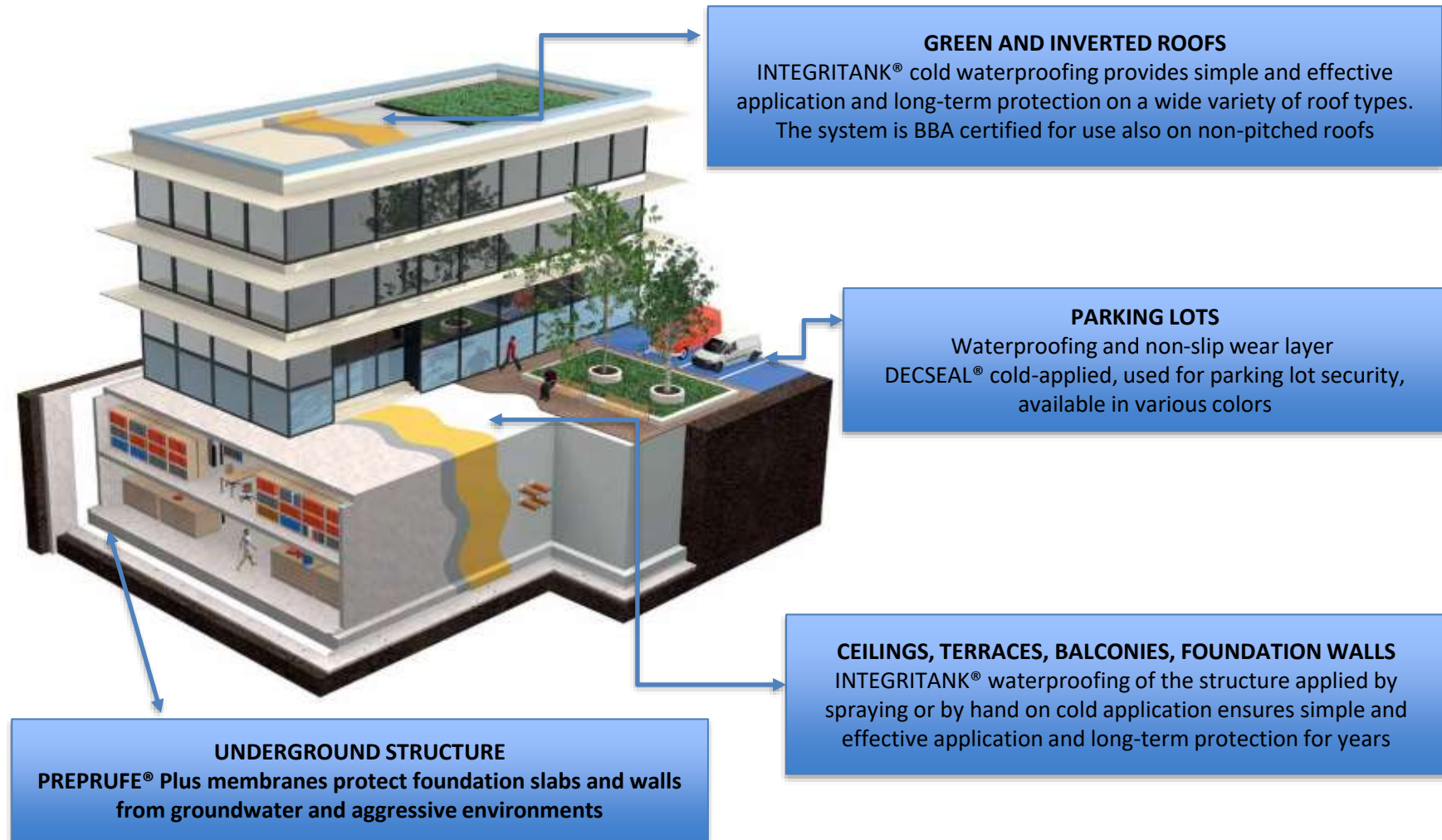


Integritank System®

Advanced waterproofing technology based on ESSELAC's
unique MMA-based resin system

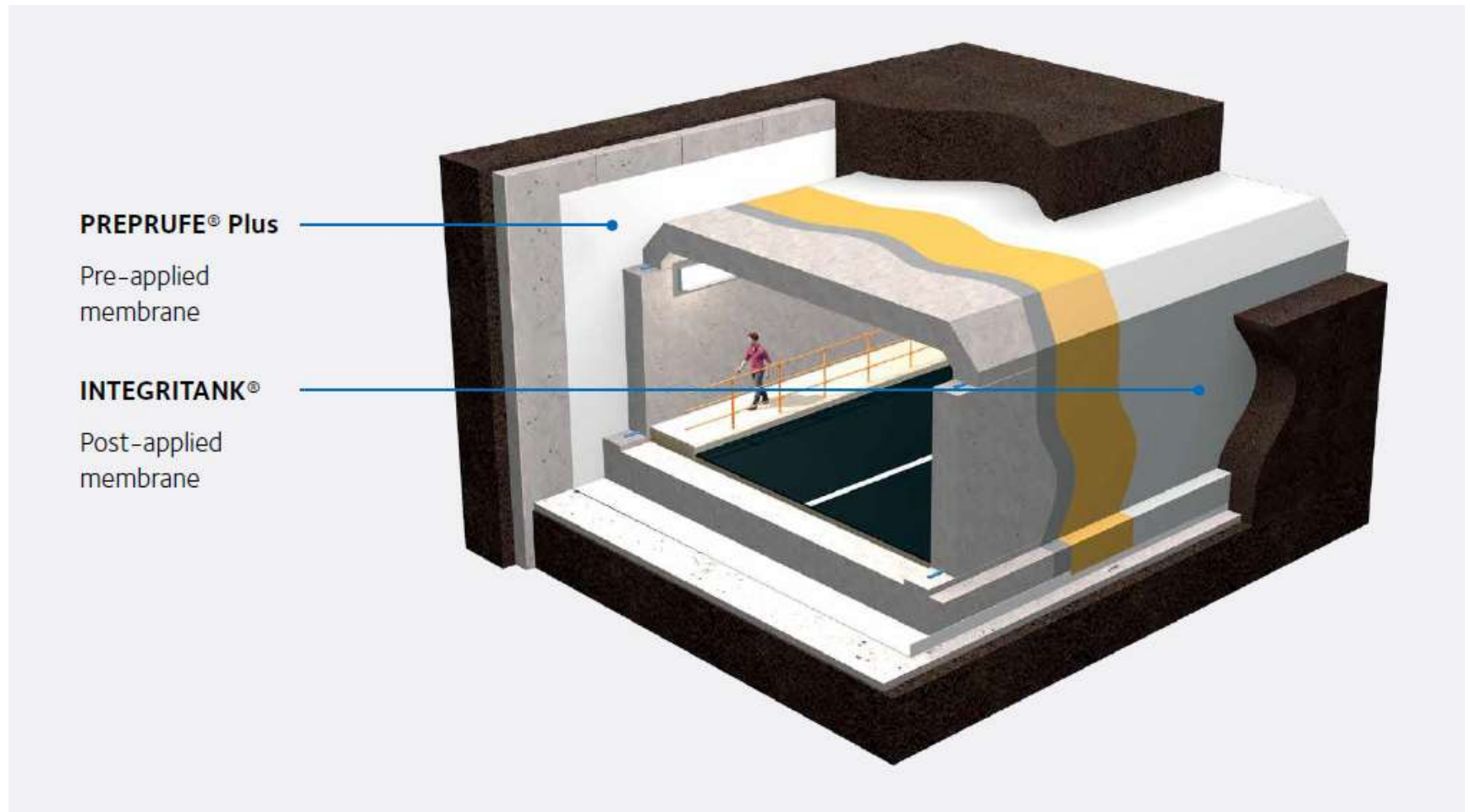


Integritank – Applications – Buildings



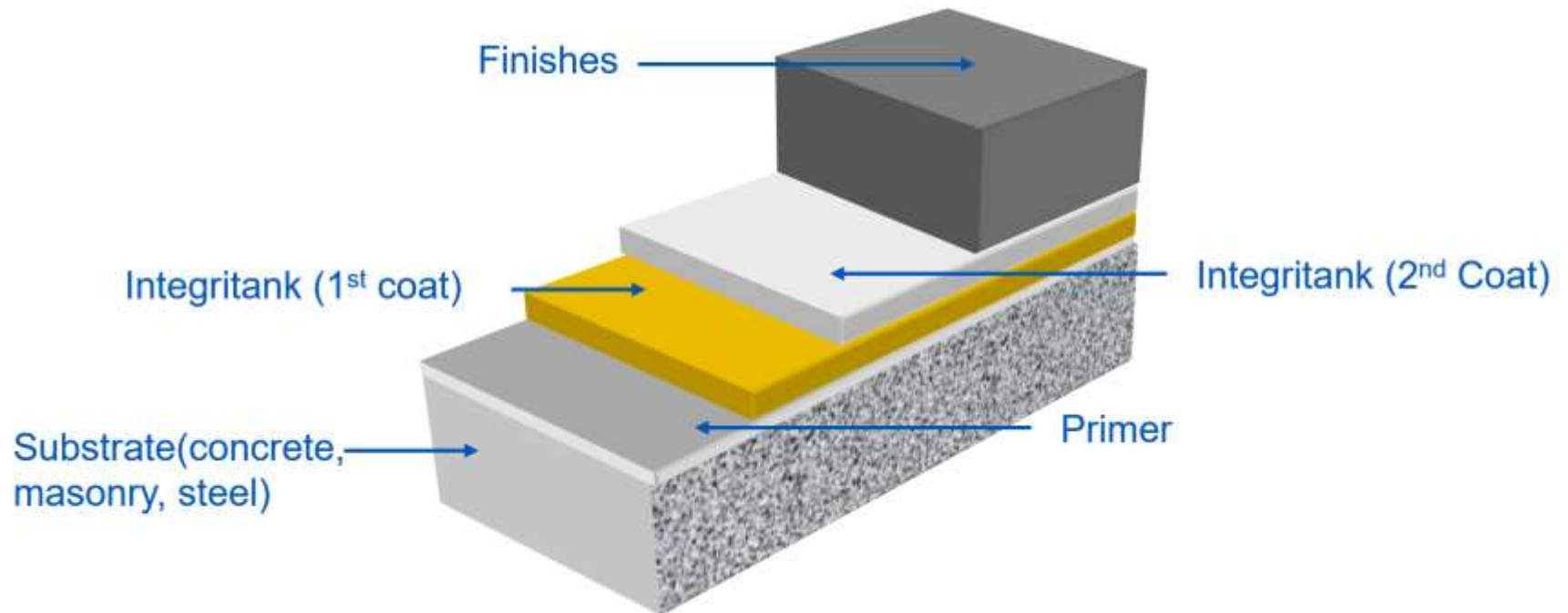
Buildings

Integritank – Infrastructure Applications



Infrastructure

System Layer Layout



Integritank - system elements, example Metro Line II Warsaw



Application Steps

Integritank - sample photos from the project



Many types of construction – one proven waterproofing system

Integritank – ESSELAC resin technology

1. **ESSELAC is a combination of polymer resins with methacrylate monomers (MMA is one of them)**
2. **MMA (methyl methacrylate) makes it possible to convert liquid products into solids. This process is called polymerization**
3. **Both ESSELAC and MMA are components of the Integritank system**
4. **Over 40 years of experience, several unique ESSELAC polymer resins have been developed to adapt products to application requirements**



Unikalna, najwyższej jakości technologia ESSELAC

Integritank – advantages of the system during application

- Fast application (even 1'500-2'000m²/day)
- Can be applied to concrete as early as 7 days after concreting
- Possibility of introducing technological movement or laying subsequent layers as soon as 1 hour after the end of the application
- Fast-setting even at low temperatures (including sub-zero temperatures)
- Applied in two layers of different colors for easy quality control
- Can be used on irregularly shaped surfaces
- No time limits between the application of subsequent layers
- Easy machining of complex workpieces by spraying



Safe, fast and easy to apply Integritank

Integritank – advantages of the system after application

- Seamless, liquid membrane applied without critical overlaps or contacts
- Fully, strongly and permanently bonded to the substrate
- No water migration between the waterproofing and the structure
- Root Resistant
- Resistant to UV rays
- Ensuring durability for the designed service life of the structure up to 120 years
- Excellent, documented references on more than 40 years of construction worldwide
- It has the ability to bridge cracks in concrete
- Chemically resistant



system Integritank

Integritank – excellent crack bridging capability

The system is flexible, it will effectively transfer min. 10x larger scratches than the permissible 0.3mm also at sub-zero temperatures.

System #1: Integritank Waterproofing Membrane

Property	Test Method	Result	Requirement
Extensibility after Heat Aging [Pass/Fail] 3 specimens; 76mm x 102mm x avg. 2mm (dry) Cond. 14d @ 70±2°C; Test Crack Extension @ 12.7mm/min. from 0.00mm to 6.35mm; Visual Inspection in extended position	ASTM C 1522	Pass	No Cracking

Note(s): None.

System #1: Integritank Waterproofing Membrane

Property	Test Method	Result	Requirement
Low Temperature Crack Bridging [Pass/Fail] 5 specimens; 5.08cm x 5.08cm Provided samples "cured"; Cond. 7d @ 70±2°C; Test 50 cycles @ -26°C; Test Rate = 3.2mm/h; Extension = 3.2mm; Visual Inspection in extended position	ASTM C 1305	Pass	No Cracking
After 10cycles Visual Inspection in extended position		Pass	Report
After 50cycles Visual Inspection in extended position		Pass	Report

Note(s): None.



*Elongation of the membrane at substrate crack 6.35mm

Integritank system - continuity of insulation - bridging of cracks - no

Integritank – also available in a hand/manual version

- For small areas
- In restricted areas
- Repair Locations
- No special equipment required
- In places exposed to dirt of finishing elements



Bezpieczny, szybki i łatwy w aplikacji system Integritank

Integritank – examples of selected reference objects

Project Name	Structure	Country	Size	Size Metric	System
City of Dreams (Integritank)	Podium Deck & Planters - Refurb	China	130,000	m2 (Square metres)	Integritank
Tseung Kwan O Depot - MTRC 605 Tanking	Platform - New	China	84,000	m2 (Square metres)	Integritank
Al Zeina - Raha Beach - Podium Deck	Podium Deck - New	United Arab Emirates	80,000	m2 (Square metres)	Integritank
Tai Po Water Treatment Works	Roof - Refurb	China	30,000	m2 (Square metres)	Integritank
Canary Wharf (Integritank)	Roof - New	United Kingdom	27,000	m2 (Square metres)	Integritank
Wynn Palace	Fountain - New	China	24,000	m2 (Square metres)	Integritank
Wynn Palace	Fountain	China	24,000	m2 (Square metres)	Integritank
Great West Quarter	Podium Deck & Balcony - New	United Kingdom	22,000	m2 (Square metres)	Integritank
Blaydon Centre	Roof - New	United Kingdom	21,865	m2 (Square metres)	Integritank
Battersea PS Phase 1	Podium Deck	United Kingdom	20,000	m2 (Square metres)	Integritank
Al Zeina - Raha Beach - Balconies	Balcony - New	United Arab Emirates	20,000	m2 (Square metres)	Integritank
375 Kensington High Street	Podium Deck - New	United Kingdom	18,000	m2 (Square metres)	Integritank
MTRC Yau Tong Station Package 2	Roof - New	China	18,000	m2 (Square metres)	Integritank
MTRC 604 Yau Tong Station	Roof - New	China	17,000	m2 (Square metres)	Integritank
Metro Warszawa II linia - Stacja C04	Deck	Poland	16,000	m2 (Square metres)	Integritank
Weeke Development (Waitrose)	Podium Deck - New	United Kingdom	14,461	m2 (Square metres)	Integritank
Greenwich Reach Podium	Podium Deck - New	United Kingdom	14,000	m2 (Square metres)	Integritank
Barangaroo Headland Park	Basement	Australia	12,562	m2 (Square metres)	Integritank
Aquatic Centre - 2012 Olympic Park (Integritank)	Podium Deck - New	United Kingdom	11,300	m2 (Square metres)	Integritank
Stonegrove Cannons Square	Podium Deck & Balcony - New	United Kingdom	10,000	m2 (Square metres)	Integritank
Evolution - Phase 1	Podium Deck	United Kingdom	10,000	m2 (Square metres)	Integritank
Newhaven Marina - Phase 3	Podium Deck	United Kingdom	10,000	m2 (Square metres)	Integritank
Juraina Shopping Mall	Roof - New	United Arab Emirates	9,453	m2 (Square metres)	Integritank
Al Zeina - Raha Beach - Planters	Planters - New	United Arab Emirates	9,000	m2 (Square metres)	Integritank
Battersea Reach (Integritank)	Podium Deck - New	United Kingdom	8,750	m2 (Square metres)	Integritank
CBXIII Milton Keynes	Podium Deck - New	United Kingdom	8,000	m2 (Square metres)	Integritank
Al Zeina - Raha Beach - Inverted Roofs	Inverted Roof - New	United Arab Emirates	8,000	m2 (Square metres)	Integritank
East Side Plaza, Gunwharf Quay (Integritank)	Podium Deck - New	United Kingdom	7,000	m2 (Square metres)	Integritank
Haggerston West Kingsland Estate	Podium Deck & Balcony - New	United Kingdom	7,000	m2 (Square metres)	Integritank
Barangaroo Headland Park	Green Roof - New	Australia	7,000	m2 (Square metres)	Integritank
Lakeshore (Integritank)	Podium Deck - New	United Kingdom	6,700	m2 (Square metres)	Integritank
Canada Water (Gardens)	Podium Deck	United Kingdom	6,600	m2 (Square metres)	Integritank
Mirgab Shopping Mall	Roof - New	United Arab Emirates	6,578	m2 (Square metres)	Integritank
Oyster Wharf	Podium Deck & Balcony - Refurb	United Kingdom	6,341	m2 (Square metres)	Integritank
Trinity Quarter	Podium Deck - New	United Kingdom	6,250	m2 (Square metres)	Integritank
Sjødædet Park	Podium Deck - New	Norway	6,000	m2 (Square metres)	Integritank
Reliance, GHQ, Mumbai	Roof	India	6,000	m2 (Square metres)	Integritank
Battersea Reach Block B (Integritank)	Podium Deck - New	United Kingdom	5,910	m2 (Square metres)	Integritank
Gun Wharf Quay (Canalside Apartments)	Roof - New	United Kingdom	5,550	m2 (Square metres)	Integritank

Excerpt from the project list...

Integritank – Anglia, Vauxhall St Georges Wharf



Examples of reference objects

Integritank – Poland, Metro Line II, Warsaw stations: C04, C05, C19



Przykłady obiektów referencyjnych

Integritank – Poland, Metro Line II, Warsaw stations: C01



Date of the picture 21/03/2024. Station under construction currently.

Integritank – Anglia, Green Park Village, Berkshire



Examples of reference objects

Integritank – Anglia, Manchester Block I Middlewood



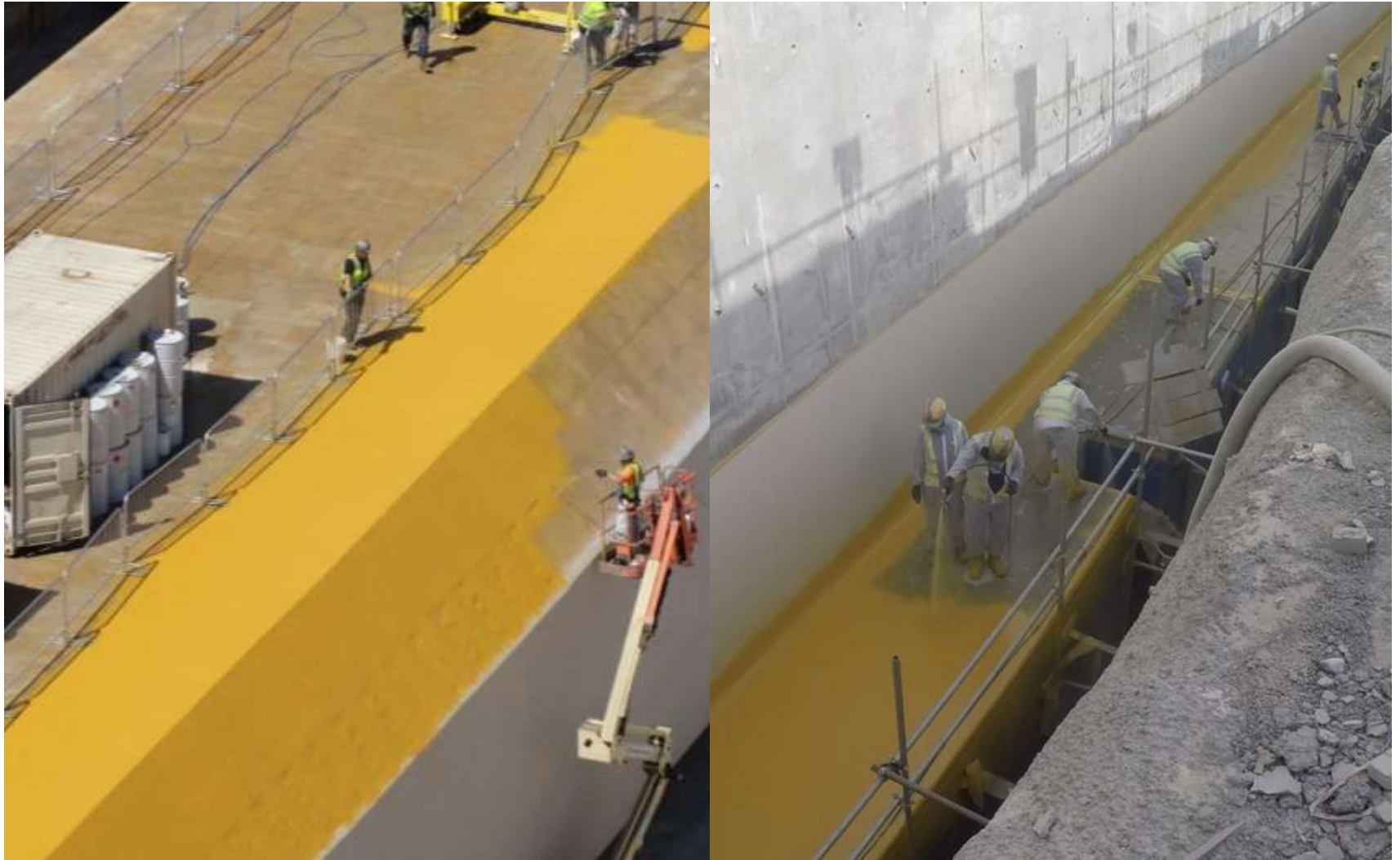
Examples of reference objects

Integritank – UAE, ABU DHABI – Underwater Road Tunnel for Yas Island



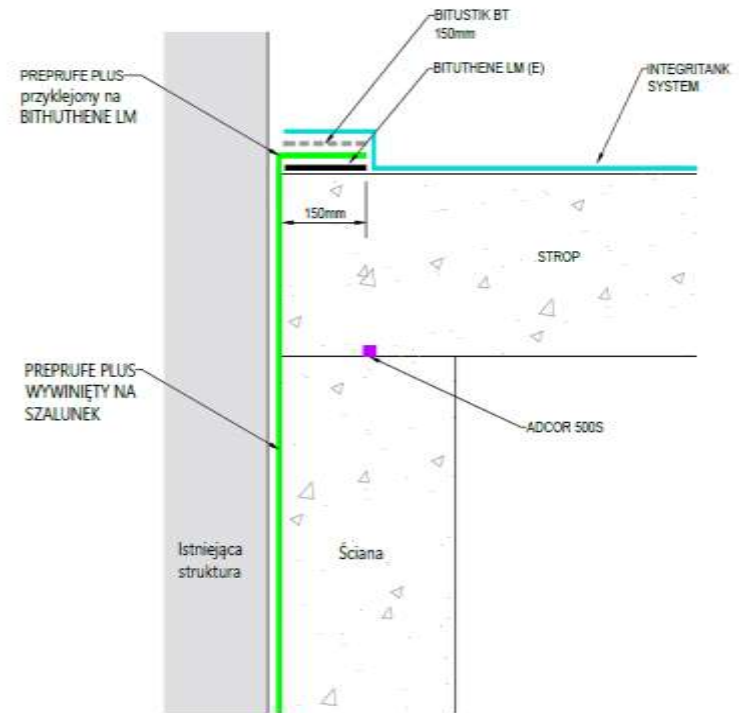
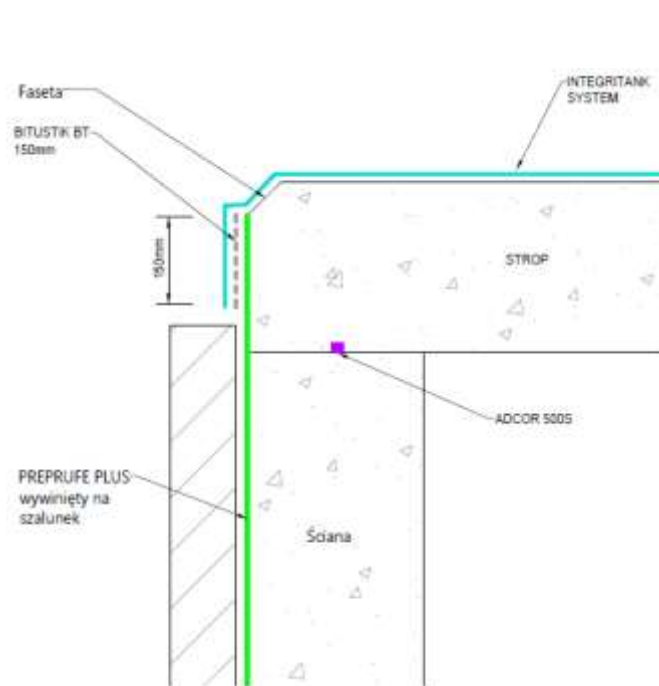
Examples of reference objects

Integritank – Doha Metro Red Line South

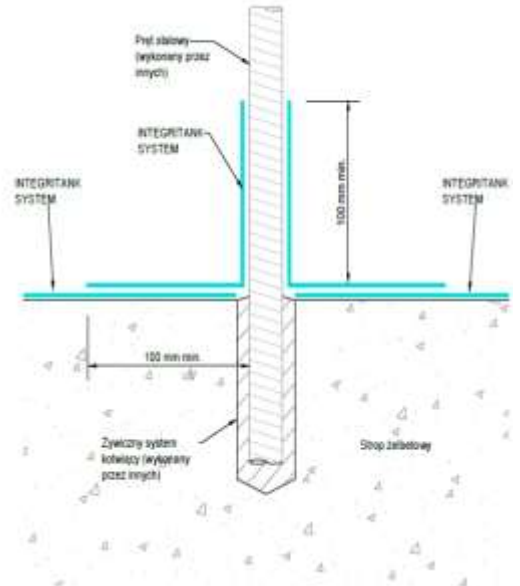
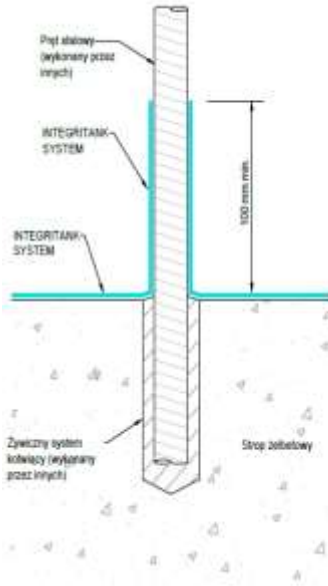
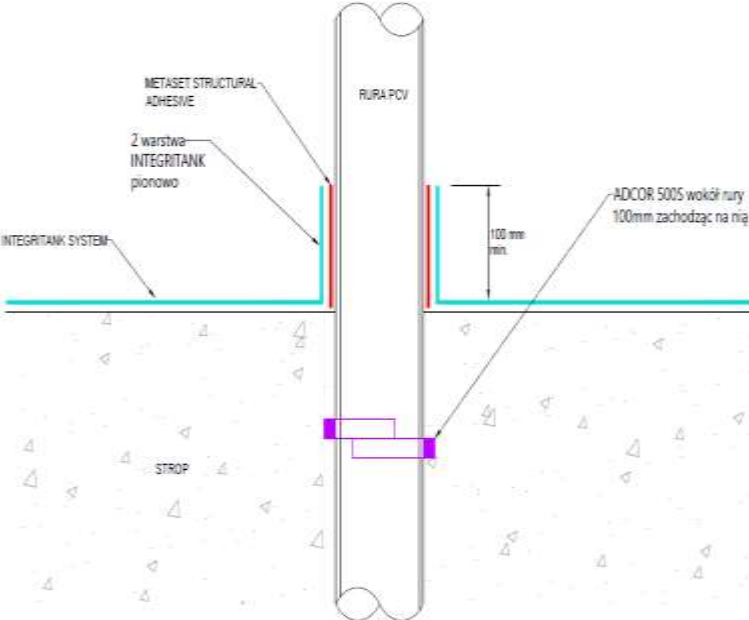


Examples of reference objects

Integritank – details of the walls – roof slab interface

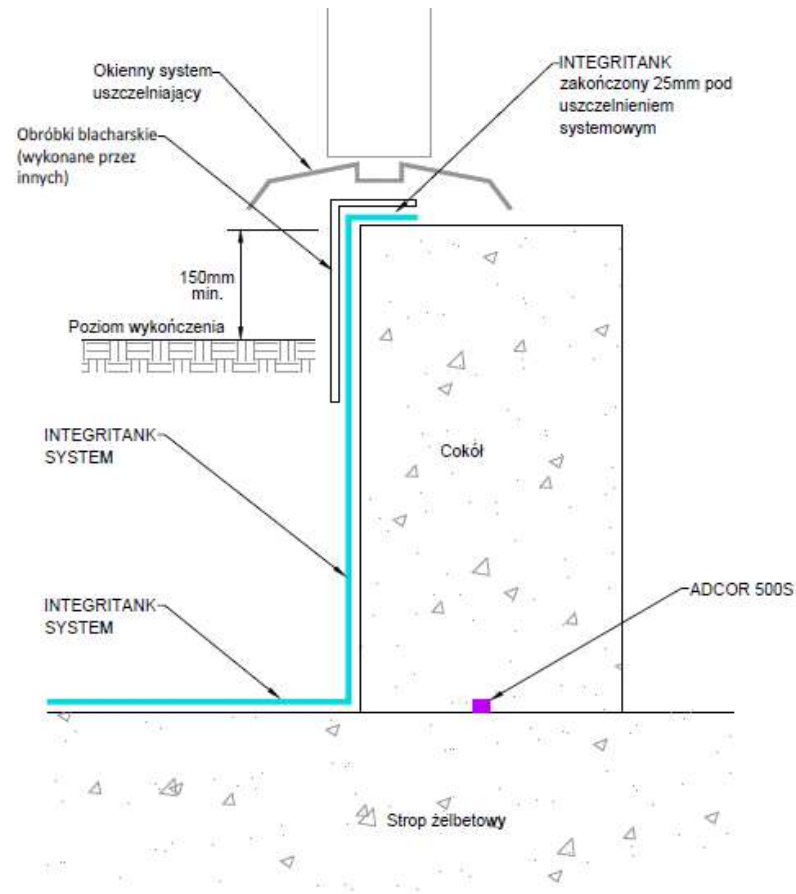


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Safe, fast and easy to apply Integritank

Integritank – detail of the insulation termination at the window/door



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Questions?

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