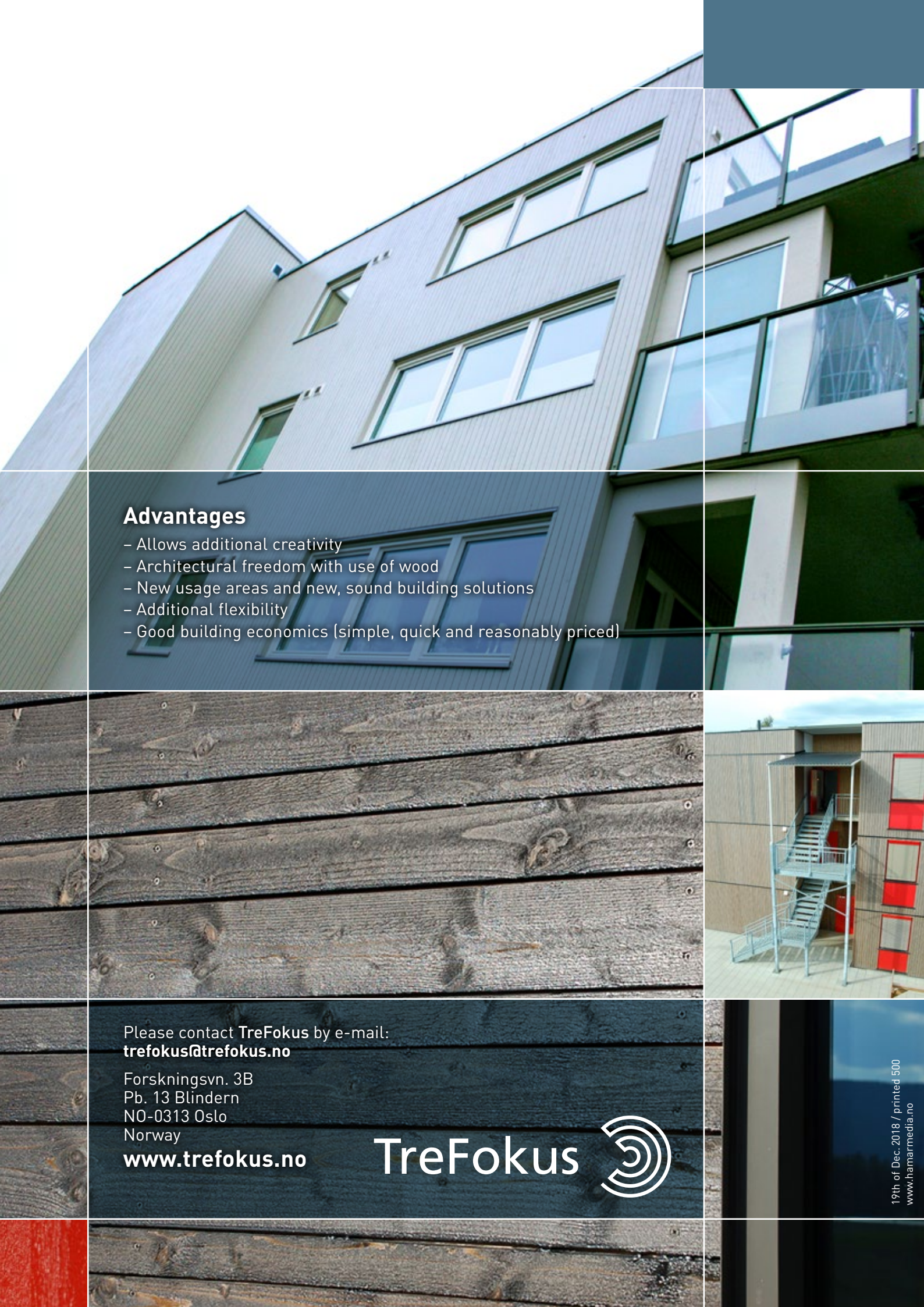
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CHECK POINT		Comments
CERTIFICATION Businesses that market a fire classified product must hold a certificate from a notified certification body.	☐ Yes Cert. no.:......................... ☐ No	*This means that the manufacturer must have a quality management system, an agreement with a notified certification body concerning annual inspection of production from an appointed control body, and hold a certificate of constancy of performance.*
FIRE CLASSIFICATION The certificate must state which fire class applies to the specific product. Applies only to classification of surface.	☐ B-s1,d0 ☐ B-s2,d0/B-s3,d0	*The certificate applies for reaction to fire and not fire resistance as $K_2 10$.*
DECLARATION OF PERFORMANCE The declaration of performance states the performance of the product according to the requirements in the product standard.	☐ Declaration of performance ☐ Declaration of performance not provided	*The declaration of performance must be provided either in paper form or on the supplier's web site. Check that the declaration of performance contains the same facts as the certificate.*
MOM All products must have a MOM (Management, Operation and Maintenance) document.	☐ MOM provided ☐ MOM not provided	*The MOM document describes the product, transport requirements, storage prior to installation, commissioning (if applicable) and maintenance routines.*
TREATMENT METHOD Amount added/applied and treatment method must be specified in the certificate.	☐ Impregnated with fire retardant ☐ Painted with fire retardant	*Fire retardant is stated as amount of dry chemical in relation to dry timber.* *Fire retardant paint is stated as amount per m^2 wet film.*
WOOD MATERIAL The certificate states which types of wood/wood species, including any processing of the wood in the form of e.g. heat treatment, that have been tested and approved.	☐ wood material stated in certificate ☐ wood material not stated	*Impregnated with fire retardant:* *Each individual wood material must be tested.* *Painted with fire retardant:* *When tested on 12 mm chipboard, applicable to all wood products with thickness of ≥ 10 mm and density of ≥ 472 kg/m^3, or when tested on 9 mm plywood applicable to all wood products with thickness of ≥ 8 mm and density ≥ 300 kg/m^3.*
THICKNESS The thickness of the certified product, or if an EXAP report is given, the thickness as value equal to or greater than.	☐ A specified thickness ☐ Thickness from-to:......................... ☐ $\geq$ in mm:.........................	*The certificate states under individual options whether the product is approved for a specific thickness or a minimum thickness/greater than thickness.* *The latter will refer to an EXAP report.*
SURFACE STRUCTURE Surface structure applies only to industrially fire retardant painted wood products.	☐ Sawn ☐ Planed	*The certificate must state whether the product is certified for either sawn, planed or both surface structures.*
DENSITY The certificate states the densities for which the product is approved.	☐ Certificate covers the density ☐ Certificate does not cover the density	*Check that the relevant wood material is tested according to the density of the wood species supplied.*
SURFACE TREATMENT Most cladding types are surface treated. Exterior cladding must be fire tested with the surface treatment applied.	☐ Untreated ☐ Primer ☐ Primer and intermediate coat	*The certificate must state whether the product is approved with surface treatment, type and quantity.*

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DIRECTION OF INSTALLATION Vertical or horizontal cladding.	☐ Vertical ☐ Horizontal	*The options in the certificate state the direction of installation for which the product is approved.*
JOINTS Horizontal or vertical.	☐ Horizontal ☐ Vertical	*The certificate states under individual options whether the product is approved for horizontal, vertical or both orientations of joints.*
INSTALLATION The cladding is normally installed with a ventilated air gap between the cladding and the underlying substrate.	☐ Ventilated cladding ☐ Air gap, but not ventilated ☐ No air gap	*Ventilated cladding must be tested with a 40 mm air gap. This must be stated on the certificate.* ***NB! Fire regulation requirements in cavities.***
SUBSTRATE This means the product directly behind the cladding.	☐ Plasterboard ☐ wood-based substrate with minimum 10 mm thickness.	*The certificate will state the type of substrate and substrate thicknesses approved for use behind the cladding.*
SUITABILITY FOR USE This means that the product has been tested and approved for use outdoors. Not part of the certification.	☐ Classified EXT according to EN 16755/CEN TS 15912/NS INSTA 054 ☐ Not tested	*Check that the relevant wood material is tested in accordance with the density of the wood species supplied.*
SCREWS AND FASTENERS		*It is extremely important that screws according to the manufacturer's instructions are used to attach cladding boards with fire protection. In addition, the correct type of fasteners must be used, in accordance to the manufacturer's recommendations.*

Advantages

– Allows additional creativity
– Architectural freedom with use of wood
– New usage areas and new, sound building solutions
– Additional flexibility
– Good building economics (simple, quick and reasonably priced)

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