

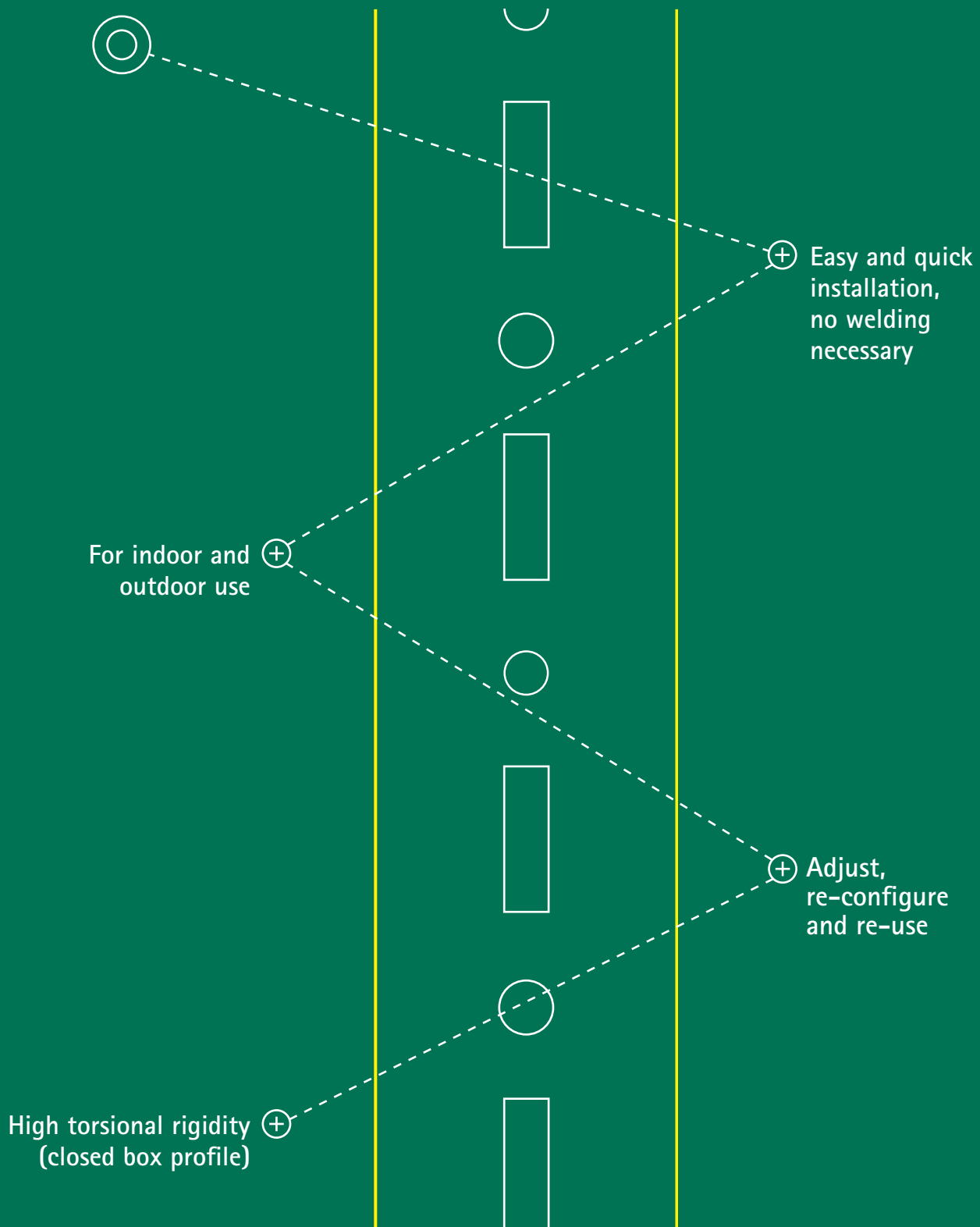
Build heavy-duty frames
in a smarter way



Walraven Maxx

Heavy-duty modular support system for load-bearing frames

Walraven Maxx



Inspired by smart solutions from the start

Walraven is a globally active company in the installation industry, founded in 1942. We have always been dedicated to make the work of our customers easier and more effective. With simple and smart solutions, comprehensive services and excellent support.

Walraven. The value of smart

Build heavy-duty frames in a smarter way

A modular solution for your most demanding support structures

Walraven Maxx is engineered to simplify complex installations. The system's modular design allows for fast, flexible construction on-site or pre-assembly off-site. With a wide range of profiles and accessories, you can create custom solutions tailored to your project's needs.

From baseplates to beam clamps, every component is designed for durability, ease of use, and maximum performance. And with our cut-to-length service and technical support, we're here to help you every step of the way.

Making the job on-site safer and faster

Thanks to its design and extensive range, Walraven Maxx is an excellent alternative to welding and drilling structural steel systems, adaptable to all your projects.

Its high-quality, hot-dipped galvanised steel components ensure corrosion resistance, making it suitable for both indoor and outdoor use. The Walraven Maxx System is manufactured in Europe and is compatible with Walraven RapidStrut®, enabling seamless integration for smaller pipework. The closed box profiles ensure a high torsional rigidity.

Choosing the Walraven Maxx system will help you save time on-site. Welded steelwork requires a hot-works permit and is more complicated to make adjustments, as it may require re-cutting and re-welding the structure, resulting in slow progress and material waste.

By contrast, Walraven Maxx is designed for fast, efficient 3D construction using simple, smart parts. For example, the unique Walraven Maxx Hammerfix Connector is simply inserted into the profile and turned 90° before tightening quickly and easily with an impact driver. The beauty of this connector is that it can hold the assembly in place and allow adjustments before final tightening.

Environmental Product Declaration (EPD) available.

An EPD allows us to communicate a product's environmental impact and empower our clients and partners to make informed choices. Verification by a third party ensures accuracy, compliance and transparency.



10 benefits of Walraven Maxx

1. Minimal installation time

Cleverly designed parts that simply bolt together, and the fact it can be supplied in kit-form or preassembled means that modular systems can be assembled faster and easier than traditional welded steel methods.

2. Cost-effective

As there is no on-site fabrication required such as welding or drilling, no machinery required to lift the structures into place, usually they can be assembled quicker and at lower cost than a welded steel system.

3. Adjustable

Easily adjustable on-site without the need for hot works. Walraven Maxx Hammerfix connectors simply push and twist into the connecting slots and can be used to hold the assembly in place and make adjustments before the final tightening.

4. Flexible construction with unlimited connection points

Secure and adjustable connections can be made to the profiles at any point and on any side of the box section. And with 4 different sized profiles to choose from we can recommend the right one for your installation.

5. Inter-connectable

Connects with primary steelwork, for example using the Walraven Maxx Beam Clamp. Also connects easily with strut channel, rooftop support feet and more for an integrated support solution.

6. Safe and strong

Closed box profile ensures strength and high load capacity as well as high resistance to torsion.

7. Suitable for non-penetrative roof designs

Connect to rooftop support feet such as Walraven Yeti® 480 to provide a non-penetrative rooftop support frame.

8. Improved H&S on site

With no requirement for hot works and the system being lighter and easier to handle than solid steels, there is less risk for injury and fewer H&S requirements on site. There can also be less material wastage.

9. Corrosion protection

All parts of the Walraven Maxx system are hot dip galvanised which offers superior corrosion resistance than Zinc coating. Therefore it offers good corrosion protection in outdoor environments.

10. Prefabrication options

Modular systems are perfect for offsite construction projects. They can easily be designed and assembled offsite, and delivered to site ready to install in place.



Comprehensive and modular system

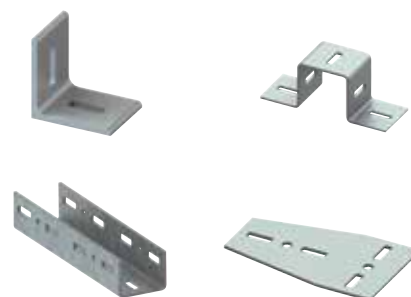
Walraven Maxx Profiles

- Closed square or rectangular profile
- Torsional stiffness ensuring safety
- Continuous hole pattern on all sides for easy attachment of fixings and accessories
- Various dimensions available (80x80, 100x100, 100x120, 100x150)
- Cut-to-length service on request



Profile Connectors

- Linear connectors available in single or two piece sets
- T connectors can be used to strengthen joint connections
- 90° profile connectors made from L steel to enhance stability
- Cross connectors available to make cross connections or fix Maxx Profiles to substrate



Wall and Floor Brackets

- For connecting Maxx profiles to the wall, floor and ceiling
- Slots compatible with mounting profiles
- CO₂ welded for strong and reliable joints



Walraven Maxx Accessories

- End caps for clean finishing
- Beam Clamps (HDG) for a solid fixing to steel construction without the need for welding or drilling
- Pre-assembled Hammerfix Connector for quick fixing with a push and 90° turn
- U-Shape Bracket for extra strength and stability
- Bolt set for traditional fixing
- Wingnut for connecting clamps and channel to Maxx profiles
- Clamp adapter set for connecting heavy duty clamps





Case Study: Factory Milan, Italy

Efficient, safe, and on time: how the installer streamlined a heavy-duty, multi-level equipment installation project

When a renewable energy specialist, RTS Srl, required two heavy-duty support frames with complex requirements, they turned to Walraven for technical support.

Challenge: Elevated installations with multiple design factors to consider

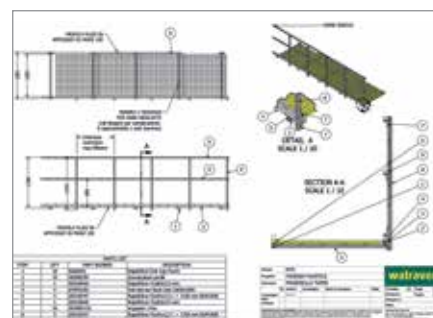
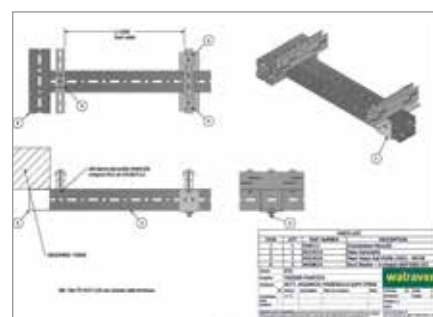
The requirements on this project were complex, involving elevated installations with considerations for loads, spatial constraints, wide spans, logistics and safety. Traditional construction methods, such as welded steel frames, were considered but quickly proved impractical due to logistical constraints, installation complexity, and time limitations. The customer needed a flexible, engineered solution that could be delivered quickly, installed easily, and meet all structural and safety requirements.

Solution: Walraven Maxx System provides flexible, modular solution

There were two bespoke supports required for this project:

Installation 1: Metal Support Frame

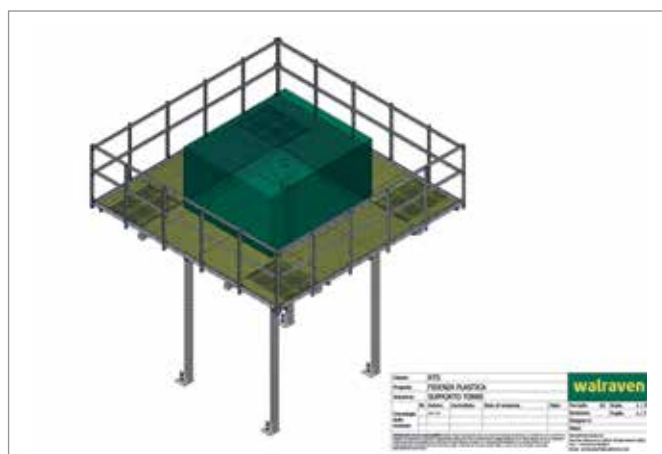
The first installation required a dedicated metal frame to support piping installations above the HVAC units that were positioned on the ground. The structure needed to fit the space around the large HVAC unit, which measured 9 metres long, 5 metres wide, and 3 metres high. Walraven provided a comprehensive design solution using a combination of Walraven Maxx 150 and Maxx 120. We delivered a robust and modular metal frame structure that met all technical and logistical requirements for this project, including addressing environmental factors such as wind and snow loads.



Installation 2: Elevated Platform with Walkway

The second part of the installation required the design of a support frame for a large HVAC unit weighing 3 tonnes and measuring 2x2 metres, which needed to be installed 3 metres above ground level, with a surrounding walkway for maintenance access. Our team proposed using a combination of Walraven Maxx profile for the load-bearing frame and Walraven RapidStrut® system to ensure precise management of pipes and cables.

This combination offers a safe, stable, and easy-to-install solution. Thanks to Walraven's channel systems and technical support, the customer was able to deliver both installations with confidence, ensuring structural integrity, safety, and ease of installation. By choosing Walraven, the customer benefited from having one trusted partner for all structural components, streamlining the project and ensuring a high-quality outcome.



Additional service & support

from engineering to on-site construction support

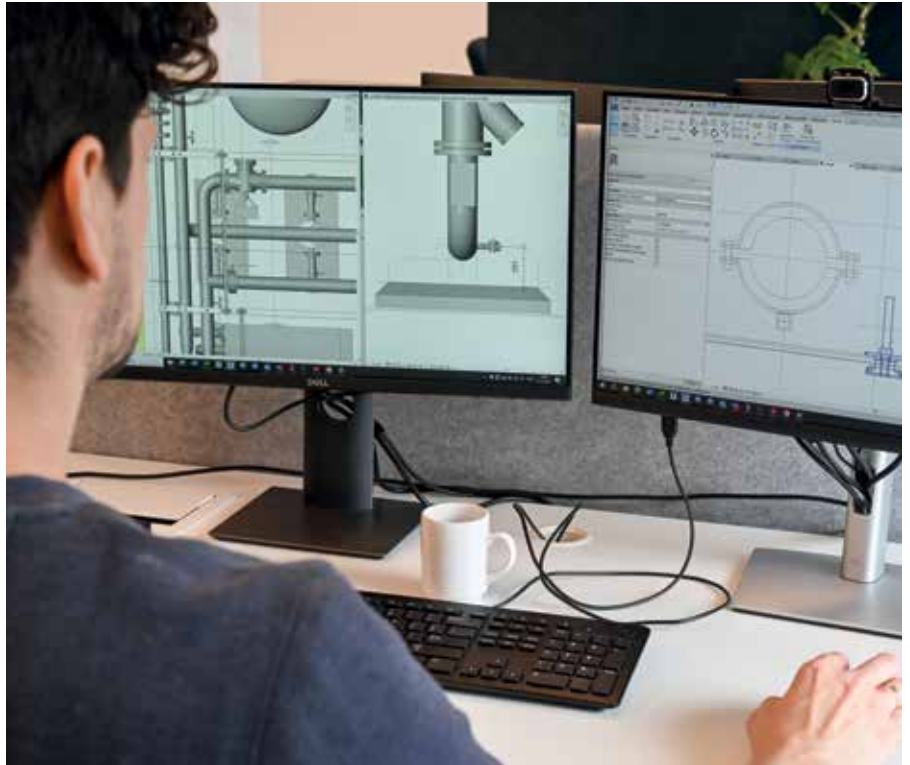
Technical design support

At Walraven, not only do we offer product systems that are designed to make your work easier, you can also access technical support throughout your project journey.

We can assist you with the design of a suitable support frame for your installation. Designs can range from really simple structures to more complex constructions, depending on your requirements.

Our Technical Team will provide calculations, drawings and parts lists, plus BIM content, if required.

For support over the phone or to request an on-site consultation, get in touch today!



The Walraven specialists are always ready to support!



Prefabrication services

Cutting, grinding, drilling, and measuring all cost a lot of time on the building site. Not to mention the costs of lost materials or faults. We can prefabricate solutions for you and deliver them directly to the building site.



Find out how we can support you

Would you like to find out more about any of the solutions described in this brochure?
Or would you like to discuss how we could help you find the best possible solution for your project?
Get in touch today!

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Walraven Group

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