ROSTEK

Key to Access

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Accen Fall Arrest
Exclusive distribution
partner in Poland

FACADE AND GLASS ROOF ACCESS SYSTEMS

ROSTEK
Key to Access

Together with our dealers around the world, we are always ready to help you to work out the best solution for your access needs. We offer standard and custom made solutions to fit into simple as well as complex building shapes. Our innovation and flexibility allow us to create customised solutions using the latest 3D design tools. We are an internationally renowned company producing and designing suspended platforms, monorails, roof trolleys, davits, traversing gantries and traversing ladders.

Using our engineering expertise at an early stage of the project allows us to propose a safe, aesthetic and economically feasible solution tailored to your individual needs.

Our company, based in Finland, is a true world leader in aluminium access systems. Today over 4000 buildings throughout the world have been equipped with a Rostek Access System. Rostek Access Systems consist of a variety of technical solutions based on lightweight aluminum structures.

Our products are designed and produced according to EN1808. We also fulfill the US requirements for ASME A120.1, OSHA 1910.66, UL 1322 as well as the New York Advisory Standards 101 and 111.

WITHOUT ARCHITECTURAL COMPROMISES

There would be no modern city architecture without skylights or glass facades. These breathtakingly rising surfaces need to be accessed for regular maintenance, cleaning, and necessary repairs.

Rostek Access Systems provide an aesthetic and functional way to maintain various surfaces efficiently and safely.

CONTENTS

SUSPENDED PLATFORMS

BMU CRADLES AND MODULAR PLATFORMS

Whatever you call them – suspended platforms, gondolas, swing stages, MSPs, BMU-cradles or self-propelled platforms, our working platforms offer reliable and safe Rostek performance. We have been producing suspended platforms in aluminum since 1987 and have established ourselves as one of the market leaders in self propelled BMU platforms.

There is a common denominator for Rostek suspended platforms of all types and sizes: optimal performance. You can choose the right model for the given task and we provide an excellent working place for the operators. Rostek's product range includes high-quality BMU-cradles for 1-2 people with one or two hoists, depending on the application.

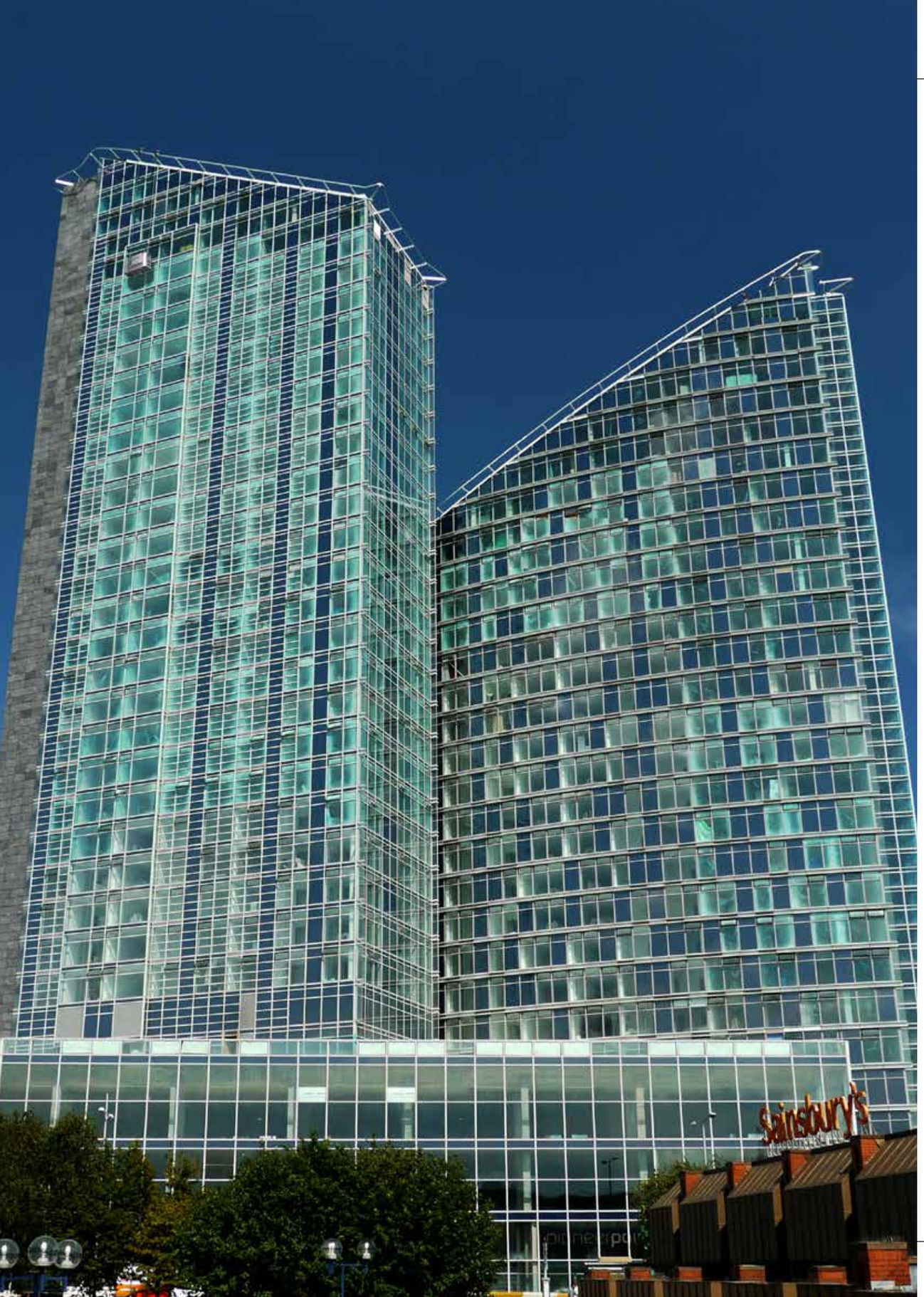
In addition to the smaller cradles, we deliver modular suspended platforms (MSP's). The MSP's can be extended for lengths up to 12 meters (40 feet). All our suspended platforms are equipped with hoists and safety devices according to latest codes and regulations.

Normally the cradle is suspended from a monorail, roof trolley or davits and used for interior or exterior facade maintenance. In addition, a gantry can be designed to suspend a cradle from it. Together the with gantry it can be used to access the whole ceiling and interior facades of an atrium.

It is also possible to use the suspended platforms during construction time. This will reduce the scaffolding costs.

SINCE 1987

ROSTEK HAS BEEN PRODUC-ING SUSPENDED PLATFORMS IN ALUMINUM



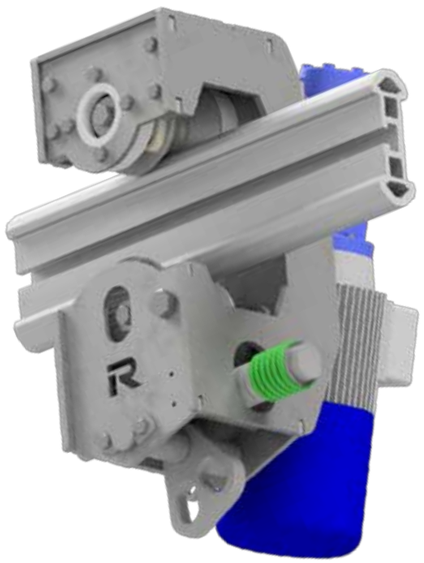
MONORAIL SOLUTIONS

BESPOKE MONORAIL SOLUTIONS TO FIT EVEN THE MOST DEMANDING STRUCTURAL SHAPES BLENDING INTO THE ARCHITECTURE

A Rostek monorail is a discreet access solution using an aluminium track running along the facade, soffit or ceiling, following the shape of the building. Purpose designed trolleys traverse a suspended platform along the track. The suspended platform moves up and down to access the vertical surfaces. We offer a wide range of different monorails to solve even the most difficult and demanding access problems in a very efficient way.

In order to achieve concealed solutions for the monorail, some of them can be installed into the ceiling or a soffit of a building.

The Roslift climbing trolley can provide a solution to a sloping track and can even travel vertically under full load.



ROSLIFT CLIMBING TROLLEYS

For special applications, such as buildings with inclined roof structures, multiple roof levels or other hard-to-reach locations, we can offer a powerful solution: The Roslift is a truly high-performance climbing trolley that runs along an inclined monorail to suspend and traverse a BMU-cradle.

The Roslift is capable of climbing any slope while carrying a full load. For those difficult places where nothing else works, the Roslift system offers a solution that is hard to compete with.

Together with 3D bending for the monorail, no building has been too complex for a Rostek solution. Ask our experienced engineers for a solution and you will not be disappointed.

MONORAILS

1992

Our monorails for horizontal applications have been a world-renown concept since 1992. They are not only good looking and strong but extremely versatile as well. A monorail can be bent to almost any possible shape to follow the building. The monorail can be used for both external and internal facades.

4000

Rostek has supplied monorail solutions to over 4000 projects around the world and you can find a Rostek solution on every continent except Antarctica. Together with the best engineers we always design the best looking monorails that blend ideally to any building shape. Our 3D bending capabilities exceed expectations.

You can find a Rostek solution on every continent, except Antarctica.

ROCA IS POWER TRAVERSED ON TWO TRACKS MOUNTED ON TOP OF THE ROOF HAVING A TYPICAL BRACKET SPACING OF 2.0 METRES

THE WEIGHT OF THE ROCA IS ONLY 230KG AND THE TWIN TRACKS ARE ONLY ABOUT 12KG/M

THE MAXIMUM OUTREACH OF A TYPICAL ROCA IS 1300MM

THE SUSPENSION ARMS ARE FOLDED AWAY FROM SIGHT WHEN NOT IN USE

ROSTEK BMU CRADLE CAPACITY IS 250 KG ALLOWING 2 PERSONS WITH TOOLS AND MATERIALS.

WHEN NOT IN USE, THE SUSPENDED PLATFORM IS STORED AWAY FROM SIGHT

ROCA - ROOF TROLLEY

A light roof trolley is an extremely flat machine traversing on two parallel tracks. The roof trolley consists of one or two suspension jibs. The suspension jibs can be either foldable (with fixed outreach from the facade) or telescopic (adjustable outreach). With both suspension alternatives, the jibs are moved out of sight when the roof trolley is not in use.

The roof trolley is a very light structure that can be installed even on light roof structures. It is also ideal for double facades. Another benefit is that it usually doesn't increase the height of a building.

A BMU cradle is suspended from the jibs allowing an easy facade access for window cleaning and maintenance.

The Roca roof trolley is the original roof trolley by Rostek. It is designed to have a fixed outreach but it is possible to design it with an electrically adjustable outreach system.

ROCA AND ARMSTRONG FOR ALL WEATHER

Whether you choose the Roca or Armstrong as your roof trolley you will not be disappointed. Both of the roof trolleys are tested in the hard and cold Finnish climate. It doesn't matter if it is summer or winter, raining or shining. The body is made of hot-dip galvanized steel which prevents corrosion. With regular maintenance, the roof trolleys can last for a life-time.

ARMSTRONG - ROOF TROLLEY

The best thing about our roof trolley system is that it is hidden on top of the roof when not in use. It is almost non-visible from the street below and from neighboring buildings. It doesn't excessively increase the height of the building. Also a roof trolley weighs less than 300 kilos (700 lbs.) and twin aluminium tracks are less than 15 kilos (33lbs) per meter. The Rostek roof trolley system is therefore suitable for even light roof structures.

The Armstrong roof trolley is a single suspension jib version of a roof trolley. The Armstrong is slightly higher than the typical version of the Roca. However the Armstrong is equipped with an adjustable outreach in order to reach for the various shapes of a building.

Whether your decision is Roca or Armstrong, our engineers will optimize the roof trolleys to ensure the best possible user experience for every building. Our experienced sales people are always happy to help.

IS THAT NEIL ARMSTRONG?

Yes, our roof trolley is actually named after the famous Neil Armstrong, who was the first person ever to step on the surface of the moon. We also thought about the Strong Arm. Armstrong roof trolley is inspired by the lunar rovers used by astronauts in space. As the lunar rover can drive anywhere on the moon our Armstrong can drive anywhere on top of a roof. With floating rear trolleys, traversing around corners is smooth. The lightness makes it ideal for even the lightest roof structures.

THE WEIGHT OF THE ARMSTRONG IS ONLY 280KG AND THE TWIN TRACKS ARE ONLY ABOUT 14KG/M

ARMSTRONG IS POWER TRAVERSED ON TWO TRACKS MOUNTED ON TOP OF THE ROOF HAVING TYPICAL BRACKET SPACING BETWEEN 2.0-3.0 METRES

THE TELESCOPIC SUSPENSION ARM IS RETRACTED WHEN THE ARMSTRONG IS NOT IN USE MAKING IT ALMOST NON-VISIBLE

ARMSTRONG HAS AN ADJUSTABLE OUTREACH BETWEEN 600MM AND 1400 MM

ONE SUSPENDED PLATFORM CAN BE SHARED BETWEEN MULTIPLE ROSTEK ROOF TROLLEYS

WITH FLOATING REAR TROLLEYS IT IS POSSIBLE TO TRAVERSE CORNERS WITHOUT DISCONNECTING THE SUSPENSION WIRES

DAVITS

A davit looks like a simple, small crane used for suspending platforms. A davit system consists of two main parts: the portable davit and the base plate or pedestal. The davit is the visual part and the base is plate mounted to the roof to which the davit is attached to.

Davits are usually one of the least expensive alternatives for facade access. The davit system is not permanently visible as it can be stored away when not in use.

Rostek davits have big wheels to make them easy to move. Erecting and lowering the davit is made as simple as possible for quick and efficient access. Often the davits are used together with a long modular suspended platform, making it possible to access up to 12 metre (40 feet) wide parts of a facade in one go before the davits are moved to a new location. The long platform makes the davits an efficient option for simple, straight facades. When the work is completed, the platform is hoisted to the roof, where it can be stored together with the davits.

The davit solution is a common access solution for simple facades. However as it is not traversing, the davits need to be manually moved.

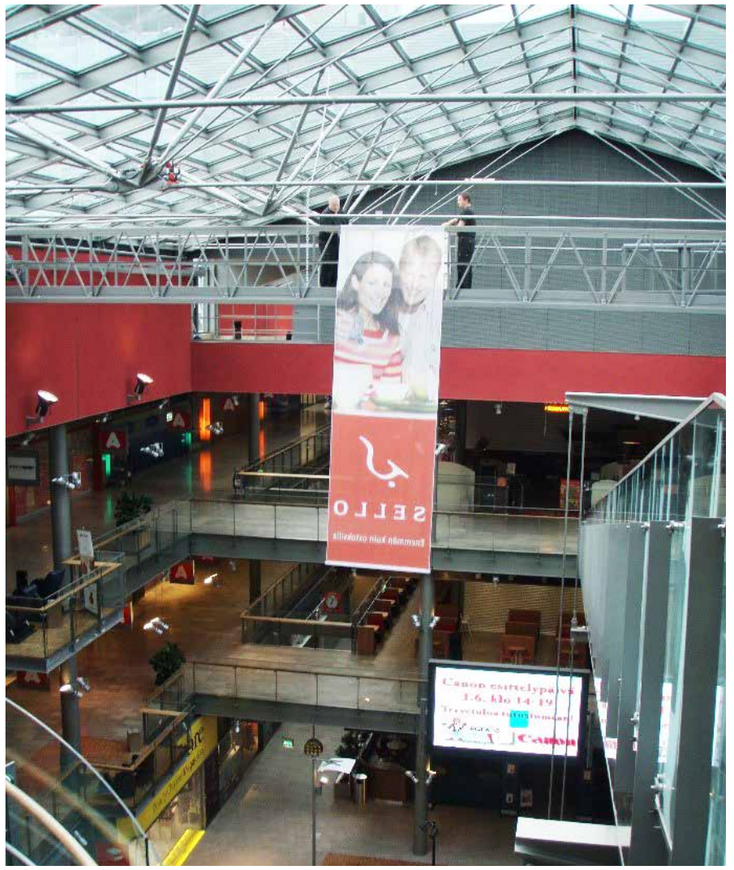
Rostek engineers will always help you to choose the optimum solution for your access needs. We always follow the local and international rules and regulations of the access systems and fulfil even the most demanding needs.

TRAVERSING GANTRIES

A maintenance gantry is a working platform that provides access to the roof surfaces which would otherwise be difficult or impossible to reach safely. When aesthetics is important, the gantries are designed to blend into the surroundings.

The typical use for a gantry is to access the inside or outside of glass roofs, or skylights. Often there is no or very limited floor space available for mobile platforms so the gantry is the only option.

The direct personal access to a glass roof can be restrictive. The glass roof can be slippery due to sand, water or ice. Sand can also scratch the glass when walking on top of it or the glass is not strong enough to support people. Therefore, a gantry on top of a glass roof is often needed. The strong handrails and floor structure make the gantry safe and stable. Sometimes there is a need for additional fall restraint systems, which are an integrated part of the gantry system.



The gantries are designed to travel along aluminium or steel tracks, with manual or motorised trolleys making it easy and efficient to access the whole roof area. The gantry is not only used for cleaning the glass roof, it is also used to maintain the sprinklers or other similar technical maintenance tasks and for hanging seasonal and advertising decorations. In shopping malls, it is even used to collect a run-away balloon from the ceiling. Even the wet and hot conditions of a zoo or a swimming stadium will not affect the long lifespan of the aluminium gantries.

It is possible to design the gantry in many configurations. In the simplest form the gantry is just a straight bridge. To make the gantry as unobtrusive as possible and to access the whole roof it is designed to follow the roof shape. The gantry can also have a telescopic extension if the area to access is not uniform. The gantry can be equipped with a tower for better vertical reach. Gantries can be designed to have a BMU cradle below. It can be then used to access the interior facades or places within the atrium void.

3000

Metres of Rostek Gantries installed to various locations around the world

TRAVERSING LADDERS

Normally ladders are used to climb from one level to another and real work is not recommended from them. However the Rostek traversing ladders are designed for work. Light construction work, repairs and maintenance tasks like window cleaning are typical tasks performed from the Rostek ladders.

When working on a rooftop, there is always a risk of falling. Changing conditions, such as water, snow, sand, or ice on the rooftop increase the risk of falling. While standing on a ladder this risk can be minimised. Also some of the glass roofs are not designed to support the weight of a person, therefore a ladder is needed to distribute the weight on stronger points. In addition, if there is sand or other dirt on the rooftop, it could scratch the glass surface when walked on.

The ladders are designed for small facades and negatively inclined facades. Negatively inclined facdes are often seen in the flight control towers.

With box ladders it is possible to safely climb inside the ladder. The box ladder can traverse easily with an electrical motor or manually along the tracks mounted on the building.

A mast climber is a little bit different looking “ladder” system. The systems consists of a traversing mast and a vertically moving basket made usullay for one or two persons.

Manual traverse is the normal way of moving a ladder. A ladder can also be driven up and down along an inclined glass roof with electrical motors or with hand crank trolley.

Box ladders are an ideal solution for flight control tower maintenance. Or any other negatively inclined facade. Rostek has over 20 years of experience for delivering solutions to different airports around the world.

The inclined ladders are laid just on top of the glass roof on aluminium tracks. It is easy and fast to perform any maintenance activities from the ladder.

Normally the vertical traversing ladders have small platforms to stand and work on but it is possible to have a small basket that can be moved with a hand driven winch.

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