



Lindab-Astron
We simplify construction

Key Benefits

Lindab-Astron offer:

- The reliability of a long-standing European group with a track record of over 40,000 buildings
- More than 40 years experience
- Same quality, same product from all manufacturing locations
- Unique know-how throughout Europe

Astron products give:

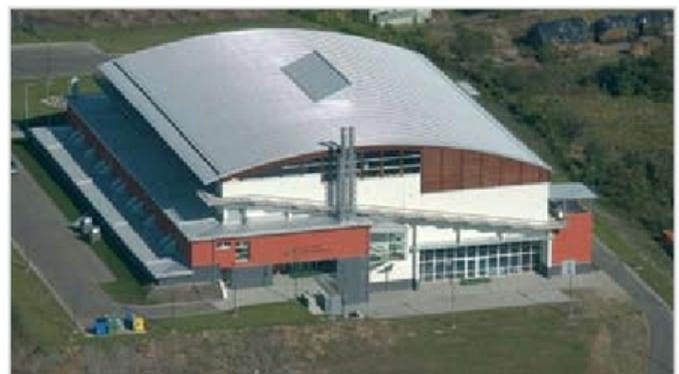
- Optimum use of space, with no or only a few interior columns
- Pleasant indoor comfort
- Easy upkeep for low maintenance costs
- A long-lasting quality product with ISO 9001:2000 quality certification
- Imaginative and appealing architectural design possibilities
- Energy efficiency: high insulation values
- Environmentally-friendly products

Astron systems provide:

- Tailor made buildings to customer requirements
- Best quality/price ratio
- Early occupancy: our pre-engineered systems approach ensures a faster time from project conception to completion compared to traditional construction
- Fixed deadlines
- One-source supply: Your complete building delivered by Lindab-Astron
- Extensive design freedom: flexibility of layouts and dimensioning to suit customer requirements

Astron Builder Network brings you:

- A complete design-and-build service plus turnkey project construction through a network close to 400 local professionals, the largest Builder network in Europe



Pre-engineered solutions for steel buildings

Following Lindab's acquisition, former Butler-Europe and ASTRON BUILDINGS now form Lindab-Astron integrated building systems business.

Astron is the brand name of the product sold by the Building Systems business area of the Lindab group.

Lindab is an international group that develops, manufactures and markets sheet metal products and system solutions for the construction sector.

The business areas of **Component, Ventilation and Building Systems** offer complete solutions for construction systems and indoor climate, as well as individual construction and ventilation components for all types of buildings. Lindab is established in 30 countries and employs approximately 5,000 people.

Lindab-Astron is Europe's largest manufacturer of steel building systems primarily for industrial and commercial use: factories, warehouses and distribution/logistics centers, supermarkets, retail outlets, garages as well as leisure centres, aircraft hangars, offices, etc.

Astron's product lines include:

- SSB:** custom designed Single-Storey Buildings
- MSB:** custom designed Multi-Storey Buildings
- ASTRONET:** standard buildings
- REFATEX:** roof and wall renovation systems

Lindab-Astron's concept is clear and simple:

We simplify construction

Lindab-Astron key figures:

- More than **40** years experience
- Over **40,000** reference buildings
- **40,000,000m²** built
- Nearly **400** Builders
- A network spanning nearly **40** countries
- **1,000** buildings per year
- **1,000** employees



Our business

An Astron building provides almost endless construction possibilities respecting budget requirements and offering building personalisation.

Lindab-Astron and its Builders use proprietary integrated computer software for pricing and design from the initial project stage to shipment, thus ensuring shortest lead times and a virtually error free process. In addition CYPRION and Allplan softwares provide realistic 3D illustration of the Astron building.

Structural designs conform to all major European standards, Eurocodes, American AISC/AISI and Russian SNIP/GOST standards.

Lindab-Astron has type approval for its designs in most countries where this can be obtained. This greatly simplifies and speeds up local approval processes.



Local level – small to large projects:

Astron buildings are marketed through a network of authorized Astron Builders: independent local and regional construction companies.

These companies offer complete turnkey services to the end customers and their architects or other professional advisors, including:

- finding/sourcing land,
- help with planning permission and building regulations,
- optimise the building layouts and costs,
- propose preliminary design,
- prepare site and foundations,
- plus full turnkey construction services.

You profit from an international resource in alliance with the ability of a local expert who offers a single source solution to all your building requirements.

Astron Builders' professionalism guarantees you a tailor-made building, respecting your budgets and deadlines.

Close to 400 Astron Builders throughout nearly 40 countries are able to provide a local Astron building solution – Europe-wide and beyond.

Astron Builders are listed on www.astron.biz

Astron Builder Network:

A local know-how associated to a powerful industrial group.

- Nearly 400 Builders
- Turnkey services to end customers, local architects or other professional advisors
- Local contacts and promotion

International level and Key Accounts:

The Key Accounts Unit offers a personalised scope of services to international groups expanding their activities to the whole of Europe and beyond.

Services like sourcing land, applying for building permit, optimising building layout, delivering a supply and erect closed box can be provided with the support of Lindab-Astron Europe wide Builders, local architects, developers, promoters, or major general contractors to ensure building efficiency and on time delivery.

On a case to case basis turnkey solutions and leasing or financing solutions can also be proposed via Lindab-Astron's business partners.



Key Accounts Unit:

- The same quality, the same product, the same timing anywhere in Europe and beyond
- Countless number of references with experience of large projects
- Project managers involved locally
- Possible cooperation with Europe's biggest Builder network and local experts and authorities
- Turnkey service

Product Lines

Lindab-Astron design and manufacture 4 distinct product lines:

SSB: Tailor-made Single-Storey Buildings

- Tailor-made structures, each individually designed precisely according to the customer's needs.
- Different roof systems and wall systems to satisfy most requirements for durability, aesthetics, internal finish and energy conservation.
- High performance thermal and acoustical insulation systems.
- A full range of structural accessories, including full floor and partial mezzanines, plus crane rail beams are available.
- Easy integration of traditional construction materials, such as glass, wood and brickwork, into Astron building façades to suit architectural and customer requirements.
- Clear span (without internal columns) up to 100m.
- Bay spacing between 5m and 12m over the length of the building.

MSB: Tailor-made Multi-Storey Buildings

- Generally up to 6 floors high with dry construction.
- Primarily for offices, light manufacturing or service companies.
- Astron supply includes not only the building structure but also the floor and roof systems, as well as façades (light weight concrete elements or profiled steel panels or other building material).
- A unique Astron design concept saves space between floors and reduces the overall height and cost of the building.
- Customised for individual building and architectural specifications.
- Design based on a 3D approach with few and narrow columns.



ASTRONET: Standard building construction

- Standard buildings with fixed combinations of span and height.
- Intended primarily for craftsmen, new business start-ups, small or medium-sized workshops or retail outlets.
- Delivery and construction times are extremely short.

REFATEX: Roof and wall renovation system

- Provide a number of solutions to the re-roofing and re-walling of old buildings in order to restore building conformity together with pleasant aesthetics.
- Developed for owners who wish to put a new roof or wall over an old one without disrupting day-to-day operations inside the building.
- Thermal insulation values and sound transmission properties can be extremely improved to meet the new European requirements.



before
after



Location

Located in Diekirch, Luxembourg on 28,000m² (headquarters), Přerov (Czech Republic) on 18,000m² and Nyíregyháza (Hungary) on 10,000m² our three manufacturing facilities are among the most modern of their kind. A fourth plant located in Yaroslavl (Russia) will be operational in 2009.

Lindab-Astron designs and produces virtually all the main components of the building – the primary and secondary structures, the roof and wall systems, accessories and thermal insulation systems.

This one-source approach avoids many job-site problems, such as scheduling and component compatibility, associated with deliveries from multiple suppliers.

Over 200 engineers are working in our 9 engineering offices. All our manufacturing sites have their own engineering units.

Additional engineering offices are located in:

- Budapest (Hungary)
- Kirkcaldy (United Kingdom)
- Mainz (Germany)
- Paris (France)
- Warsaw (Poland)

Representative and sales offices are based in:

- Bucharest (Romania)
- Kiev (Ukraine)
- Minsk (Belarus)
- Moscow (Russia)
- Padova (Italy)
- Vilnius (Lithuania)
- Sofia (Bulgaria)

Environment

The Astron product lines meet the growing demand for efficient, environmentally-friendly, energy saving, durable and cost effective building systems.

- Steel is recognized as an archetypal environmentally-friendly building material
- Our systems optimise the steel usage
- Dismantling and moving buildings
- Astron constructions are recyclable to a very large extent
- Low transportation volume (1 truck = 800m² of building)
- First rate results in energy-efficiency

Quality – certified ISO 9001:2000

Quality of the buildings, quality of our service and customer satisfaction is a way of life at Lindab-Astron. We work with leading universities and institutions in most European countries to ensure that design programs, materials and production practices are continually updated to reflect state-of-the-art technology.





-  **Headquarters**
-  **Sales, engineering and manufacturing plants**
-  **Sales and engineering offices**
-  **Sales offices**



6 out of 40,000 Astron reference buildings





www.astron.biz



Astron is the brand name of the products sold by the Building Systems Business area of the Lindab group, Europe's largest manufacturer of steel building systems for industrial, office and commercial use.

Lindab-Astron produce up to 1,000 buildings a year, distributed either through a network of 400 certified independent Builders, spanning nearly 40 countries or through our Key Accounts Unit. Our headquarters is located in Diekirch (Luxembourg). Lindab's concept is clear and simple:

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