
LLENTAB
MORE THAN STEEL BUILDINGS
FRAMEWORK
FOR THE FUTURE
LLENTAB ON STRENGTH
& SUSTAINABILITY FROM STEEL

AS WE SPEAK ABOUT **SPACE**

FROM SPACE IT IS QUITE OBVIOUS:
WE ARE STUCK HERE WITH
THE CONSEQUENCES OF OUR ACTIONS

A CHANGE IN ENERGY INFRASTRUCTURE IS **DEVELOPING ON A GLOBAL SCALE**.

SUSTAINABLE ENVIRONMENTAL SOLUTIONS TO SAVE WATER AND SOIL **ARE EVOLVING**.

WAR AND DISASTER ZONE BUILD-UP PLANS **ARE BEING MADE**.

PACE, SCALE, AND QUALITY ARE INCREASING IN FOREST RESTORATION.

A RISE IN AVERAGE TEMPERATURES AND CARBON DIOXIDE LEVELS ALSO GREATLY EXPAND AND RAISE AWARENESS OF AND **COMMITMENT TO SUSTAINABLE DEVELOPMENT GOALS** (SDGS).

TECHNOLOGY IS FINALLY DELIVERING ON ITS PROMISE TO MAKE MAJOR ECONOMIC **PRODUCTION AND CONSUMPTION STRUCTURES MORE SUSTAINABLE**.

...THINGS ARE **HAPPENING** DOWN HERE

We are all trying to be smarter in so many ways. Small actions taken by many lead to big changes in behavior, mindset, and eventually for life on Earth and our future here.

WHAT OUR FUTURE **REQUIRES**

WE ARE ALL TRYING TO BE SMARTER IN SO MANY WAYS. SMALL ACTIONS TAKEN BY MANY LEAD TO BIG CHANGES IN BEHAVIOR, MINDSET, AND EVENTUALLY FOR LIFE ON EARTH AND OUR FUTURE HERE.

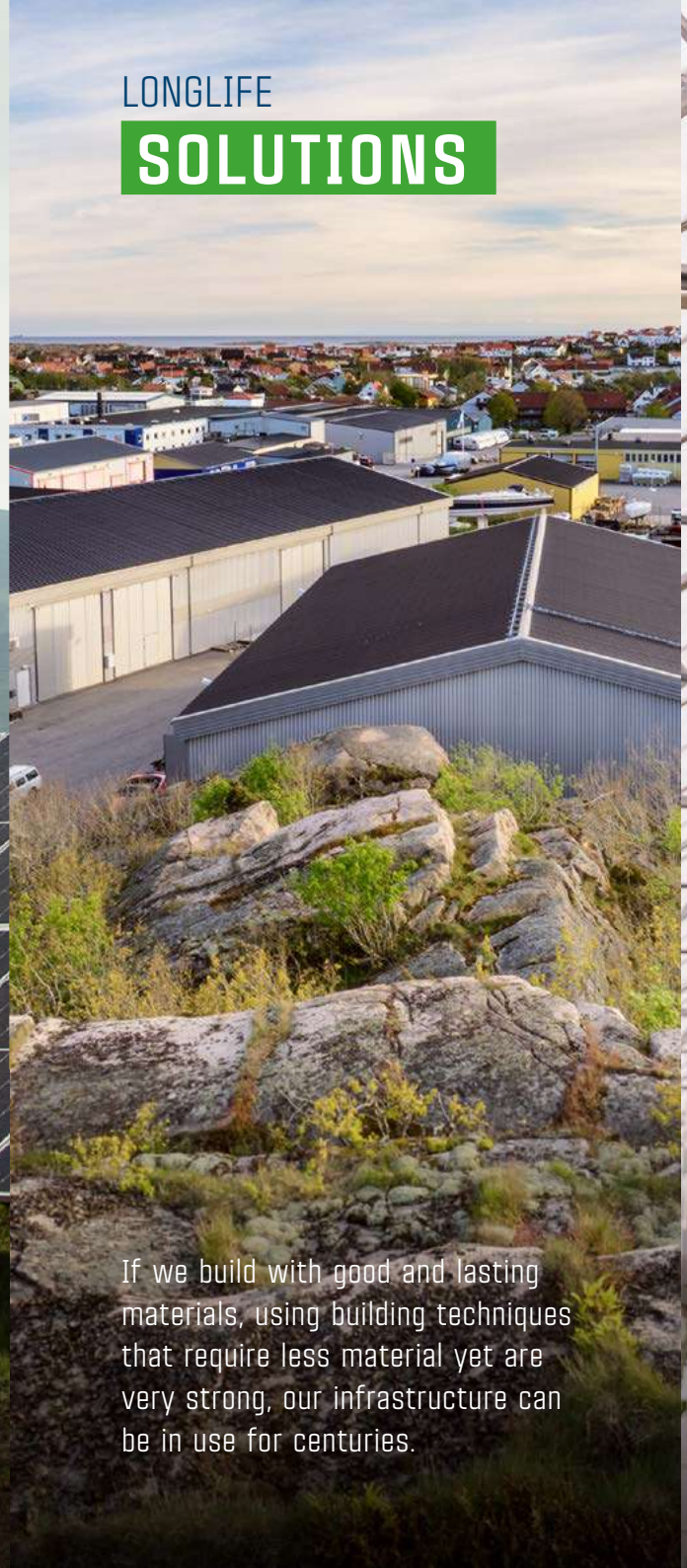
ENERGY

EFFICIENCY

Energy is no longer unlimited and cheap. A building can generate more and consume less energy if it is well-insulated and smartly designed.

LONGLIFE

SOLUTIONS



If we build with good and lasting materials, using building techniques that require less material yet are very strong, our infrastructure can be in use for centuries.

SUSTAINABLE

MINDSET

Where there is space, there is a climate. It can be eternal summer or it can be permafrost. New technologies will benefit from a controllable and sustainable micro-universe.

SUSTAINABILITY FROM **STEEL**

A PART FROM THE START

When LLENTAB started in 1972, sustainability was not a household word nor a primary business objective. But it was still an integrated part of our concept. Back then, we called it things like quality, cost awareness, and longevity, and we efficiently created the space and span that society needed then.
No less, no more. Now we know that we were creating sustainability from the start.

Virtually all of the buildings we have built in the past are still standing. And they are still in use, either for their original purpose or a new purpose. It is difficult to make a steel building deteriorate. Steel is a fantastic, strong building material that can stand for eternity under the right conditions or be recycled into new steel. But it comes at a cost that we must consider and must radically reduce.

Today, as part of the general awareness of the global effects of human development, we also focus on how our concept affects the climate and how we can improve it.

FRAMEWORK FOR THE **FUTURE**

BUILD THE FUTURE ON A LLENTAB FRAME

A LLENTAB building is a steel structure that is typically clad with sandwich panels. But in theory, it can look any way you want it to. It can also be used for virtually anything. A framework of shaped sheet steel profiles is the trick. These are made 100% to measure in our facility, calculated for taking the load of your desired space and span, and swiftly screwed together on the building site like a giant Meccano. The process from the first design to the weatherproof shell is among the fastest in the building business. And time is money.

BUILT FOR A LIFETIME. AND BEYOND.

In addition to a speedy process, our promise to our clients is a building that will stand for well beyond a normal lifetime, with a preserved value and a design that can absorb new techniques, radical layout changes, and extensions/integrations of new space and functionality.

We know from experience that a building develops over time, and we also see on a daily basis how the investment in a new facility boosts the business inside, leading to new investments much sooner than anticipated.

The possibility to easily modify a building throughout its entire life cycle is a sustainability practice that benefits not only us, but, above all, you and your company.

When you reach the end of your career, maybe retiring or selling your business, a LLENTAB building will still be in good shape and of high value for its next occupant. And in the very distant future, it may be dismantled and reassembled elsewhere, or it may be recycled.

Regardless, a LLENTAB steel frame will have good value and a good use in its next life, too.

SOURCE SOLUTION STRUCTURE

OUR THREE ANGLES ON **SUSTAINABILITY**

SOURCE

On the global market, raw materials can typically be obtained from anywhere, and the cost will likely be the dominant factor in terms of purchase.

The production of steel from iron ore is one of the most energy-consuming processes of all, and worldwide transportation further adds to the environmental impact.

LLENTAB is a Swedish company, and our business is mainly in northern and central Europe. Location, in combination with the high ambition of Swedish steel producers to convert to fossil-free production, supports our decisionto source our steel predominantly from Swedish and European suppliers who can provide recycled material to the largest extent possible.

By collecting EPDs from our raw material suppliers and compiling EPDs for the products we manufacture, we have strong knowledge of the climate impact of the manufactured materials.

SOLUTION

The process of shaping steel into strong profiles and components in a very solid building framework is done entirely in-house at LLENTAB. Our beams, pillars, and joints and our construction design create the strength required with less material mass. That is a very vital part of our concept's core sustainability.

Our production flow minimizes spillage, and if spillage still occurs, it is recycled. Waste related to our production flow is also managed and controlled to minimize landfill use and maximize recycling. By default, our framework does not require painting or coating; it is naturally weatherproof and normally well-protected inside the cladding. The hazardous use of paint and solvents is thus prevented.

We also assemble our frames with screws and nuts, thereby avoiding welding, which also negatively affects the workplace environment.

We meticulously plan and synchronize our deliveries to building sites in order to avoid unnecessary transportation, create ideal conditions for the assembly crew, and cut costs.

STRUCTURE

When a LLENTAB building's shell of roof and walls is in place, our part of the job is done, and other craftspeople move in to make the final installations under ideal conditions. We provide an energy-efficient, flexible, and stylish shell that will house just about any kind of activity in the future with a minimum of maintenance; it can easily be unscrewed and recycled into a new life when that day comes.

Once the building is in place, the longevity and the endless possibilities to use the open framework as a supporting structure for additional installations and extensions are the most vital part of our core sustainability.

Today we build our structures by default to take the extra load of photovoltaic panels on the roof. We must think ahead. Several new energy systems will probably replace each other over the lifespan of the building.

Over time, the exterior, the intended use, and the complete interior layout of a LLENTAB building may likely change. But the ingenious steel frame that contains and supports it all will still be the same.

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WHERE WE BUY OUR RAW MATERIAL?

HOW SHEET STEEL BECOMES A BUILDING?

HOW OUR BUILDINGS STAND THE TEST OF TIME?

OUR EARTH IS DEEPLY STRESSED BY THE RAPID CHANGES IN THE CLIMATE, LARGELY CAUSED BY CENTURIES OF HUMAN OVERCONSUMPTION AND THE MINDLESS USE OF RAW MATERIALS AND ENERGY SOURCES. NATURAL DISASTERS, FAMINES, MIGRATION, AND WAR ARE LARGELY CONSEQUENCES OF THIS EVOLUTION.

No matter how mindless we have been, we can also adapt to new situations. And we do see rapid change globally in energy infrastructure. New ways of saving and treating water and soil are evolving, and we can finally see an accelerating awareness of and commitment to the Sustainability Goals that most countries have agreed upon.

In all these ongoing events, we feel that LLENTAB has a role to play. The world needs to take much better care of its assets: goods, grains, livestock, equipment, and anything that is easily wasted outdoors. Our buildings create weatherproof protection and an energy-efficient microclimate that saves our resources. Our buildings can also quickly and efficiently replace infrastructure destroyed by war or disasters. And they can do so for a long time.


OUR VISION
FROM
A GLOBAL
POINT
OF VIEW

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