

Fire retardant timber cladding

Guidelines and checklist

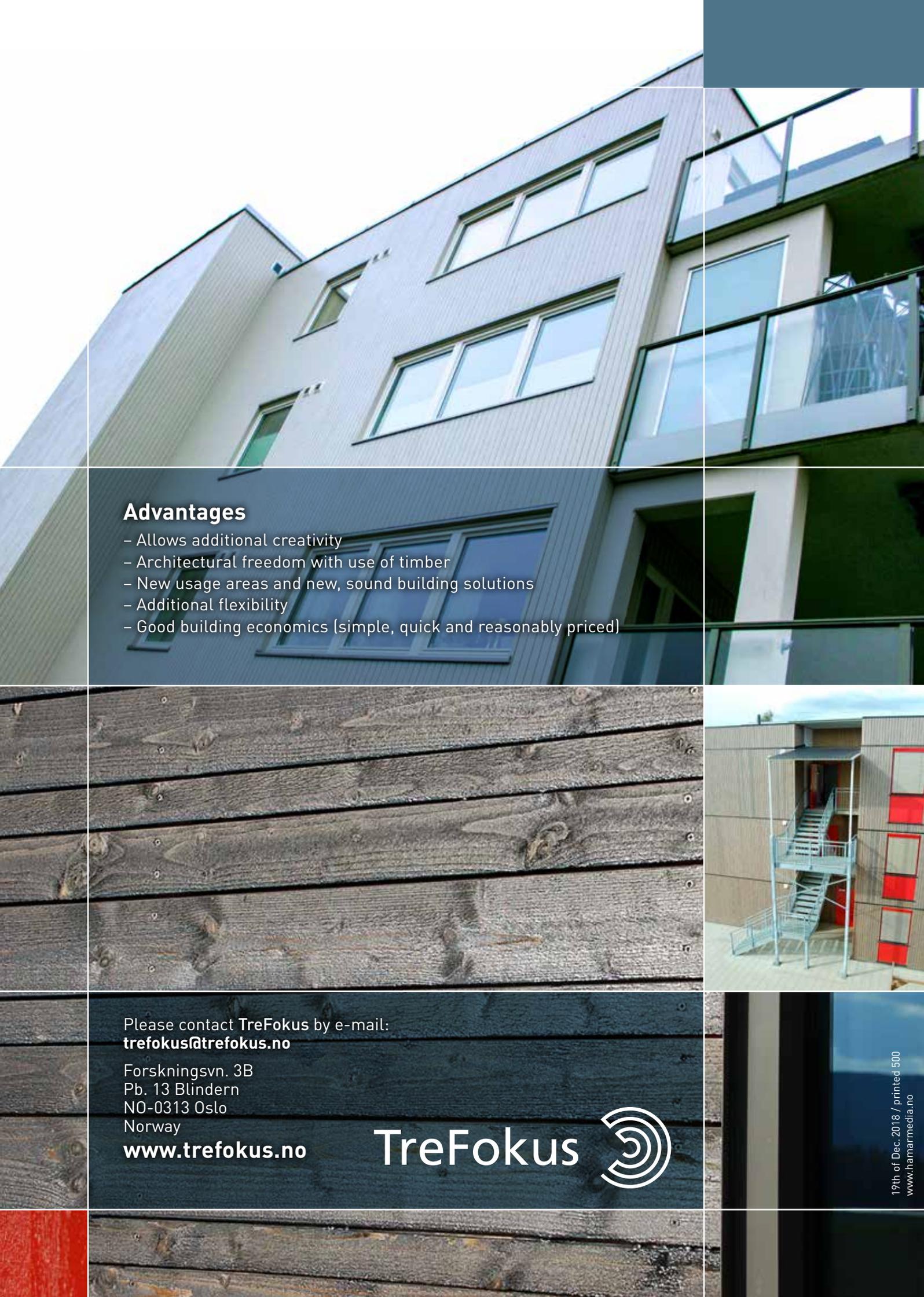
TreFokus



CHECK POINT		Comments
<p>CERTIFICATION</p> <p>Businesses that market a fire classified product must hold a certificate from an authorised certification body.</p>	<input type="checkbox"/> Yes Cert. no.: <input type="checkbox"/> No	<p><i>This means that the manufacturer must have a quality assurance system, an agreement with a certifying body concerning annual inspection of production from an appointed control body, and hold a certificate of constancy of performance.</i></p>
<p>FIRE CLASSIFICATION</p> <p>The certificate must state which fire class applies to the specific product. Applies only to classification of surface.</p>	<input type="checkbox"/> B-s1,d0 <input type="checkbox"/> B-s2,d0/B-s3,d0	<p><i>The certificate only includes classification for surfaces and not classification as cladding K210.</i></p>
<p>DECLARATION OF PERFORMANCE</p> <p>The declaration of performance states the performance of the product according to the requirements in the product standard.</p>	<input type="checkbox"/> Declaration of performance <input type="checkbox"/> Declaration of performance not provided	<p><i>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.</i></p>
<p>MOM</p> <p>All products must have a MOM (Management, Operation and Maintenance) document.</p>	<input type="checkbox"/> MOM provided <input type="checkbox"/> MOM not provided	<p><i>The MOM document describes the product, transport requirements, storage prior to installation, commissioning (if applicable) and maintenance routines.</i></p>
<p>TREATMENT METHOD</p> <p>Amount added/applied and treatment method must be specified in the certificate.</p>	<input type="checkbox"/> Impregnated with fire retardant <input type="checkbox"/> Painted with fire retardant	<p><i>Fire retardant is stated as amount of dry chemical in relation to dry timber.</i></p> <p><i>Fire protection paint is stated as amount per m² wet film.</i></p>
<p>TIMBER MATERIAL</p> <p>The certificate states which types of timber/ timber species, including any processing of the timber in the form of e.g. heat treatment, that have been tested and approved.</p>	<input type="checkbox"/> Timber material stated in certificate <input type="checkbox"/> Timber material not stated	<p><i>Impregnated with fire retardant: Each individual timber material must be tested.</i></p> <p><i>Painted with fire retardant: When tested on 12 mm chipboard, all timber material must be coated in a thickness of ≥ 10 mm and density of ≥ 472 kg/m³, or when tested on 9 mm plywood all timber material must be coated in a thickness of ≥ 8 mm and density ≥ 300 kg/m³.</i></p>
<p>THICKNESS</p> <p>The thickness of the certified product, or if an EXAP report is given, the thickness as value equal to or greater than.</p>	<input type="checkbox"/> A specified thickness <input type="checkbox"/> Thickness from-to: <input type="checkbox"/> ≥ in mm:	<p><i>The certificate states under individual options whether the product is approved for a specific thickness or a minimum thickness/greater than thickness.</i></p> <p><i>The latter will refer to an EXAP report.</i></p>
<p>SURFACE STRUCTURE</p> <p>Surface structure applies only to industrially fire protection painted timber products.</p>	<input type="checkbox"/> Sawn <input type="checkbox"/> Planed	<p><i>The certificate must state whether the product is certified for either sawn, planed or both surface structures.</i></p>
<p>DENSITY</p> <p>The certificate states the densities for which the product is approved.</p>	<input type="checkbox"/> Certificate covers the density <input type="checkbox"/> Certificate does not cover the density	<p><i>Check that the relevant timber material is tested according to the density of the timber species supplied.</i></p>
<p>SURFACE TREATMENT</p> <p>Most cladding types are surface treated. Exterior cladding must be fire tested with the surface treatment applied.</p>	<input type="checkbox"/> Untreated <input type="checkbox"/> Undercoated <input type="checkbox"/> Undercoated and intermediate coat	<p><i>The certificate must state whether the product is approved with surface treatment, type and quantity.</i></p>

CHECK POINT		Comments
DIRECTION OF INSTALLATION Vertical or horizontal cladding.	<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal	<i>The options in the certificate state the direction of installation for which the product is approved.</i>
JOINTS Horizontal or vertical.	<input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	<i>The certificate states under individual options whether the product is approved for horizontal, vertical or both types of joints.</i>
INSTALLATION The cladding is normally installed with a ventilated air gap between the cladding and the underlying substrate.	<input type="checkbox"/> Ventilated cladding <input type="checkbox"/> Air gap, but not ventilated <input type="checkbox"/> No air gap	<i>Ventilated cladding must be tested with a 40 mm air gap. This must be stated on the certificate.</i> NB! Fire regulation requirements in cavities.
SUBSTRATE This means the product directly behind the cladding.	<input type="checkbox"/> Plasterboard <input type="checkbox"/> Timber-based substrate with minimum 10 mm thickness.	<i>The certificate will state the type of substrate and substrate thicknesses approved for use behind the cladding.</i>
SUITABILITY FOR USE This means that the product has been tested and approved for use outdoors. Not part of the certification.	<input type="checkbox"/> Classified EXT according to EN 16755/CEN TS 15912/NS INSTA 054 <input type="checkbox"/> Not tested	<i>Check that the relevant timber material is tested in accordance with the density of the timber species supplied.</i>
SCREWS AND FASTENERS		<i>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 with the manufacturer's recommendations.</i>





Advantages

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

Please contact TreFokus by e-mail:
trefokus@trefokus.no

Forskningsvn. 3B
Pb. 13 Blindern
NO-0313 Oslo
Norway

www.trefokus.no

TreFokus

