



**remco**  
Building Systems



# industrial halls

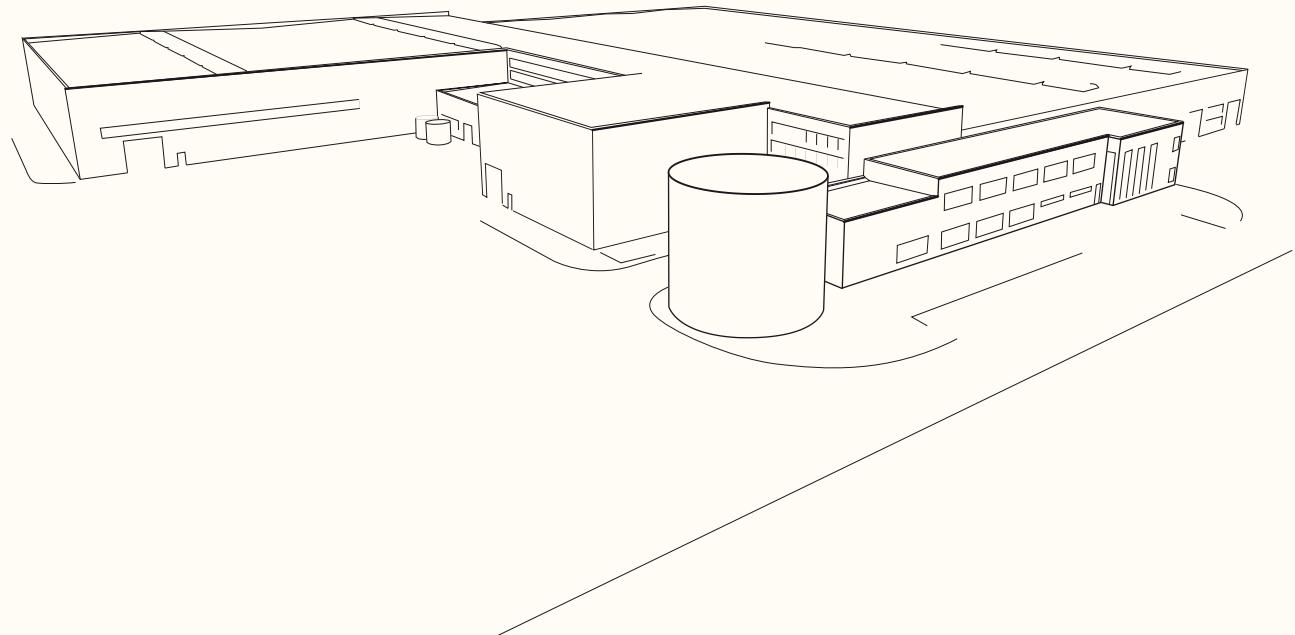
MODERN

Ocmer Sp. z o.o.



To be with the Investor from the moment when the idea of the facility is born

*... and stay also while the facility is in use.*



AQUILA,  
Radomsko



To be with the Investor from the moment when the idea of the facility is born

*... and stay also while the facility is in use.*



AQUILA,  
Radomsko



## Dear Customers!

*Let me present what we can do for you in terms of the design and construction of steel halls as well as in general contractorship of industrial facilities. Our experience is based on a long-term involvement in the building market resulting in hundreds of projects accomplished with our participation all over Poland.*

*The scope of our offer includes design and technical advice, delivery and assembly of steel halls, project management, investment trust as well as obtaining building permits.*

*Our company has built production halls, warehouses, shopping halls, sports arenas, logistics complexes, waste sorting plants as well as car service stations.*

*OCMER Sp. z o.o. belongs to Dutch Janssen de Jong Group and is a Remco's sister company. Remco is one of the leading manufacturers of light steel halls in Europe.*

*Satisfaction of our existing customers is the best recommendation for us.*

*We warmly invite you to cooperate with our company.*



CEO  
Krzysztof Bednarek, M.Sc. Eng.

# Renowned building traditions

- REMCO was established in the early 1970s based on the experience of the American KIRBY company. Although the company's head office and production site are located in Holland, it operates all over Europe. OCMER Sp. z o.o., based in Łódź, was established in 1994 as a regional representative of Dutch REMCO company.
- Over the past thirty years, in Holland only, REMCO built over 3000 buildings designed for various purposes. In 1995 the company was granted the ISO 9001 quality certificate.
- OCMER builds high-quality halls based on REMCO technology. Making use of rich achievements of its sister company as well as basing on its own experience, OCMER is able to provide optimal solutions tailored to the specific investor's needs. OCMER relies on domestic production.

OCMER's great technical capabilities, organizational efficiency and high level of professionalism have been confirmed by following projects completed:

2002	<b>POLROS S.A.</b> Rzgów k/Łodzi	(19674 m <sup>2</sup> )
2003	<b>LG ELECTRONICS</b> Mława	(7500 m <sup>2</sup> )
2004	<b>HOOP S.A.</b> Grodzisk Wielkopolski	(11000 m <sup>2</sup> )
2004	<b>VOS LOGISTICS</b> Płock	(9918 m <sup>2</sup> )
2005	<b>SCHENKER LOGISTICS</b> Pyskowice	(7000 m <sup>2</sup> )
2006	<b>EUROFAM</b> Zgierz	(7200 m <sup>2</sup> )
2006	<b>SUPERFOS</b> Lubień Kujawski	(16000 m <sup>2</sup> )
2007	<b>BSH Sp. z o.o.</b> Bukowiec k/Łodzi	(8 907 m <sup>2</sup> )
2008	<b>MEDAX</b> Kruszów k/Łodzi	(6270 m <sup>2</sup> )
2009	<b>AQUILA</b> Radomsko	(17174 m <sup>2</sup> )

Janssen de Jong Group from Holland has been the owner of 100% of OCMER's shares since 2000. In the same year Mr. Krzysztof Bednarek became the company's CEO. He defined ambitious goals for the company. Consequently, the company is proud of completing projects of total surface of several hundred thousand square meters between 1994 and the end of 2009. The company's reliability and dynamic development were confirmed by the following awards: *Business Gazelle* and *Fair Play Company*. Quality of services provided enabled the company to obtain ISO 9001:2009 Quality Management System Certificate.



HZ TRANSPORT, Częstochowa

OCMER specializes in the construction of large-area and large-span halls that can also be extended further. Numerous customers throughout Poland (individual investors as well as companies) have already taken advantage of the services provided by OCMER. We hope that you will be interested in our offer and become our customer.



PROMAG-MS, Kicin k/Poznań



BILPLAST, Łódź



HOOP S.A., Grodzisk Wielkopolski

# Reliable technology

- OCMER is the only company in Poland using the REMCO's building system. This system is characterized by a wide-spanning light steel construction (10-20 kg/m<sup>2</sup>) without interior supporting columns (up to 80 m), which allows the customer to use the space in the most effective way.
- The load-bearing structure consists of plain girder steel frames made of columns and spandrel beams with rigidity consistent with the course of the bending moments.
- Roof purlins and wall girts in the form of cold-formed steel sections are made of high-strength steel.
- The construction's stability is achieved by the use of „X”-type bracings made of round rods placed in the roof and the gable and along the longitudinal walls.
- The construction parts are bolted together during the assembly process.
- The system allows for hall and umbrella roof constructions with one or two slopes, one- or multi-bays, with or without insulation.
- At the customer's request, the hall's interior can be used as a two-floor office space, for instance, using a mezzanine construction.
- The construction can be adapted to enable the installation of crane girders and hoisting winches.



structure incl. overhead crane

## OCMER'S FULL OFFER INCLUDES:

- DESIGN
- DELIVERY
- ASSEMBLY
- GENERAL CONTRACTORSHIP OF INVESTMENT



HOOP S.A., Tychy

We are able to build a standard hall within 30 days.



We provide necessary space...



We take care of every detail...



We solve transportation problems...

# Reliable technology



load-bearing structure



skylights



roof structure

## Example of description of a light steel hall built according to Remco technology

### LOAD-BEARING STRUCTURE:

The load-bearing structure consists of a set of main frames and two end wall structures of changeable web height, together with a wind bracing consisting of intersecting rods, or portal frames. The main frame is welded together from steel plate into I-shaped solid webs. The dimensions are in accordance with the drawings and structural analysis. The complete load-bearing structure is made of steel S235JRG2 (St3S) or S355JR (I8G2A). The steel is grit blasted to achieve SA 2.5 cleanliness class and covered with a 125 micron-thick Amercoat anti-corrosion layer in the RAL 7035 colour. All connections in the structure are made with the use of high quality steel bolts.

### ROOF STRUCTURE:

Load-bearing structure of the roof (skeleton) is made of cold-formed Z-type steel purlins to which profiled steel panels are attached. The steel purlins are galvanised on both sides with the zinc layer of total thickness of 275 g/m<sup>2</sup> (Z-275). The roof panels are zinc / aluminium alloy coated on both sides. They are attached using self-tapping screws furnished with neoprene washers to avoid leakage. A self-adhesive, non-drying sealing tape is applied in all the over-lapping areas both lengthways and crossways. Filling strips of polyethylene foam are used under the roof panels around the gutter in order to obtain complete sealing.

### GUTTERS AND DOWNSPOUTS:

A system of roof gutters and downspouts forms an integral part of the building. Gutters are made of steel sheet galvanised on both sides. The outside surface is coated with polyester in the facade colour or a colour chosen from our standard colour palette while the inside surface is coated with a grey colour primer. Downspouts are made of PVC pipes (ø 11 cm) in a RAL colour chosen from our standard colour palette.

### ROOF INSULATION:

The insulation consists of glass fibre insulation blankets having typical thickness of 140 mm and U=0.28 W/m<sup>2</sup>K coefficient. The blankets are applied between the roof purlins and the roof panels and are built up as follows: a white vinyl layer with a linen pattern emboss, type CF 305 (visible side), a fibre glass scrim reinforcement 6 x 8 mm and an aluminium foil as a good moisture and vapour barrier. To obtain an unbroken damp proof layer the seams are sealed using a specially folded and stapled seam. „Iso-blocks” (19 x 60 x 1000 mm) are placed between the roof insulation blankets and the profiled roof panels at the girt locations.

### SKYLIGHTS:

In the roof construction translucent double walled panels are placed. The top sheet is a profiled polyester opal coloured sheet with its shape matching the roof cladding. The second sheet is a clear polycarbonate channel sheet. Both sheets are airtight glued together.

### WALL CONSTRUCTION:

The wall is made of cold-formed steel girts to which profiled steel wall panels are attached. The steel girts are galvanised on both sides; total thickness of zinc layer is 275 g/m<sup>2</sup> (Z-275). The wall panels are zinc-coated on both sides. The front side is polyester coated. The colour can be chosen from our standard colour palette. The inside surface is coated with a light grey primer. The wall panels are attached using self-tapping screws furnished with neoprene washers to avoid leakage. The underside of the panelling is finished with a sill profile. The wall panelling starts at the level of +35 cm.

### WALL INSULATION:

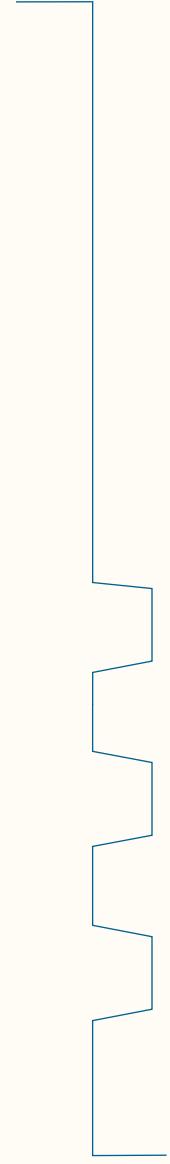
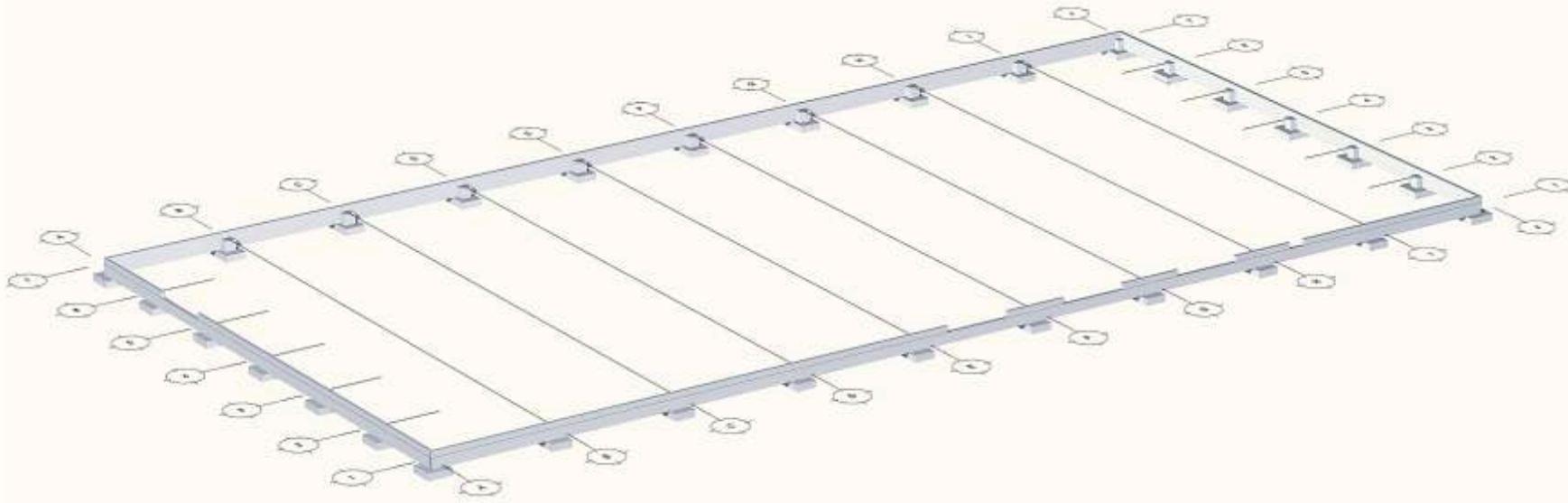
The insulation consist of glass fibre insulation blankets of the usual thickness of 100 mm and U=0.38 W/m<sup>2</sup> K coefficient. The blankets are applied between the girts and the wall panels and are built up as follows (beginning from the visible side): a white vinyl layer with a linen pattern emboss (type CF 305), a fibre glass scrim reinforcement 6 x 8 mm and an aluminium foil as a good moisture and vapour barrier. To ensure an unbroken damp proof layer the seams are sealed using a specially folded and stapled seam.

### LINER PANELLING:

For the internal system walls, profiled steel panels are applied to the inside of the wall girts. The panels are zinc-coated on both sides. The visible side is polyester coated (for example white). The rear side is coated with a light grey colour primer.

### WALL OPENINGS:

For the openings in the wall, like transport doors, walkthrough doors and windows, the necessary jambs are made out of galvanised "C" profiles.



# Modern technological solutions

## Load-bearing structure

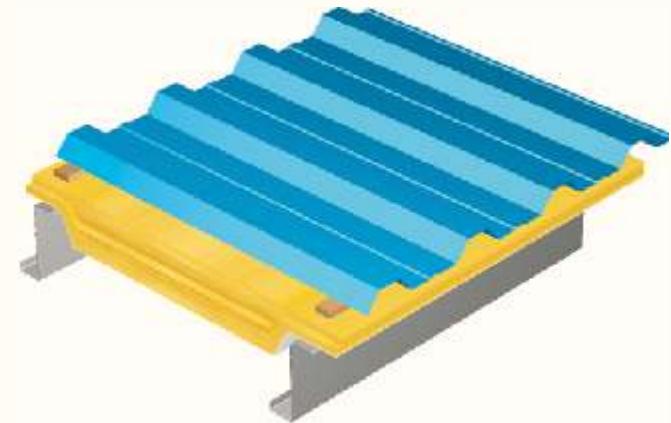
- efficient use of steel,
- wide spans with no internal supporting columns.

## Insulation

- good thermal and acoustic characteristics,
- diversity of layers and their thickness.

## Cladding

- trapezoid steel sheets,
- diversity of roof and wall constructions.



The basic outer shell of a REMCO hall is made of trapezoid steel sheets. The sheets are zinc and aluminium coated on both sides which gives them a lasting anticorrosive protection. The zinc-galvanized wall panels are additionally coated with polyester paint in colours to give the facade a pleasing aesthetic appearance.

In the REMCO system, the roof and wall insulation consists of fibreglass blankets which are covered on the outside with a damp proof layer with an attractive texture. This solution makes it possible to install the outer layer quickly. Moreover, the layer provides very good sound absorbing characteristics.

The designed halls and umbrella roof constructions can be optionally fitted with arch or flat skylights. At the customer's request, the presented solution can be modified to meet individual needs, by using sandwich panels for instance.



BAHPOL, Klobuck

We make constructions using high quality materials and putting special emphasis on aesthetic appearance of the facilities.



We offer: unique facade...



spacious interior...



comfortable office space...



Contract



Design works



Project completion

# Professional customer service

## Comprehensive service

Each Customer is offered a full range of services which include all our design, technical, logistic and legal solutions.

## Optimal solutions

Working closely with the customer, we always choose the optimal solution to satisfy his needs. Our skilled engineering staff provides the highest quality services at a reasonable price.

## Individual approach

The project specifications are negotiated individually with each customer. We put special emphasis on convenient deadlines and contract conditions.

## Reliability

All design work takes place in Poland at our well-equipped design office. All designs are made in compliance with the Polish Building Regulations.

## Flexibility

We always start construction works on time and keep to the work schedule. The project can be modified at the customer's request when the need arises.

## On time

The realized buildings have always been completed on time with exquisite workmanship. No problems have been encountered so far during the technical acceptance process.



We take care of the customer and investment after the project has been finished providing professional advice and help, offering support during the entire usage of the hall.



KAMAL, Pawłowo



COREX, Świecie



POLROS, Rzgów

# References...



HOOP S.A., Tychy

„... HOOP S.A. based in Warsaw, has been cooperating with Ocmer Sp. z o.o. since June 1999. Ocmer has faultlessly carried out the entire task concerning the general contractorship including: meeting deadlines, executing contracts in all their details and fulfilling quality requirements.

... Ocmer Sp. z o.o. can be recommended as a reliable partner in handling and performing difficult investment tasks.”

**HOOP**  
SPÓŁKA AKCYJNA

DYREKTOR NACZELNY  
*Roman T. Kląskala*  
Roman T. Kląskala



POLROS S.A., Gospodarz k/Łodzi

...Ocmer Sp. z o.o. has built two steel halls for us. The company has fulfilled perfectly all its obligations and carried out its tasks...

...After several years of our cooperation, Ocmer has proved to be a reliable and trustworthy business partner. The investors who decide to order construction works from Ocmer can expect high quality of works, very good organization of installation works along with professional management.

**POLROS SA**  
65-020 Rogów k/Łodzi, ul. Fabryczna 71/77  
tel./fax 42) 719 14 60  
NIP 726-23-81-751, REGON 401127667

Z poważaniem  
*[Signature]*  
mgr inż. Andrzej Gałkiewicz  
Właściciel



VTS CLIMA Sp. z o.o., Gdynia Pogórze

„...Ocmer’s responsibility was to deliver a steel construction including the roof and wall encasings and their complete assembly. In my opinion, all the works were performed reliably, on time and in a professional manner. Therefore, I strongly recommend Ocmer as an excellent contractor for manufacturing halls.”

Dyrektor Techniczny,  
mgr inż. Zbigniew Bułakowski

**VTS CLIMA** Sp. z o.o.  
65-126 Koszęca (Pogórze) ul. Fab. Długa 230  
tel. +48 58 825 13 54 fax +48 58 628 13 22



ORSA-MOTO Sp. z o.o., Ozorków

...Between 2000 and 2004, Ocmer built five production-warehouse halls for us with a total area of 13000m<sup>2</sup>.

...The design works and assembly works were carried out very efficiently and professionally. The cooperation with this company is characterized by a high professional level of its engineering and technical staff.

DYREKTOR NACZELNY  
*[Signature]*  
inż. Marek Czystowski



## ...the following are the examples of the projects we completed

<b>1996</b>	<b>GLAYERBEL WIGLAV</b>	Warszawa	(3000 m <sup>2</sup> )	<b>2004</b>	<b>BRENNTAG POLSKA</b>	Zgierz	(hall 5073 m <sup>2</sup> office 800 m <sup>2</sup> )
<b>1997</b>	<b>MECAPOL</b>	Wągrowiec	(6000 m <sup>2</sup> )	<b>2004</b>	<b>HOOP III</b>	Grodzisk Wlkp.	(11000 m <sup>2</sup> )
<b>1997</b>	<b>DUSAR INDUSTRIE</b>	Środa Wlkp.	(12200 m <sup>2</sup> )	<b>2004</b>	<b>DEG-OR Sp. z o.o.</b>	Warszawa	(7659 m <sup>2</sup> )
<b>1997</b>	<b>RAAB KARCHER</b>	Warszawa	(7700 m <sup>2</sup> )	<b>2004</b>	<b>VOS LOGISTICS</b>	Płock	(9918 m <sup>2</sup> )
<b>1998</b>	<b>WR-SRH, complex of 7 halls</b>	Bronisze	(70000 m <sup>2</sup> )	<b>2005</b>	<b>SCHENKER Sp. z o.o.</b>	Pyskowice	(7000 m <sup>2</sup> )
<b>1998</b>	<b>VITROSERVICE CLIMA</b>	Gdynia Pogórze	(8817 m <sup>2</sup> )	<b>2005</b>	<b>TFP II</b>	Kórnik	(5113 m <sup>2</sup> )
<b>2000</b>	<b>ORSA-MOTO</b>	Ozorków	(4500 m <sup>2</sup> )	<b>2005</b>	<b>WEMECO Sp. z o.o.</b>	Kudowa Zdrój	(2377 m <sup>2</sup> )
<b>2000</b>	<b>POLROS</b>	Gospodarz k/Łodzi	(8668 m <sup>2</sup> )	<b>2005</b>	<b>SCHENKER II</b>	Łódź	(4000 m <sup>2</sup> )
<b>2000</b>	<b>POLSKA WODA Sp. z o.o.</b>	Aleksandria	(8765 m <sup>2</sup> )	<b>2005</b>	<b>DURABLE Sp. z o.o.</b>	Przeclaw	(4011 m <sup>2</sup> )
<b>2001</b>	<b>AFLOFARM Sp. z o.o.</b>	Ksawerów	(2246 m <sup>2</sup> )	<b>2006</b>	<b>NONNA &amp; SONS</b>	Tychy	(4022 m <sup>2</sup> )
<b>2001</b>	<b>HOOP S.A.</b>	Bielsk Podlaski	(9500 m <sup>2</sup> )	<b>2006</b>	<b>POL-SKONE IV</b>	Niemce	(4976 m <sup>2</sup> )
<b>2001</b>	<b>ORLEN PETROPOLIMER</b>	Płock	(2010 m <sup>2</sup> )	<b>2006</b>	<b>EUROFOAM II</b>	Zgierz	(7200 m <sup>2</sup> )
<b>2001</b>	<b>DGS II</b>	Włocławek	(6900 m <sup>2</sup> )	<b>2006</b>	<b>SUPERFOS WŁOCLAWEK</b>	Lubień Kujawski	(16000 m <sup>2</sup> )
<b>2002</b>	<b>POLROS II</b>	Rzgów	(19674 m <sup>2</sup> )	<b>2006</b>	<b>POL-ORSA</b>	Żary	(5000 m <sup>2</sup> )
<b>2002/03</b>	<b>AZJA-CENTRUM</b>	Jabłonowo	(6250 m <sup>2</sup> )	<b>2006</b>	<b>KPM Sp. z o.o.</b>	Wrocław	(6000 m <sup>2</sup> )
<b>2002/03</b>	<b>HOOP II</b>	Tychy	(hall 8244 m <sup>2</sup> office 1808 m <sup>2</sup> )	<b>2007</b>	<b>BSH Sp. z o.o.</b>	Bukowiec k/Łodzi	(8907 m <sup>2</sup> )
<b>2003</b>	<b>LG ELECTRONICS II</b>	Mława	(7500 m <sup>2</sup> )	<b>2007</b>	<b>POLI-ECO Sp. z o.o.</b>	Żary	(5150 m <sup>2</sup> )
<b>2003</b>	<b>DUSAR INDUSTRIE III</b>	Środa Wlkp.	(6300 m <sup>2</sup> )	<b>2008</b>	<b>MEDAX</b>	Kruszów k/Łodzi	(6270 m <sup>2</sup> )
<b>2004</b>	<b>H.Z. TRANSPORT</b>	Częstochowa	(1000 m <sup>2</sup> )	<b>2009</b>	<b>AQUILA</b>	Radomsko	(17174 m <sup>2</sup> )



**remco**  
Building Systems



**Ocmer Sp. z o.o.**  
90-437 Łódź, Al. Kościuszki 80/82  
tel. (48) 42 634 87 90, fax (48) 42 630 63 43  
e-mail: [office@ocmer.com.pl](mailto:office@ocmer.com.pl)  
[www.ocmer.com.pl](http://www.ocmer.com.pl)