

GUIDELINES MANUAL

Leaf

M

PART OF
MANNI
GROUP



ISOPAN

INSULATING DESIGN





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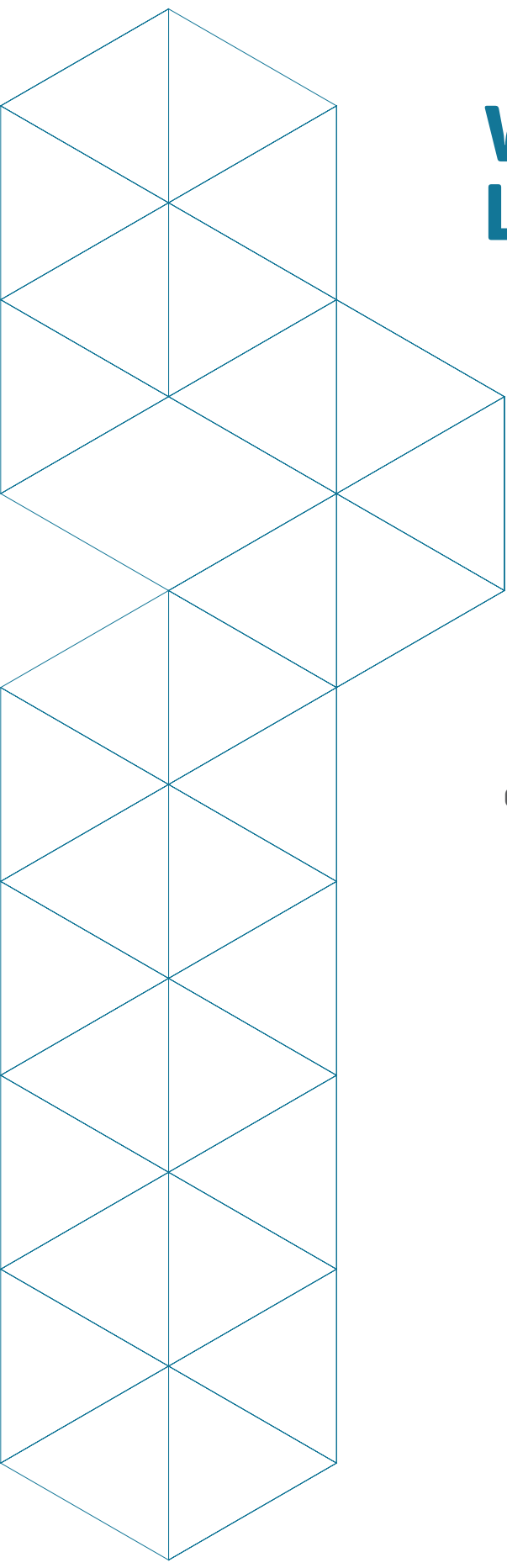
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GUIDELINES
AND SUPPORT MATERIALS

01

LEAF TECHNOLOGY





WHAT IS LEAF

LEAF is the most advanced technology that summarises all of Isopan's know-how.

LEAF is the Isopan technology applied to insulation formulas and provides important properties to wall and roofing panels, while contributing towards obtaining credits for the LEED (Leadership in Energy and Environmental Design) and BREEAM certifications.



Greater thermal insulation

+20% THERMAL INSULATION

The LEAF solution improves the thermal performance of the isolating material, in particular by reducing the thermal conductivity value of the polyurethane foam. With the same thickness, it is possible to obtain lower thermal transmittance compared to a standard product.



Fire behaviour

B-S1, D0 CERTIFICATION

LEAF technology has obtained the maximum reaction to fire certification in Europe for polyurethane panels, called B-s1, d0.

The achievement of the "s1" performance is particularly meaningful and important for polyurethane panels, since it attests the absence of fumes originating from exposure of foam to fire.



Sustainability

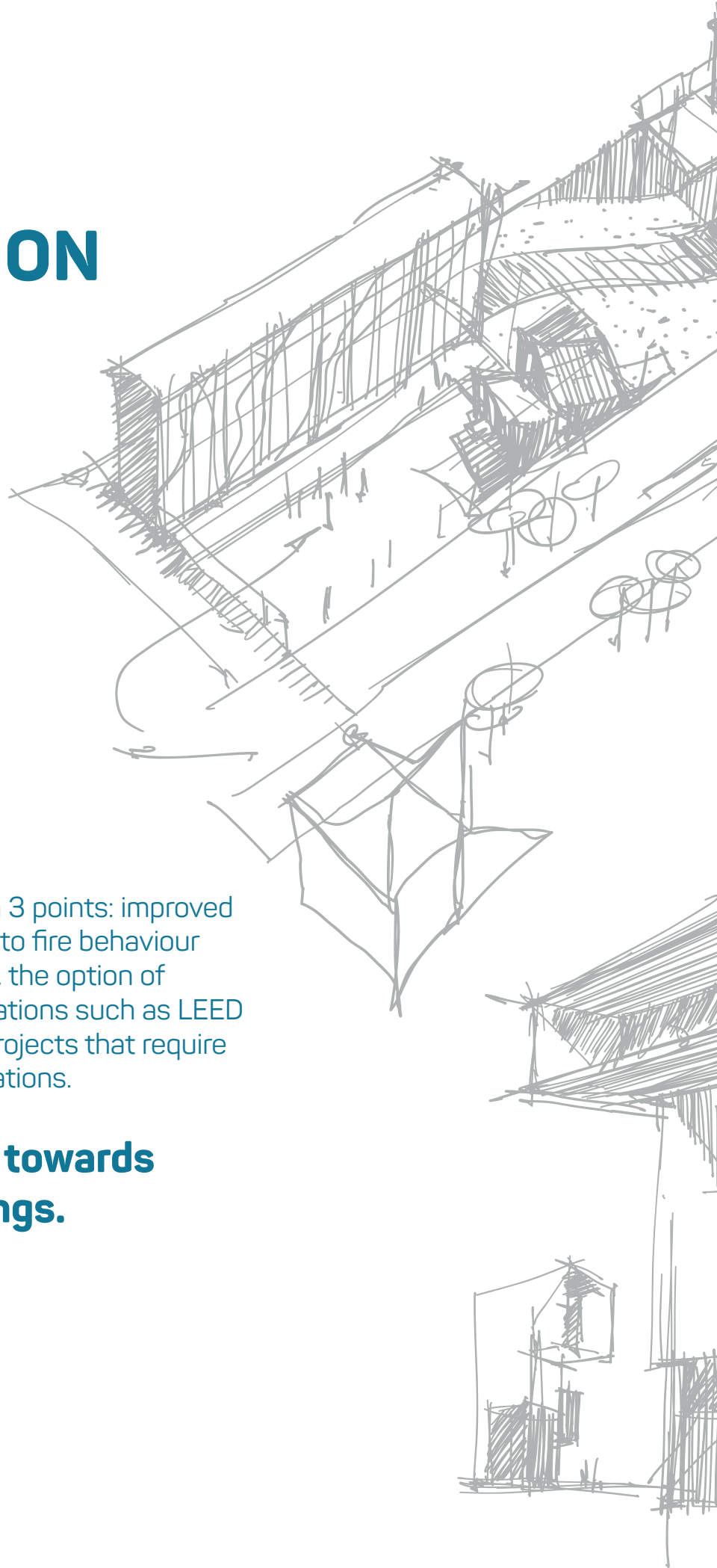
HALOGEN-FREE COMPONENTS

The flame retardants commonly used to improve the fire behaviour of material are made from halogenated compounds, which are potentially harmful to the environment. With LEAF technology, Isopan ensures high performance in terms of fire behaviour without using halogenated flame retardants. Moreover, the excellent performance of LEAF insulation materials allow for lower energy consumption with the resulting reduction of CO2 emissions.

VALUE PROPOSITION

Right now, we are working on 3 points: improved thermal efficiency, attention to fire behaviour with the B-s1d0 certification, the option of contributing towards certifications such as LEED and BREEAM in high-value projects that require these environmental certifications.

They all contribute towards higher-value buildings.





Lower costs

This is a driver of great importance for professionals who want to create an efficient project that will appeal to the end customer. Higher thermal efficiency means less energy waste and, consequently, less consumption.



More quality

The B-s1, d0 certificate guarantees the absence of smoke in case of fire. When in contact with the foam, the flames will not create smoke, which is one of the main causes of death in this type of event. This level of safety offers the design engineer and the owner greater safety compared to other solutions, guaranteeing buildings of better quality.



An interesting investment

Thanks to its new formula without halogenated compounds, LEAF products fall under various product descriptions leading to credits for certifications such as LEED and BREEAM. A building with these features is certainly a much more interesting investment for design engineers, who can offer a sustainable and environmentally friendly product. These certifications guarantee compliance and products that offer higher value than the average value of classic buildings, making this all very attractive to someone who intends to invest in construction.

PHILOSOPHY

Leaf

MORE THAN JUST INSULATION

All of Isopan's know-how is summed up in the latest advanced LEAF technology.

LEAF technology, applied to insulation formulas, provides important properties to wall and roofing panels. In addition, it contributes towards obtaining credits for the LEED (Leadership in Energy and Environmental Design) and BREEAM certifications.

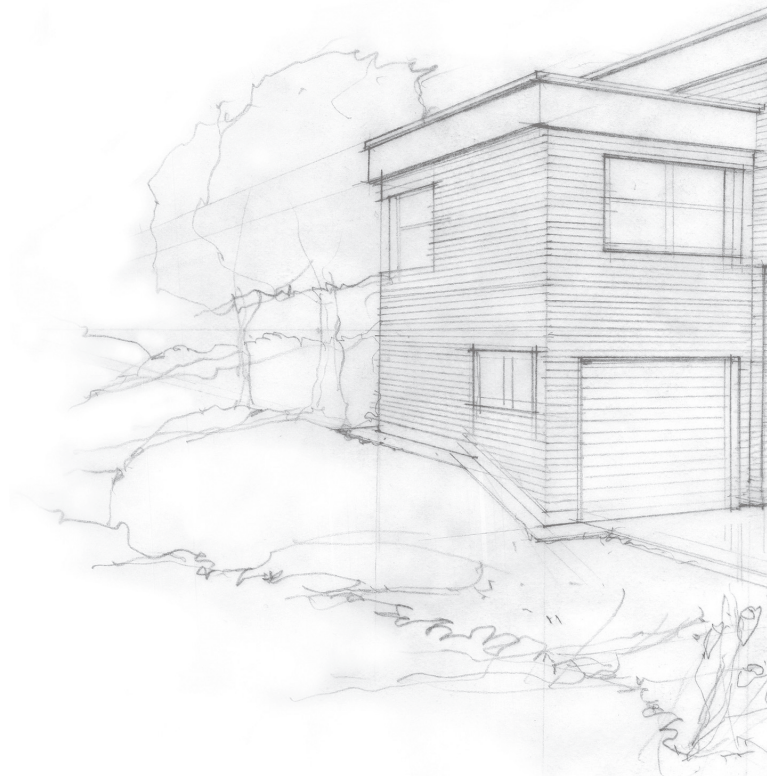
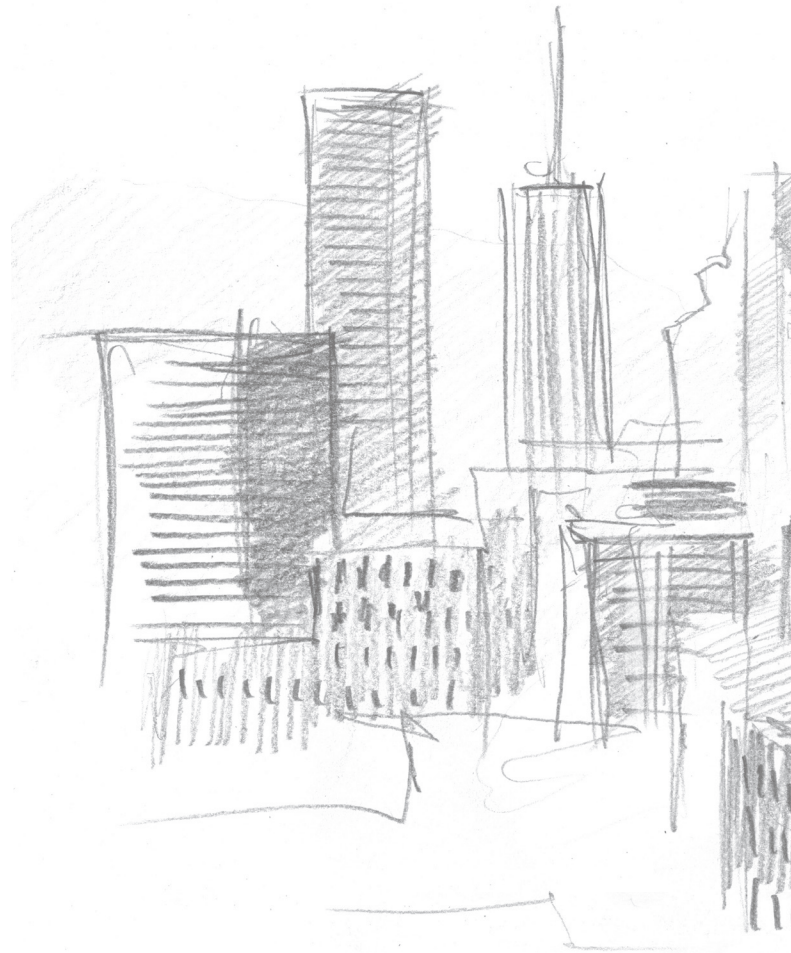
lower costs

more quality

an interesting investment

These are the 3 sensitive areas for our Targets: **improved thermal efficiency, attention to fire behaviour with the B-s1d0 certification, the option of contributing towards certifications such as LEED and BREEAM in high-value projects that require these environmental certifications.**

They all contribute towards higher-value buildings.



Leaf

polyurethane

Isopan

behaviour

consumption

interest

investment

efficiency

owner

thermal

materials

conductivity

high

living

design

technology

engineers

sustainability

quality

lead

expenses

costs

wall

comfort

building

value

consumi

thermal

certification

architects

reaction

details

work

flame

fire

roofing

panels



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