Evergreen Skytrain
Track Record 2015

Location of project
Burnaby and Coquitlam, British Columbia, Canada

Product/system used
Area 1 - 7 Skytrain stations
Cathacoat® 313
Bar-rust® 236
Devthane® 379
Area 2 - LIM rails
Intergard 345
Area 3 - Trapezoidal bridges
Cathacoat 302HB
Bar-rust 236
Devthane 379

Project owner
BC Rapid Transit Co. LTD

Applicator
Canron Western Constructors

ISO12944 environment
C-3 High Durability

Surface preparation
SPPC- SPI10
2-3 mil sharp angular pro

Total volume
12,600 gallons (47696.19 liters)

Total area
775,000 sq ft (71999.8 m²)

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Podium en luifel plein 1945 Petten
Track record 2016

Applied system
Intergard® 269 @ 40μm (2 mils)
Intergard 475 @ 180μm (7 mils)
Autoclear matt

Location of application
The Netherlands

Project owner
Gemeente Delft

Applicator
Straalbedrijf Petersen b.v.

Architect/engineer
IPV Delft
Birmingham New St St Station

Track record 2015

Location of application
Birmingham, UK

Products/system used
N4 system - 4,000m²
  Intercure® 324 @ 100μm, Intercure 384 @ 125μm, Interthane® 990 @ 50μm
M24 system - 2,000m²
  Interseal® 670HS @ 125μm, Interthane 990 @ 50μm

Project owner
Network Rail

Engineer
MACE

Applicator/fabricator
Martifer

ISO12944 environment
C3

Total volume
12,000 litres

Total area
6,000m²

Tonnage coated
1,200 ton

The applicator/fabricator Martifer is also in charge of the structural steelwork for the roof, the supply and assembly of the entrance level façades and doors, with firebreak and bomb blast equipped areas, and the modular façade of the John Lewis department store.
Intan College of Sarawak
Track record 2010

Location of project
Kota Samarahan, Sarawak, Malaysia

Products/system used
Interseal® 670HS, Interchar® 963, Interthane® 990

Project owner
Institut Tadbiran Awam Negara,
Jabatan Perkhidmatan Awam

Applicator/Fabricator
Swee Ho Construction Work Sdn Bhd

ISO12944 environment
C2

Total area
2,284m² (24,585ft²)
Onesteel no2 Pellet Jetty Refurbishment

Case history 2010

Area inspected 1
All structural steel supporting jetty decking excellent condition.

Area inspected 2
Structural steel jetty supports excellent condition.

Area inspected 3
Piles were wrapped with Denso.

Focus product: Interzone® 954 @ 400μm (16 mils) and extra 350μm (14 mils) stripe coat to edges

Year of project: 2006
Location: Australia
Type of project: Ship loading facility
Project owner: Onesteel Pty Ltd
Project size: Approx 9,000m² (96,875ft²)

The customer wanted a product that could be applied in 1 coat at 400μm dft, surface tolerant and could be applied over ultra high pressure water blasted and also dry grit blasted surface preparation.

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AkzoNobel
## Melaka International Trading Corporation Convention Centre

### Track record 2011

<table>
<thead>
<tr>
<th>Location of project</th>
<th>Project owner</th>
<th>ISO12944 environment</th>
<th>Total area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malaysia</td>
<td>MITC, Melaka State Government</td>
<td>C2</td>
<td>15,000m² (161,459ft²)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Products/system used</th>
<th>Applicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interseal® 670HS and Interthane® 990 Aluminium</td>
<td>Nordin Group</td>
</tr>
</tbody>
</table>

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pc.communication@akzonobel.com
# Splash Party Roller Coaster St. Yas Island

**Track record 2011**

<table>
<thead>
<tr>
<th>Location of project</th>
<th>Project owner</th>
<th>ISO12944 environment</th>
<th>Total area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abu Dhabi</td>
<td>Vekoma</td>
<td>C5-I Heavy Industrial (High Durability)</td>
<td>2,600m² (27,986ft²)</td>
</tr>
</tbody>
</table>

**Products/system used**
- Interzinc® 52, Intergard® 475HS MIO, Interfine® 979

**Applicator/Fabricator**

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## Ernst & Young Tower at Latitude

**Track record 2003**

<table>
<thead>
<tr>
<th>Location of project</th>
<th>Products/system used</th>
<th>Architect</th>
<th>Contractor</th>
<th>ISO12944 environment</th>
<th>Total area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sydney, Australia</td>
<td>Area 1 - External steel Interzinc® 52, Intercure® 420, Interthane® 990 Metallic</td>
<td></td>
<td></td>
<td>C2</td>
<td>55,500m² (597,397ft²)</td>
</tr>
<tr>
<td></td>
<td>Area 2 - Spire Interzinc 52, Interfine® 979</td>
<td>Greg Crone</td>
<td>Multiplex</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area 3 - Internal steel Intercure 200, Interthane 870</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Project owner</td>
<td>Ernst &amp; Young</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Project owner**

Ernst & Young
New York Times Building

Track record 2003

Location of project
New York, USA

Products/system used
Epoxy Intumescent Fire Protection

Project owner
The New York Times Company

Fabricator
Owen Steel and AFCO Steel

ISO12944 environment
C3

Total area
23,225m² (249,992ft²)

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Deutschebank Place

Track record 2003

Location of project
Sydney, Australia

Products/system used
System 1
Interzinc® 315, Intercure® 420, Interthane® 870

System 2
Interzinc 315, Intercure 420, Interthane 990 Metallic

Project owner
Investa Property Group

Applicator/Fabricator
Nepean Engineering Pty Ltd

Contractor
Bovis Lend Lease

Architect
Foster and Partners

ISO12944 environment
C4

Total area
25,000m² (269,098ft²)

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Olympic Park Railway Station

Track record 1998

Location of project
Sydney, Australia

Products/system used
Interzinc® 315, Intercure® 420, Interfine® 630

Project owner
Olympic Coordination Authority

Contractor
Leighton Contractors

ISO12944 environment
C3
Victoria Hospital
Track record 2009

Location of project
Kirkcaldy, Fife, Scotland

Products/system used
Interchar® 1120 - 2 hour Fire Protection

Project owner
Balfour Beatty Construction Ltd

Applicator
Pegasus Fire Protection Ltd

Total area
56,000m² (602,779ft²)

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Yas Island Project

Track record 2009

Location of project
Abu Dhabi, United Arab Emirates

Products/system used
Interzinc® 52, Intergard® 475HS, Interthane® 990

Project owner
Aldar Besix/Mubadala

Applicator
Amana Industries AL Jaber Group

Structural consultant
Arup/Ramboll

ISO12944 environment
C4

Total volume
50,000 litres (13,209 gals)

Project size
15,000 tons

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Washington University School of Medicine

Track record 2009

Location of project
St. Louis, USA

Products/system used
Intergard® 251, Chartek® 1709, Interthane® 990

Project owner
Washington University School of Medicine

Applicator
S.M. Wilson

ISO12944 environment
C2

Total volume
17,237 kg (38,000 lbs) of Chartek 1709

Total area
743m² (8,000ft²)

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Pabellon Puente
Track record 2008

Location of project
Zaragoza, Spain

Products/system used
Area 1 - Interior steel
Interchar® 404, Interthane® 870

Area 2 - Exterior steel
Interplus® 256, Intergard® 475, Interthane 870

Area 3 - Immersion
Interseal® 670HS

Project owner
Inter Ocean Services

Applicator
Tecoin

ISO12944 environment
C4

Total area
14,000m² (150,600ft²)
London Eye
Track record 2003

Location of project
London, UK

Products/system used
Interseal® 670HS
Interfine® 979

Project owner
Merlin Entertainment

Applicator
SA Clovers

ISO12944 environment
C3 light industrial

Area coated
30,000 m² (328,200 ft²)

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Palacio de Congresos
Track record 2008

Location of project
Zaragoza, Spain

Products/system used
Interchar® 404

Applicator
Aplitecs

ISO12944 environment
C1

Total area
14,000m² (150,600ft²)

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Spinnaker Tower
Track record 2005

Location of project
UK

Products/system used
Interzinc® 52HS - 75μm (3 mils)
Interfine® 979 - 125μm (5 mils)

Project owner
Portsmouth County Council

Applicator
Jack Tighe

ISO12944 environment
C4

Total area
6,000m² (64,500ft²)
Krekshino Customs Terminal

Track record 2006

Location of project
Russia

Products/system used
Interchar® 963

Project owner
Federal Customs Service of Russia

Applicator
Mochba Ltd.

ISO 12944 environment
C2 Non industrial (high durability)

Area coated
19,500 m² (209,800 ft²)
Rotterdam Central Station
Track record 2011

Location of project
The Netherlands

Products/system used
Interchar® 404, Intergard® 251, Interthane® 870, Intercure® 200, Intergard® 475HS

Project owner
Gemeente Rotterdam

Applicator/Fabricator
Iemants NV

ISO12944 Environment
Fireproofing system

Total area
Approx. 40,000m² (430,556ft²)

Total volume
32,800 litres (8,665 gals)
Wuxi Grand Theatre

Case study 2011

Background
The Wuxi Grand Theatre covers a total area of 100,000 m² and stands on the south bank of the Lihu Lake. The building, which has been compared with the Sydney Opera House, is designed to look like a dragonfly with a roof constructed in eight wing-shape sections. Costing over RMB 1bn to build, it was completed in May 2011. The development consists of a main performing hall with a capacity of 1700 and second multi-function hall with a capacity of 700.

The solution
During the initial design phase, the roles and areas of influence of PES in Finland and China were established and a dialogue began with both offices. AkzoNobel secured sole specification from the owner and our products were specified within the technical requirements of the design documents. At the beginning, both Interfine® 878 and Interthane 990 were considered but finally, a top coat of Interthane 990 only was selected as the architect required a metallic coloring. The product was also chosen for its long term recoatibility. Several fabricators bidding on the project were identified and visited by AkzoNobel. All companies in the contract chain have been satisfied with our products in terms of quality, aesthetics and also technical support.

Focus product: Interthane® 990 Metallic
Year of project: 2008 through to 2011
Location: China
Project owner: Office for the Important Urban Projects, Culture and Art Administration in Wuxi
Fabricator: Jiangsu Huning Steel Mechanism Co., Ltd
Architect: PES in Finland
LDI: Shanghai Institute of Architectural Design & Research (SIADR)
Project size: 70,000m² (753,474ft²)
ChongQing Light Railway
Case study 2012

Background
Line 3 of Chongqing light rail is currently being constructed in 3 phases. Phases 1 and 2 are now finished, with phase 3 ongoing. The project is very well known as the light railway runs the length of ChongQing city. This project was introduced to reduce traffic jams in the city and in addition the government has decided to build series of light railways. The owner has high quality requirements for this project in terms of aesthetics and particularly in terms of safety for users of public transport. The customer requires excellent anticorrosion and fire protection performance. In a fire, it is essential that people have enough time to escape the building.

The solution
From hundreds of paint suppliers and local brands, AkzoNobel were chosen to provide the most appropriate solutions for the customers expectations. The customer was primarily impressed by our performance and high level of service.

The Interchar Range of intumescents from AkzoNobel is designed to provide safety to people by protecting structural steelwork from a cellulosic or “standard” fire for periods of up to three hours. Interchar, AkzoNobel’s comprehensive range of thin film acrylic coatings provides an efficient method to protect steelwork while maintaining the visual and architectural aesthetics of a structure. To account for severe environmental exposures, durable epoxy Interchar intumescents are also available. In addition to durability, these extremely resilient intumescent coatings have the benefit of testing against blast and impact.

The owner chose our products for their high quality and aesthetics as well as for our testing processes. At AkzoNobel we ensure that all of our Interchar products are independently tested and certified. This involves type testing and audit testing for fire and non-fire performance together with factory production control.

Focus product: Interchar 973, Interchar 1120, Interchar 1983 (also Interzinc 42, Intergard 475HS & Interthane 990)
Year of project: 2009 through to 2012
Location: China
Project owner: Chongqing Metro Co., Ltd.
Applicator/fabricator: Metallurgical Construction Co., Ltd.
Surface preparation: Sa 2.5
ISO12944 environment: C3
Project size: 80,000L
Azerbaijan Carpet Museum

Track record 2011

<table>
<thead>
<tr>
<th>Location of project</th>
<th>Applicator</th>
<th>Volume of paint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baku, Azerbaijan</td>
<td>KBB/MEISSL</td>
<td>8,000 litres (2,113 gals)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Products/system used</th>
<th>Contractor</th>
<th>ISO12944 environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interchar® 963, Interchar® 973</td>
<td>NCA</td>
<td>C1 Fireproofing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azerbaijan Tourism and Culture Ministry</td>
</tr>
</tbody>
</table>
Shanghai Tower Building

Case study 2014

Background
The Shanghai Tower Building will be the tallest building in Shanghai at a height of 632 metres. The construction area in total adds up to 576,000m². Three shareholders form the equity partnership for the Shanghai Tower and are jointly funding the development and construction of the building with registered capital of RMB 5.4 billion.

Side by side with the Jinmao Tower and the World Financial Center, the Shanghai Tower is located at the heart of the Lujiazui Finance & Trade Zone. Together this trio will redefine the Lujiazui area skyline and provide it with a new look, which will in turn demonstrate success of the Pudong New Area.

Driven to pursue the “highest, noblest and most exquisite” design and development objectives for Shanghai Tower, the corporation is leveraging more than 10 years of construction management and market expertise to deliver a landmark building worthy of Shanghai’s place on the world stage.

The solution
Interchar 1983 is a single component, solvent borne, high solids intumescent coating independently tested to assess fire protection performance on structural steelwork in accordance with Chinese Standard GB 14907-2002. It has been tested to GB14907 for internal and external use. The intended use is to provide fire protection for stair steel structures and facade supporting steel structures up to 1.5 hours. Interchar 1983 represents the latest development in fire protection and is supported by over 30 years experience in this field. In house testing has been completed in Suzhou prior to the project to confirm compatibility of the primer and the system. Topcoats will be applied on site.

Interchar 1983 is suitable for application in both on and off-site application facilities and can be used over a range of approved priming systems. Applied as a thin layer, our product does not compromise intricate designs and shapes created from the structural steel. It is also an easy over coating with a wide range of coloured finishes allowing the full design features to be fully displayed. That is why even though there was tough competition during the tender period, AkzoNobel’s system was chosen as being the most suitable product solution for this project.

Focus product: Interchar® 1983
Year of project: 2009 through to 2014
Location: Pudong, Shanghai, China
Project owner: Shanghai Tower Construction and Development Co., Ltd
Fabricator: Shanghai BaoSteel Construction Co., Ltd / Jiangsu Huning Steel Mechanism Co., Ltd
Applicator: Shanghai Research Institute of Building Sciences
Surface preparation: ISO 8501-1 Sa 2.5
ISO12944 environment: C3
Project size: 200,000 litres

Our first class products, the Technical Service Representative and our high quality of service all contributed towards our success at the Shanghai Tower.
Sarawak Energy Berhad
Corporate Office

Location of project
Malaysia

Products/system used
Intergard® 251, Intergard 475HS, Interthane® 990

Project owner
Sarawak Energy Berhad

Applicator/Fabricator
KKB Engineering Berhad

ISO12944 environment
C3

Project size
10,000 m²
Rehabilitation of Metal Sheet Piles and Piles Springs

Track record 2013

Location of project
El Salvador

Products/system used
Interzone® 954 @ 610μm (24 mils)

Project owner
Comisión Ejecutiva Portuaria Autónoma

Applicator
CYMCA S.A. de C.V.

ISO12944 environment
C5M

Total area
50,000m²

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Location of project
Abu Dhabi, UAE

Products/system used
Interzinc® 52
Intergard® 475HS
Interthane® 990

Project owner
Viceroy Hotels

Applicator
Al Jaber

ISO12944 environment
C3

Surface preparation
Sa2.5
Perth Arena
Track record 2011

Location of project
Perth, Australia

Products/system used
Area 1 - Interzinc® 86
Area 2 - Interplus® 356, Interfine® 979, Interfine® 878

Project owner
Western Australia Government

Applicator
Ferro Clean

Fabricator
Park Engineering, Kays Engineering and Vector Lifting

ISO12944 environment
C3

Project size
160,000m² (1,722,226ft²)

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Port Lincoln Hospital
Track record 2013

Location of project
South Australia

Products/system used
Focus product
Interchar® 963

Additional products
Interzinc® 86, Intergard® 269, Interthane® 870

Project owner
SA Government

Applicator
Gubby Painting Contractors

Fabricator
SA Structural

Specifier
Aurecon

ISO12944 environment
C2

Surface preparation
Sa 2.5

Total area
2,500m² (26,910ft²)

“Single source solution
i.e. primer, intumescent and topcoat from one manufacturer”

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Cameron Bridge Distillery

Case study 2013

Background
Interchar bolt caps were successfully used on the Cameron Bridge Distillery, Leven, Fife – this was a two hour protection requirement and Interchar 1190 was applied to the steel offsite by Central Blasting and Painting and transported to and erected on site with no damage. This left only the bolted connection remaining to be protected.

The solution
The installation contractor was Graham Robinson of Tayblast who stated “using bolt caps made the time on site to protect the bolted connections an absolute minimum, one tap and they are done. This job was a dream as the intumescent paint had all been applied offsite and the bolts were the only thing left - no mess, no wasting time on cherry pickers, no paint on site, no multiple coating. I would recommend and use again - neat, effective and efficient.”

This was a good example of best practice with minimum time spent on site and maximum protection that is repeatable and efficient to install and it does not cost more and there are no waste disposal or inspections costs.
Refrigeration module

Track record 2013

Location of project
Azerbaijan

Products/system used
- Intergard® 740 @ 50μm (2 mils)
- Interzone® 954 @ 300μm (11.8 mils)
- Interseal® 670HS @ 150μm (5.9 mils)
- Intergard® 740 @ 50μm (2 mils)

Project owner
Sfera 96

Surface preparation
St3 Mechanical cleaning

ISO 12944 environment
C4 High corrosive environment

Project size
512m² (5,511ft²)
Azerbaijan International Bus Terminal

Track record 2009

Location of project
Azerbaijan

Products/system used
- Intergard® 251 @ 50µm (2 mils)
- Intergard® 475 @ 200µm (8 mils)
- Interthane® 990 @ 50µm (2 mils)

Project owner
Ministry of Transport of Azerbaijan Republic

Applicator
PCH

Fabricator
ZQAN Holding

ISO12944 environment
C1 Heated buildings/neutral atmosphere

Project size
24,000m² (258,334ft²)

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### AMP building roof facade

**Track record 2013**

<table>
<thead>
<tr>
<th>Location of project</th>
<th>Products/system used</th>
<th>ISO12944 environment</th>
<th>Project size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Roof Facade - Interplus® 356, Interfine® 1080</td>
<td>C3</td>
<td>20,000m² (215,278ft²)</td>
</tr>
</tbody>
</table>

**Project owner**
- AMP

**Applicator**
- Higgins Coatings

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DLTP Moorebank Logistics Centre
Track record 2013

Location of project
Australia

Products/system used
Intergard® 345, Intercure® 200, Intergard® 420, interthane® 870

Project owner
New South Wales Government

Applicator/Fabricator
Hutchins Bros Engineering

ISO12944 environment
C3

Project size
800 tons

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Corio Villa Heritage Steel House

Track record 2013

Location of project
Australia

Products/system used
Interzinc® 52, Interplus® 356, Interthane® 990

Project owner
Barwon Water

Applicator
Hydroblast

ISO12944 environment
C4
Melbourne Star Observation Wheel
Track record 2013

Location of project
Australia

Products/system used
Interzinc® 52, Interfine® 979

Project owner
Sanoyas Rides Corporation

Applicator
Action Alliance
McElligotts (Tas)

Fabricator
Haywards
Alfası Constructions

ISO12944 environment
C4

Project size
1200 tonnes of steel

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8 Chifley Square
Track record 2012

Location of project: Australia

Products/system used:
Area 1 - Interfine® acrylic polysiloxane
Area 2 - Interzinc® 52 @ 75μm (3 mils)
Intergard® 475 @ 200μm (8 mils)
Interfine® 878 @ 75μm (3 mils)

Project owner: Mirvac
Applicator/Fabricator: Nepean Engineering - Jinggong steel

ISO12944 environment: C4
Project size: 21,700m² (233,577ft²)

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Wigram Airforce Museum

Track record 2012

Location of project
New Zealand

Products/system used
Interzinc® 42, Interthane® 990

Applicator
Abrasive Blasting Contractors

Fabricator
John Jones Steel

ISO 12944 environment
C2 Low

Total area
4,000m² (43,056ft²)

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Auckland Art Gallery Toi o Tāmaki

Track record 2011

Location of project
Auckland, New Zealand

Products/system used
Interzinc® 42, Intergard® 251,
Interchar® 963, Interthane® 990

Main contractor
Hawkins Construction

Fabricator
Enterprize Steel

Architect
Jasmax

Project size
6,500m² (69,965ft²)

All images courtesy of Auckland Art Gallery Toi o Tāmaki
ASB North Wharf

Track record 2012

Location of project
Auckland, New Zealand

Applicator
Gritblast, Contract Coatings

Fabricator
Grayson’s Engineering

Architect
Jasmax

External Steelwork:
Interzinc® 52, Intergard® 345,
Interthane® 870 Metallic

Internal Steelwork:
Intercure® 200, Interchar® 963,
Intersheen® 579

External Fibreglass:
Intergard® 269, Interfine® 878

Main contractor
Fletchers Construction

Project size
9,000m² (96,875ft²)
### Abdullah Gul University

**Track record 2013**

**Location of project**
- Turkey

**Products/system used**
- System for Fire Protection
  - Intergard® 251 @ 50μm
  - Interchar® 2060
  - Interthane® 990SG @ 50μm

- System for Concrete
  - Intergard® 740
  - Interthane® 990SG

**Project owner**
- Government of Turkey

**Applicator**
- Atagem Ltd. Şti.

**ISO12944 environment**
- Fire protection

**Project size**
- Fire protection system:
  - 35,000m² (376,737ft²)
- Concrete system:
  - 15,000m² (161,459ft²)

---

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### Aegir Apartments

**Track record 2013**

<table>
<thead>
<tr>
<th>Location of project</th>
<th>Applicator/Fabricator</th>
<th>ISO12944 environment</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Onslow, Western Australia</td>
<td>C&amp;T Modular Co Ltd.</td>
<td>C3</td>
<td>Intergard® 251: 251 litres (66 gals)</td>
</tr>
<tr>
<td><strong>Products/system used</strong></td>
<td><strong>Architect</strong></td>
<td><strong>Builder</strong></td>
<td><strong>Surface coated</strong></td>
</tr>
<tr>
<td>Intergard® 251, Interchar® 212, Interthane® 990</td>
<td>a+a macliver</td>
<td>Nordic Home</td>
<td>4,000m² (43,056ft²)</td>
</tr>
<tr>
<td><strong>Project owner</strong></td>
<td><strong>Fire Rating</strong></td>
<td><strong>Volume</strong></td>
<td><strong>Surface coated</strong></td>
</tr>
<tr>
<td>Nordic</td>
<td>1 hour</td>
<td>Intergard® 212: 6,000 litres (1,585 gals)</td>
<td>4,000m² (43,056ft²)</td>
</tr>
</tbody>
</table>

A modular construction project due to the isolated location, with fabrication and application in Thailand
SheiKra rollercoaster

Track record 2011

Location of project
Florida, USA

Products/system used
Interfine® 1080, Interzone® 954, Interplus® 356, Interthane® 990

Project owner
Busch Gardens

Applicator
Service Painting Corporation

Surface preparation
SP-3 power tool clean, SP-10 near white blast clean

Total area
25,500m² (275,000ft²)

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EXO C11 Building Facade
Frames and Canopies

Track record 2013

Location of project
Australia

Products/system used
Towers
Interzinc® 52, Interfine® 979

Project owner
Lend Lease

Applicator/Fabricator
Wilhelmsen Manufacturing

ISO12944 environment
C4

Project value
$200,000 worth of paint

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Boggo Road Busway Station
Case history 2013

Focus product: Interfine® 979
Year of project: 2008
Location: Boggo Rd Busway Station, Australia
Products/system used: Interzinc® 52, Interfine 979
Project owner: Translink
Applicator: Tranzblast
Fabricator: Beenleigh Steel
ISO12944 environment: C2
Project size: 6,500m² (69,965ft²)

Colour and gloss still very good after 5 years in service

“AkzoNobel’s 2 coat system of epoxy zinc / polysiloxane is a fast cure system which allows us to turn the steel a lot quicker, giving us increased output through the paint shed.”
Colour and gloss still very good after 5 years in service

“AkzoNobel’s 2 coat system of epoxy zinc / polysiloxane is a fast cure system which allows us to turn the steel a lot quicker, giving us increased output through the paint shed.”
Caroline Bay Aquatic Centre
Track record 2012

Location of project
Timaru, New Zealand

Products/system used
Interzinc® 42, Intercure® 420, Interthane® 990

Project owner
Timaru District Council

Applicator
Abrasive blasting Contractors

Fabricator
John Jones Steel

ISO12944 environment
C3 Medium

Project size
4,000 m² (43,056 ft²)

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Carlaw Park
Student Accommodation

Track record 2013

Location of project
Auckland, New Zealand

Main contractor
Hayden & Rollett Construction

Products/system used
Structural steel
Intergard® 251

Exterior non structural steel
Intergard® 251, Interplus® 1180, Interthane® 870

Applicator
Gritblast, Auckland Steel Blasters, Target Painters

Total area
12,000m² (129,167ft²)

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Tui Fertiliser Warehouse

Track record 2013

Location of project
Bay of Plenty, New Zealand

Main contractor
Strongline Builders

Applicator
Bay Sandblasting

Products/system used
External & internal exposed structural steel
Intergard® 251, Interplus® 1180, Interthane® 870
Internal exposed fertiliser bay
Interzone® 954
Internal intumescent
Intergard® 251, Interchar® 2060, Interthane® 870

Fabricator
Steelworks

Project size
7,000m² (75,347ft²)

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Cardinal Logistics
Track record 2013

Location of project
Auckland, New Zealand

Applicator
Gritblast, Target Painters

Products/system used
Structural steelwork
Intergard® 251

Internal steelwork
Interthane® 870 Metallic, Interchar® 2060, Intersheen® 579

Main contractor
Hayden & Rollett

Project size
11,000m² (118,403ft²)
Auckland Business School
Track record 2009

Location of project
New Zealand

Products/system used
Structural steelwork
Interzinc® 42, Intergard® 251,
Interthane® 870, Interthane® 990 Metallic

Interior intumescent
Interzinc® 42, Interchar® 963,
Interthane® 990

Architect
Francis-Jones Morehen Thorp (FJMT)
and Archimedia

Main contractor
Fletcher Construction

Project size
23,500m² (252,952ft²)

Photography supplied by Jamie Cobeldick, courtesy of Trends Publishing International

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Royal Adelaide Hospital
Track record 2014

Location of project
Australia

Products/system used
Riser frames
Interzinc® 52,
Interchar® 2060 (60 mins fire rating),
Interthane® 870

Project owner
SA Government

Applicator
TruCoat

Fabricator
Manuele Engineering

Architect
Design Inc

Engineers
KBR/Wallbridge and Gilbert

ISO12944 environment
C2 Internal

Project size
2,000m² (21,528ft²)

Total volume
1,600 litres (423 gals)
Jinmao Tower
Track record 1998

Location of project
Shanghai, China

Products/system used
Intumescent Passive Fire Protection

Project owner
China Jin Mao Group Co., Ltd.

Architect
S.O.M.

Fabricator
Nippon Steel Corporation

ISO12944 environment
C3

Surface preparation
Sa2.5

Substrate
Carbon steel (14,000 tonnes)

Total volume
14,200 litres (3,124 gals)
Pak n Save Massey North
Track record 2014

Location of project
Auckland, New Zealand

Products/system used
Area 1 - External Exposed Steelwork
Intergard® 251, Interplus® 1180, Interthane® 990

Area 2 - Internal Exposed Intumescent Steelwork
Intergard® 251, Interchar® 2060, Interthane® 990

Applicator shop applied
Counties Industrial Coatings

Applicator on-site applied
Target Painters Ltd

Surface preparation
Enter prise Steel

Main contractor
Naylor Love Contractors

ISO12944 environment
C1 & C3

Project size
8,500m² (91,493ft²)

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Lafarge C2 - Clinker Silos Refurbishment

Track record 2014

**Location of project**
Richards Bay, South Africa

**Products/system used**
Interseal® 670HS @ 125μm (5 mils)
Interthane® 990 @ 50μm (2 mils)

**Project owner**
Lafarge South Africa Holdings (Pty) Ltd.

**Applicator**
Maxlife Coatings

**ISO12944 environment**
C5I

**Project size**
1,250m² (13,455ft²)
IB-WEB warehouse
Track record 2015

Location of project
Republic of Kazakhstan, Atyrau region, Tengiz field

Products/system used
Structural steel and pipe spools - Interzinc® 52, Intergard® 475HS, Interthane® 990

Project owner
TCO TengizChevOil

Surface preparation
ISO 8504 Sa2½

Total area
5,000m² (53,820ft²)

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AkzoNobel
Arcelor Mital pipe coating

Track record 2015

Location of project
Brazil

Products/system used
Interzone® 485 - 3 x 1,000μm

Project owner
Arcelor Mital Tubarão

Applicator
Matrical

ISO12944 environment
C5-M

Project size
12,000L
Christchurch Bus Interchange
Track record 2015

Location of project
New Zealand

Products/system used
External - Intergard® 251, Interplus® 1180, Interfine® 629
Internal - Intergard 251, Interfine 629

Project owner
Christchurch City Council

Applicator
Primer - John Jones Steel, Topcoats - Jeff Dermotts Ltd

Fabricator
John Jones Steel

ISO12944 environment
C3 Medium

Total area
10,000m² (107,639ft²)
Kaiapoi Library & Museum

Track record 2014

**Location of project**
New Zealand

**Products/system used**
Intergard® 251, Interchar® 2060, Interthane® 870

**Project owner**
Waimakariri District Council

**Applicator**
Primer & Intumescent – Maverick Sandblasting 2012 Ltd
Topcoat – Spencer Painters

**Fabricator**
Chapman Engineering

**ISO12944 environment**
Internal

**Total area**
3,000m² (32,292ft²)

Images courtesy of Waimakariri District Council
Mainfreight Hamilton

Track record 2015

Location of project
Hamilton, New Zealand

Products/system used
Interzinc® 42, Interthane® 990

Project owner
Mainfreight

Applicator
D&H Steel, Hamilton Blast & Paint

Fabricator
D&H Steel, Waikato Steel Fabricators

ISO12944 environment
C1 & C3

Total area
18,000 m² (193,750 ft²)
Lavalin Radio Tower

Track record 2015

Location of project
Republic of Kazakhstan,
Atyrau region, Tengiz field

Products/system used
Interzinc® 22, Interzinc 52,
Intergard® 475HS, Interthane® 990

Project owner
TCO TengizChevrOil

Applicator
Ariadna

Surface preparation
ISO 8504 Sa2½

Total volume
1,471 litres (388 gals)

Total area
614m² (6,609ft²)
Baku Shipyard Project

Track record 2013

Location of project
Turkey

Products/system used
System for structural steel:
- Interzinc® 52 - 60µm (2 mils)
- Intergard® 475HS - 200µm (8 mils)
- Interthane® 990 - 60µm (2 mils)

Project owner
Baku Shipyard LLC

Applicator
KEMIPAZ ENDUSTRI SAN. VE TIC. A.S.

ISO12944 environment
C5M High

Project size
5500 ton

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Awly Building
Track record 2015

<table>
<thead>
<tr>
<th>Location of project</th>
<th>Christchurch, New Zealand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Products/system used</td>
<td></td>
</tr>
<tr>
<td>Area 1</td>
<td>Intergard® 251, Interchar® 1260, Intercryl® 853</td>
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<tr>
<td>Area 2</td>
<td>Intergard 251, Interchar 1190, Intercryl 853</td>
</tr>
<tr>
<td>Waterbased system</td>
<td>Intercryl 525, Interchar 1260, Intercryl 853</td>
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<tr>
<td>Applicator</td>
<td>RPM Ltd</td>
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<tr>
<td>Fabricator</td>
<td>Fabricated in China</td>
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<tr>
<td>ISO12944 environment</td>
<td>C3</td>
</tr>
<tr>
<td>Project size</td>
<td>8,000m² (86,111ft²)</td>
</tr>
</tbody>
</table>

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141 Cambridge Terrace

Track record 2015

Location of project
Christchurch, New Zealand

Products/system used
Area 1 - Intergard® 251, Interchar® 1190, Interthane® 870
Area 2 - Intergard 251, Interchar 2060, Interthane 870

Architect
Jasmax

Main contractor
Southbase Construction Ltd

Applicator
Primer - John Jones Steel Ltd, D&H Steel
Intumescent & Topcoat - Jeff Dermott Ltd

Fabricator
John Jones Steel and D&H Steel

ISO12944 environment
C3

Project size
5,000m² (53,820ft²) of steel
Deloitte Building
Track record 2014

Location of project
Christchurch, New Zealand

Products/system used
Intergard® 251, Interchar® 2060, Interthane® 870

Main contractor
Southbase Construction

Architect
Jasmax

Applicator
Jeff Dermott

Fabricator
John Jones Steel

ISO12944 environment
C3 Medium

Project size
10,000m² (107,639ft²)
Mainfreight Auckland
Track record 2014

Location of project
Auckland, New Zealand

Products/system used
Interzinc® 42, Interthane® 990

Project owner
Steel and Tube

Applicator
AABC

Fabricator
D&H

ISO12944 environment
C4

Project size
15,000m² (161,459ft²)
**142 Kilmore Street**

**Track record 2014**

<table>
<thead>
<tr>
<th>Location of project</th>
<th>New Zealand</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Products/system used</strong></td>
<td>Intergard®, Intercure®, Intercure®, Intercure®, Intertane®, Intertane®, Intermescent - Intergard 251, Interchar® 2060, Interchar 1190, Interthane 870</td>
</tr>
<tr>
<td><strong>Applicator</strong></td>
<td>John Jones Steel / Spencers Painting &amp; Decorating</td>
</tr>
<tr>
<td><strong>Fabricator</strong></td>
<td>John Jones Steel</td>
</tr>
<tr>
<td><strong>ISO12944 environment</strong></td>
<td>C3 Medium</td>
</tr>
<tr>
<td><strong>Project size</strong></td>
<td>5,000 m² (53,820 ft²)</td>
</tr>
</tbody>
</table>

FOR INTERNAL USE ONLY
Rotorua Police Station
Track record 2014

**Location of project**
Rotorua, New Zealand

**Products/system used**
Intergard® 251, Interzinc® 52, Interplus® 1180, Interthane® 990, Interchar® 1190

**Architect**
Leuschke Group Ltd

**Applicator**
Shop Application - Pro Blast Ltd (Tauranga)
On-Site Application - Cantec Services Rotorua Ltd

**Fabricator**
Morgan Steel, Tauranga

**Main Contractor**
Canam Construction

**Project size**
7,000m² (75,347ft²)

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FOR INTERNAL USE ONLY
81 Westney Road
Track record 2015

Location of project
New Zealand

Products/system used
Intergard® 251
Externally exposed steel -
Zinc Metal Spray, Intergard 251,
Interthane® 990

Project owner
James Kirkpatrick

Applicator
Auckland Abrasive Blasting Contractors,
Target Painters

Fabricator
Grayson Engineering

ISO12944 environment
C1 & C4

Project size
22,000m² (236,806ft²)

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Juhi Aviation
Fuel Storage Tanks
Track record 2012

Location of project
Auckland, New Zealand

Products/system used
External - Interzinc® 52, Interplus® 1180, Interthane® 870
Tank Linings - Interfine® 850

Applicator
Counties Industrial Coatings

Fabricator
Page & Macrae Ltd

Main contractor
Downer Construction

Project size
3,000m² (32,292ft²)

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### Hellmann Worldwide

#### Track record 2015

<table>
<thead>
<tr>
<th>Location of project</th>
<th>Auckland, New Zealand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project owner</td>
<td>Goodman</td>
</tr>
<tr>
<td>Fabricator</td>
<td>D&amp;H Steel</td>
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<tr>
<td>Products/system used</td>
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<tr>
<td>External exposed steelwork</td>
<td>Zinc Metal Spray,</td>
</tr>
<tr>
<td></td>
<td>Intergard® 251, Interthane® 990</td>
</tr>
<tr>
<td>Internal exposed steelwork</td>
<td>Intergard 251</td>
</tr>
<tr>
<td>Applicator</td>
<td></td>
</tr>
<tr>
<td>Shop applied</td>
<td>Auckland Abrasive Blasting</td>
</tr>
<tr>
<td></td>
<td>Coatings Ltd</td>
</tr>
<tr>
<td>On-site applied</td>
<td></td>
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<td>ISO12944 environment</td>
<td>C1, C5-I</td>
</tr>
<tr>
<td>Project size</td>
<td>25,000m² (269,098ft²)</td>
</tr>
</tbody>
</table>

![Project Image]

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Baturja Project
Track record 2016

Location of project
Indonesia

Products/system used
Interseal® 1052, Interthane® 990

Fabricator
Jiangsu Yinho steel structure Engineering Co., Ltd.

Project size
10,000L (2,641 gals)