



**SAFESMART**  
**ACCESS**

*Reaching new heights*

**TEMPORARY ACCESS SOLUTIONS  
FOR TUNNELLING PROJECTS**



1-866-635-8818 [www.safesmartaccess.ca](http://www.safesmartaccess.ca)

## SAFESMART ACCESS IS ONE OF THE LARGEST HEIGHT ACCESS BUSINESSES WITH OPERATIONS IN AUSTRALIA, NEW ZEALAND, AMERICAS & EUROPE.

Since 2007, SafeSmart Access has been providing height access solutions globally.

With a world-wide distribution network, we cater for the construction, defence, mining, aviation, transport and pipeline industries around the globe.

We have substantial experience with tunnelling mega-projects all over the globe including Europe, UK, Americas & APAC. This includes experience with tunnel boring machines, drill and blast tunnel excavation, micro-tunnelling and refurbishment of tunnels.

Utilising our expertise, we are able to provide concept designs, methodologies and applications to all facets of underground construction and engineering.

### THE SAFESMART SECRET

*We have the resources and support staff to ensure we are at the forefront of every development in the demanding world of height access.*

From our in-house design team, to our production and independent certification procedures, our can-do attitude allows us to work closely with you to solve your needs and streamline your own workplace efficiency.



### GLOSSARY OF TERMS

HASHTAG	PRODUCT CATEGORY
#ADP	ADAPTAPANEL
#AJS	ADJUSTASTAIRS
#APL	ALUMINIUM PLATFORM LADDER
#BDG	BOLT DOWN GUARDAIL POST
#BLX	CONQUIP BULK X SYSTEM
#CMB	CONQUIP CIRCULAR MUCK BIN
#CMP	CANTILEVER MAINTENANCE PLATFORM
#CUS	CUSTOM PLATFORM
#HAG	HEIGHT ADJUSTABLE HOOP GUARDRAIL PLATFORM
#HUS	HUSHTEC ACOUSTIC ATTENUATION
#KKZ	KING KLAMPZ
#MSO	MODULAR STEPOVER
#PSB	PORTABLE SITE BRIDGE
#PSF	PROSCAF
#PST	PROFESSIONAL SERIES SCAFFOLD TOWER
#SLR	SAFELOADER
#SMB	SMARTBRIDGE
#SMP	SUPER MAINTENANCE PLATFORM
#SSP	SMARTSPAN BRIDGES & WALKWAYS
#STS	SMARTSTAIRS
#TEP	TRUCK EDGE PROTECTION PANEL



ADAPTAPANEL #ADP

ADAPTAPANEL #ADP

ADAPTAPANEL #ADP

PROFESSIONAL SERIES SCAFFOLD TOWER #PST

PLATFORM LADDER #APL

HUSHTEC ACOUSTIC CONTROL ROCKBREAKER ATTACHMENT #HUS



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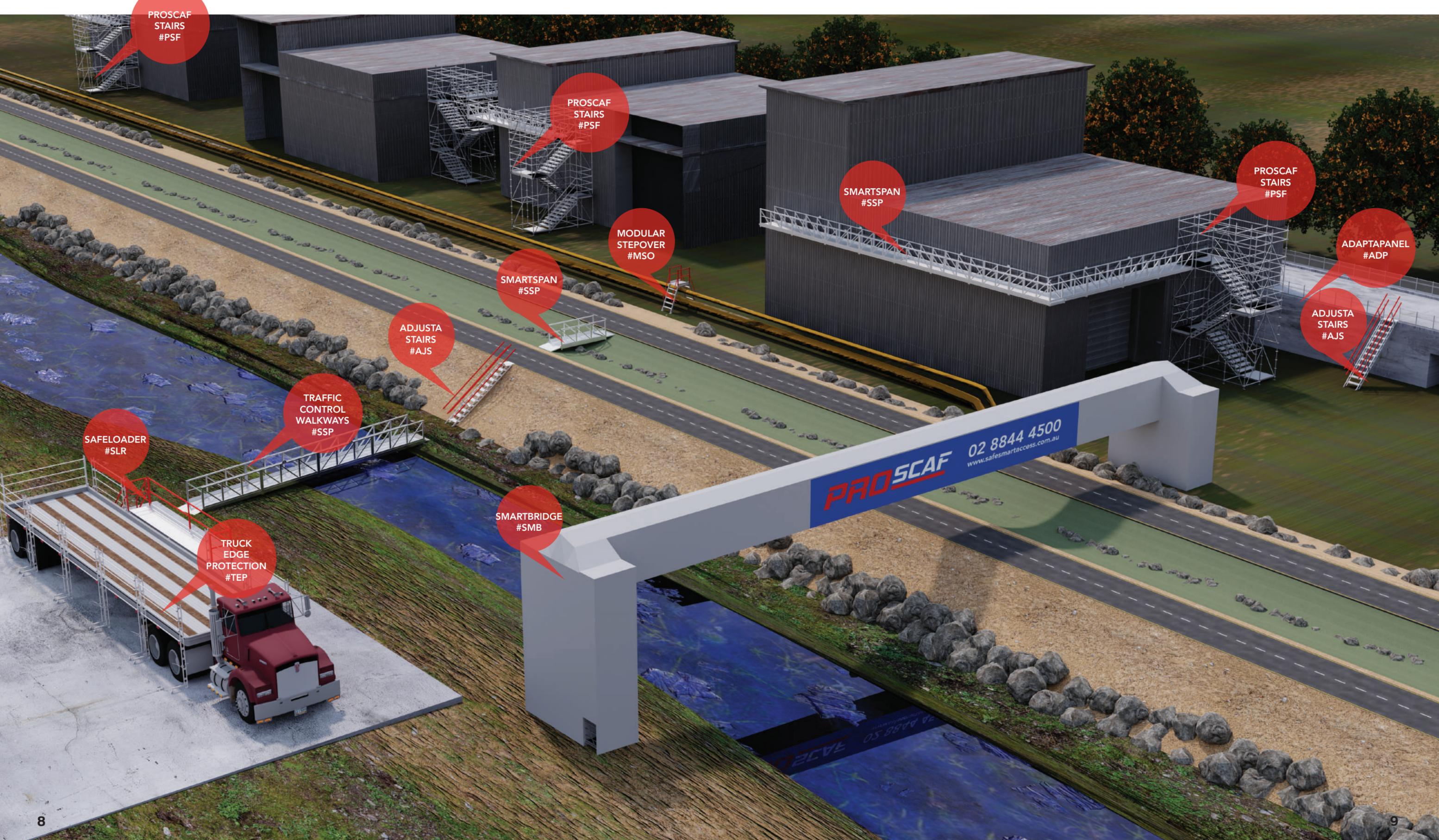
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PROSCAF  
HOARDING  
SCAFFOLD  
#PSF

# STAGE 2: SITE SETUP



# STAGE 2: SITE SETUP



PROSCAF STAIRS #PSF

PROSCAF STAIRS #PSF

SMARTSPAN #SSP

PROSCAF STAIRS #PSF

ADAPTAPANEL #ADP

MODULAR STEPOVER #MSO

SMARTSPAN #SSP

ADJUSTA STAIRS #AJS

ADJUSTA STAIRS #AJS

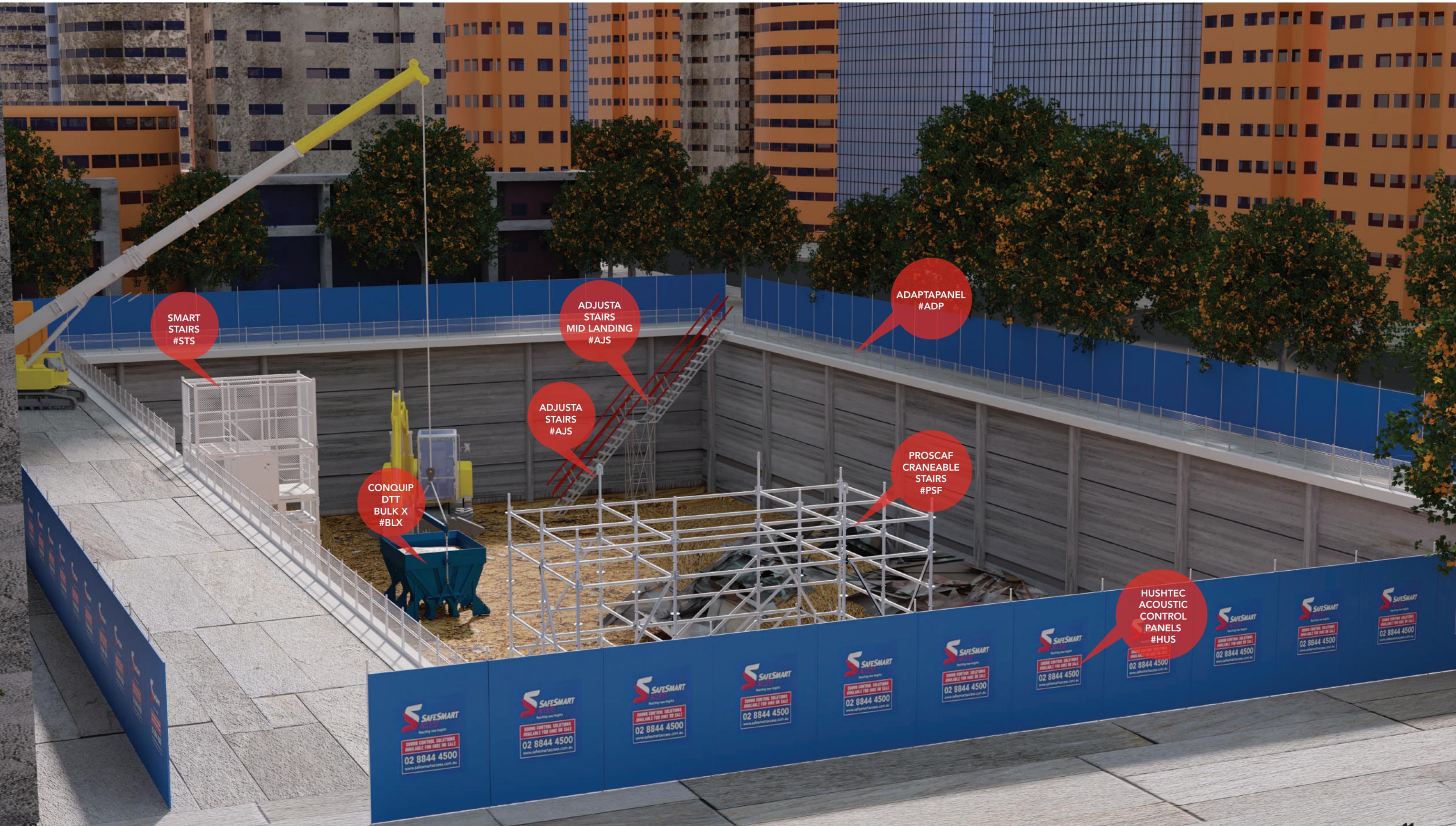
TRAFFIC CONTROL WALKWAYS #SSP

SAFELOADER #SLR

SMARTBRIDGE #SMB

TRUCK EDGE PROTECTION #TEP

**PROSCAF** 02 8844 4500  
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SMART STAIRS #STS

ADJUSTA STAIRS MID LANDING #AJS

ADAPTAPANEL #ADP

ADJUSTA STAIRS #AJS

CONQUIP DTT BULK X #BLX

PROSCAF CRANEABLE STAIRS #PSF

HUSHTEC ACOUSTIC CONTROL PANELS #HUS

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# STAGE 3: EXCAVATION



# STAGE 3: EXCAVATION



HUSHTEC  
ACOUSTIC  
CONTROL  
PANELS  
#HUS

ADAPTAPANEL  
#ADP

SMART  
STAIRS  
#STS

PROFESSIONAL  
SERIES  
SCAFFOLD  
TOWER  
#PST

CONQUIP  
DTT  
BULK X  
#BLX

PROSCAF  
CRANEABLE  
STAIRS  
#PSF

SMARTSPAN  
#SSP

ADJUSTA  
STAIRS  
#AJS

ADJUSTA  
STAIRS  
MID LANDING  
#AJS



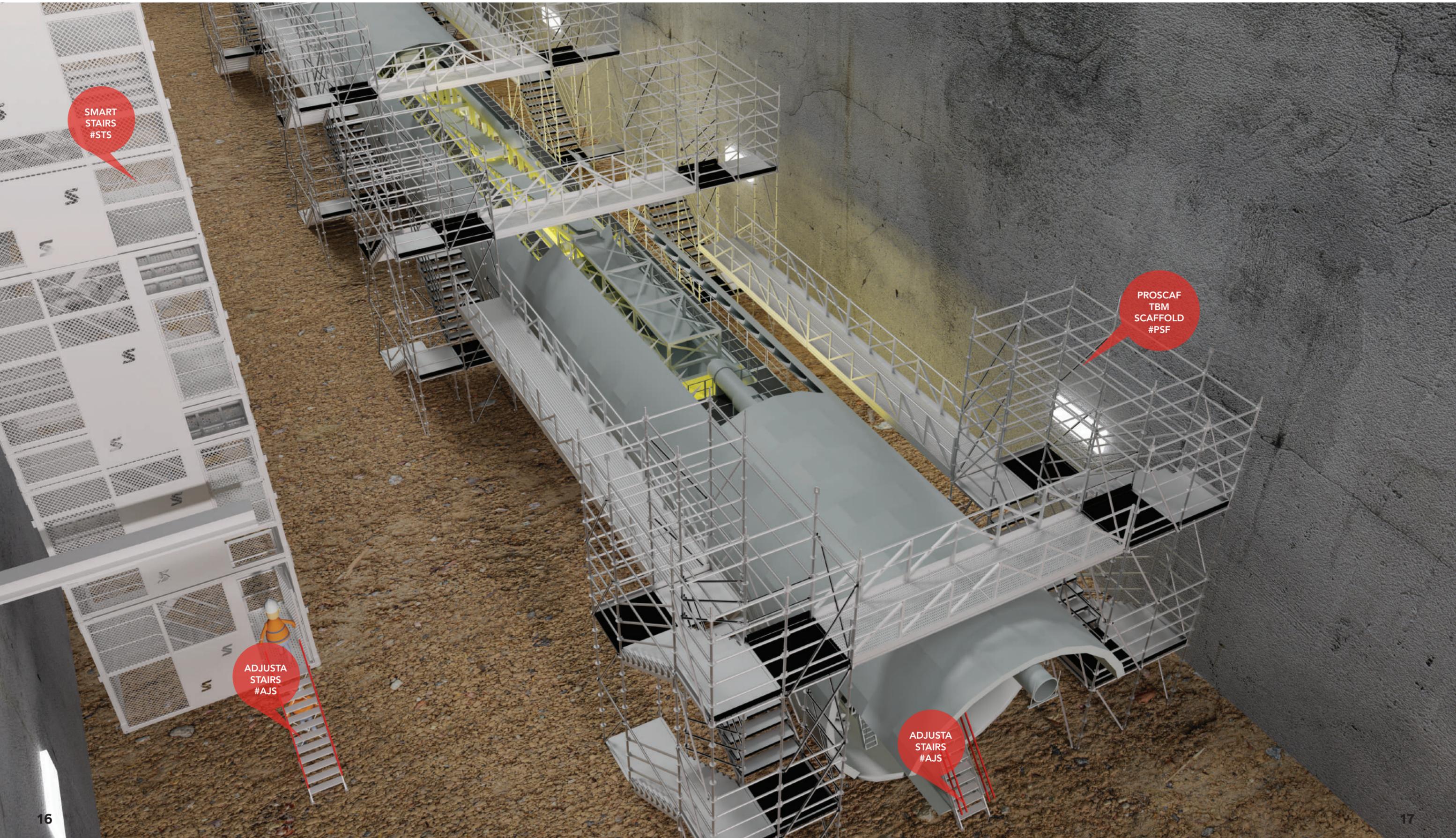
SMART  
STAIRS  
#STS

ADJUSTA  
STAIRS  
#AJS

PROSCAF  
TBM  
SCAFFOLD  
#PSF

ADJUSTA  
STAIRS  
#AJS

PROSCAF  
TBM  
SCAFFOLD  
#PSF



SMART  
STAIRS  
#STS

PROSCAF  
TBM  
SCAFFOLD  
#PSF

ADJUSTA  
STAIRS  
#AJS

ADJUSTA  
STAIRS  
#AJS



SMARTSPAN  
#SSP

KING  
KLAMPZ  
#KKZ

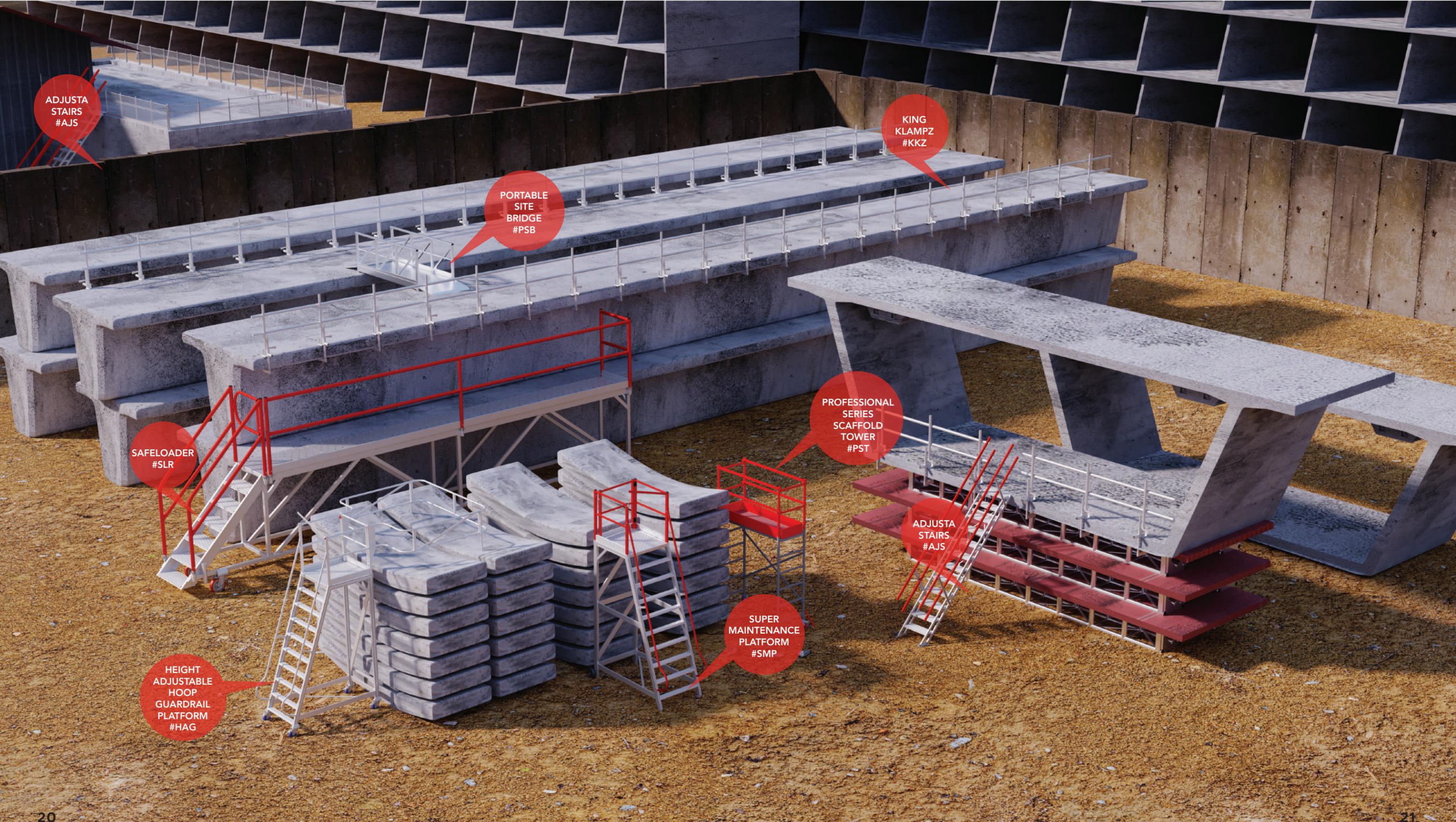
SAFELoader  
#SLR

HEIGHT  
ADJUSTABLE  
HOOP  
GUARDRAIL  
PLATFORM  
#HAG

PROFESSIONAL  
SERIES  
SCAFFOLD  
TOWER  
#PST

ADJUSTA  
STAIRS  
#AJS

SUPER  
MAINTENANCE  
PLATFORM  
#SMP



ADJUSTA STAIRS #AJS

PORTABLE SITE BRIDGE #PSB

KING KLAMPZ #KKZ

SAFELoader #SLR

PROFESSIONAL SERIES SCAFFOLD TOWER #PST

ADJUSTA STAIRS #AJS

SUPER MAINTENANCE PLATFORM #SMP

HEIGHT ADJUSTABLE HOOP GUARDRAIL PLATFORM #HAG



CONTAINER  
ACCESS  
PLATFORM

SMART  
STAIRS  
#STS

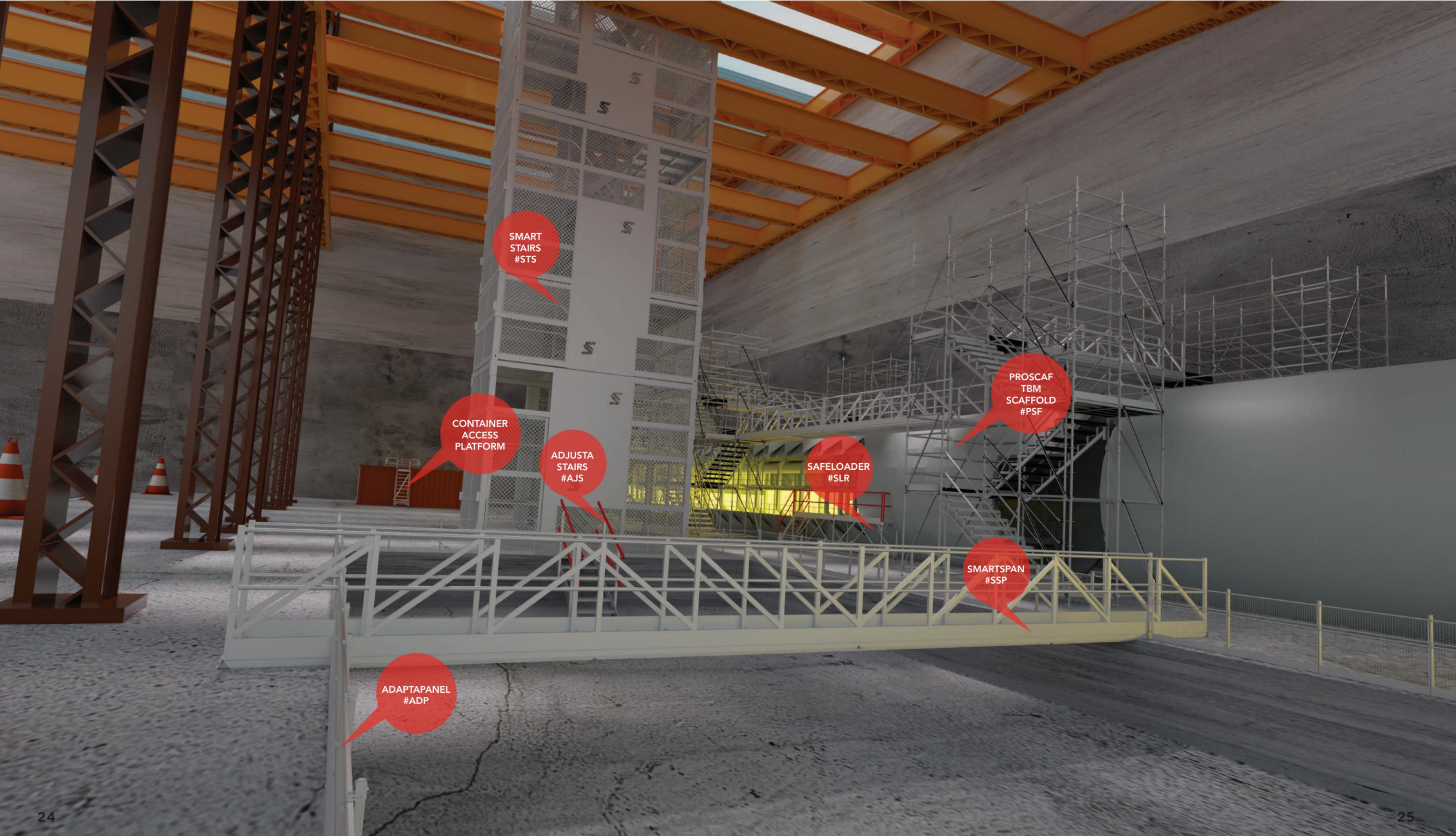
SAFELOADER  
#SLR

ADJUSTA  
STAIRS  
#AJS

ADAPTAPANEL  
#ADP

PROSCAF  
TBM  
SCAFFOLD  
#PSF

SMARTSPAN  
#SSP



SMART STAIRS #STS

CONTAINER ACCESS PLATFORM

ADJUSTA STAIRS #AJS

SAFELOADER #SLR

PROSCAF TBM SCAFFOLD #PSF

SMARTSPAN #SSP

ADAPTAPANEL #ADP



PIPE ACCESS LADDER

SURVEY ACCESS PLATFORM

CANTILEVER PLATFORM

CANTILEVER BRACKET INSTALLATION PLATFORM

TUNNEL HOP UP WALKWAY

ADJUSTA STAIRS #AJS

MOBILE TUNNEL BRIDGE



CANTILEVER  
PLATFORM

CANTILEVER  
BRACKET  
INSTALLATION  
PLATFORM

TUNNEL  
HOP UP  
WALKWAY



CONQUIP  
CIRCULAR  
MUCK BIN  
#CMB

BOLT DOWN  
GUARDRAIL  
POST  
#BDG

CANTILEVER  
PLATFORM

STEPOVER  
PLATFORM  
#MSO

ADJUSTA  
STAIRS  
#AJS



# PRODUCT LIST



## PRODUCT LIST

### MOBILE WORK PLATFORM

#CMP	210240	Cantilever Maintenance Platform 565mm - 2 Step
#CMP	210241	Cantilever Maintenance Platform 850mm - 3 Step
#CMP	210242	Cantilever Maintenance Platform 1130mm - 4 Step
#CMP	210243	Cantilever Maintenance Platform 1400mm - 5 Step
#CMP	210244	Cantilever Maintenance Platform 1700mm - 6 Step
#CMP	210245	Cantilever Maintenance Platform 1970mm - 7 Step
#CMP	210246	Cantilever Maintenance Platform 2250mm - 8 Step
#CMP	210247	Cantilever Maintenance Platform 2540mm - 9 Step
#CMP	210248	Cantilever Maintenance Platform 2828mm - 10 Step
#CMP	210249	Cantilever Maintenance Platform 3100mm - 11 Step
#SLR	210808	SafeLoader - 0.7mW x 1.4mH x 2.0mL Platform, Stairs one end
#SLR	210784	SafeLoader - 0.7mW x 1.4mH x 4.0mL Platform, Stairs one end
#SLR	210785	SafeLoader - 0.7mW x 1.4mH x 6.0mL Platform, Stairs one end
#SMP	210202	SafeLoader - Lanyard Line Kit to suit 6m Platform
#SMP	210183	Super Maintenance Platform 565mm - 2 Step
#SMP	210184	Super Maintenance Platform 850mm - 3 Step
#SMP	210185	Super Maintenance Platform 1130mm - 4 Step
#SMP	210186	Super Maintenance Platform 1400mm - 5 Step
#SMP	210187	Super Maintenance Platform 1700mm - 6 Step
#SMP	210188	Super Maintenance Platform 1970mm - 7 Step
#SMP	210189	Super Maintenance Platform 2250mm - 8 Step
#SMP	210190	Super Maintenance Platform 2540mm - 9 Step
#SMP	210191	Super Maintenance Platform 2828mm - 10 Step
#SMP	210192	Super Maintenance Platform 3100mm - 11 Step
#SMP	210770	Super Maintenance Platform Batwing Gate - 2-6 Step
#SMP	210771	Super Maintenance Platform Batwing Gate - 7-11 Step
#SMP	210834	Super Maintenance Platform Fold-out Protection Wings 1.2mL - 2-6 Step
#SMP	210849	Super Maintenance Platform Fold-out Protection Wings 1.0mL - 7-11 Step

### LADDERS

#APL	210300	Aluminium Trade Series Platform Ladder - 2 Step (0.6m)
#APL	210301	Aluminium Trade Series Platform Ladder - 3 Step (0.9m)
#APL	210302	Aluminium Trade Series Platform Ladder - 4 Step (1.2m)
#APL	210303	Aluminium Trade Series Platform Ladder - 5 Step (1.5m)
#APL	210304	Aluminium Trade Series Platform Ladder - 6 Step (1.8m)
#APL	210181	Aluminium Trade Series Platform Ladder - 7 Step (2.1m)
#APL	210299	Aluminium Trade Series Platform Ladder - 8 Step (2.4m)
#APL	210182	Aluminium Trade Series Platform Ladder - 9 Step (2.7m)
#APL	210305	Aluminium Trade Series Platform Ladder - Spring Loaded Castor
#APL	210335	Aluminium Trade Series Platform Ladder - Full Surround Safety Rail
#APL	210298	Aluminium Trade Series Platform Ladder - Clip-on bucket

RAMPS & WALKWAYS		
#MSO	210731	Modular Stepover - 2 Step Vertical Ladder - Platform Height 560mm
#MSO	210732	Modular Stepover - 3 Step Vertical Ladder - Platform Height 850mm
#MSO	210733	Modular Stepover - 4 Step Vertical Ladder - Platform Height 1120mm
#MSO	210734	Modular Stepover - 5 Step Vertical Ladder - Platform Height 1400mm
#MSO	210735	Modular Stepover - 6 Step Vertical Ladder - Platform Height 1700mm
#MSO	210700	Modular Stepover - 2 Step 70° ladder and handrails - Platform Height 560mm
#MSO	210701	Modular Stepover - 3 Step 70° ladder and handrails - Platform Height 850mm
#MSO	210702	Modular Stepover - 4 Step 70° ladder and handrails - Platform Height 1120mm
#MSO	210703	Modular Stepover - 5 Step 70° ladder and handrails - Platform Height 1400mm
#MSO	210704	Modular Stepover - 6 Step 70° ladder and handrails - Platform Height 1700mm
#MSO	210736	Modular Stepover - 2 Step 45° stair and handrails - Platform Height 373mm
#MSO	210737	Modular Stepover - 3 Step 45° stair and handrails - Platform Height 560mm
#MSO	210738	Modular Stepover - 4 Step 45° stair and handrails - Platform Height 850mm
#MSO	210739	Modular Stepover - 5 Step 45° stair and handrails - Platform Height 1120mm
#MSO	210740	Modular Stepover - 6 Step 45° stair and handrails - Platform Height 1266mm
#MSO	210741	Modular Stepover - 7 Step 45° stair and handrails - Platform Height 1400mm
#MSO	210742	Modular Stepover - 8 Step 45° stair and handrails - Platform Height 1692mm
#MSO	210143	Modular Stepover - Platform Bridge 0.6m(L) x 0.8m(W)
#MSO	210706	Modular Stepover - Platform Bridge 1.0m(L) x 0.8m(W)
#MSO	210707	Modular Stepover - Platform Bridge 1.5m(L) x 0.8m(W)
#MSO	210708	Modular Stepover - Platform Bridge 2.0m(L) x 0.8m(W)
#MSO	210786	Modular Stepover - Platform Bridge 3.0m(L) x 0.8m(W)
#MSO	210140	Modular Stepover - Platform Bridge 4.0m(L) x 0.8m(W)
#MSO	210141	Modular Stepover - Platform Bridge 6.0m(L) x 0.8m(W)
#MSO	210142	Modular Stepover - Modular Short Leg.
#MSO	210705	Modular Stepover - Permanent Base Plate Set. Set of two.
#MSO	210709	Modular Stepover - Permanent Base Plate set to suit Vertical Ladder. Set of two.
#PSB	210690	Portable Access Bridge - 1.2mW x 3.0mL. Includes Hinged Flap on both ends and Handrails and Kickboards both sides.
#PSB	210691	Portable Access Bridge - 1.2mW x 4.2mL. Includes Hinged Flap on both ends and Handrails and Kickboards both sides.
#SSP	210129	SmartSpan Modular Bridge - Crane Lifting Lug
#SSP	210130	SmartSpan Modular Bridge - Tower Crane Access Adapter Frame
#SSP	210131	SmartSpan Modular Bridge - Bolt on extra Height Guardrail Frame, 1mL Pair
#SSP	210132	SmartSpan Modular Bridge - Bolt on extra Height Guardrail Frame, 2mL Pair
#SSP	210133	SmartSpan Modular Bridge - Bolt on extra Height Guardrail Frame, 3mL Pair
#SSP	210134	SmartSpan Modular Bridge - Anchor Bracket
#SSP	210135	SmartSpan Modular Bridge - Hinging End Ramp 0.7mL x 1.2mW
#SSP	210136	SmartSpan Modular Bridge - 1m module x 1.2mW, 2.5kPa
#SSP	210145	SmartSpan Modular Bridge - 2m module x 1.2mW, 2.5kPa
#SSP	210137	SmartSpan Modular Bridge - 3m module x 1.2mW, 2.5kPa
#SSP	210138	SmartSpan Modular Bridge - Bolt On 200mm swivel/braked castors, pair of RH & LH pair
#SSP	210139	SmartSpan Modular Bridge - Bolt On Height Adjustment Pack Pair

STAIRS		
#AJS	210818	AdjustaStairs 3 step - 600mmW aluminium to suit height range 0.49mH - 0.67mH
#AJS	210813	AdjustaStairs 6 step - 600mmW aluminium to suit height range 0.97mH - 1.33mH
#AJS	210814	AdjustaStairs 9 step - 600mmW aluminium to suit height range 1.43mH - 2.0mH
#AJS	210815	AdjustaStairs 12 step - 600mmW aluminium to suit height range 1.91mH - 2.67mH
#AJS	210816	AdjustaStairs 15 step - 600mmW aluminium with support truss under stringers to suit height range 2.39mH - 3.33mH
#AJS	210817	AdjustaStairs 18 step - 600mmW aluminium with support truss under stringers to suit height range 2.87mH - 4.0mH
#AJS	210821	AdjustaStairs 3 step - 1200mmW aluminium to suit height range 0.49mH - 0.67mH
#AJS	210822	AdjustaStairs 6 step - 1200mmW aluminium to suit height range 0.97mH - 1.33mH
#AJS	210823	AdjustaStairs 9 Step - 1200mmW aluminium to suit height range 1.43mH - 2.0mH
#AJS	210824	AdjustaStairs 12 Step - 1200mmW aluminium with support truss under stringers to suit height range 1.91mH - 2.67mH
#AJS	210825	AdjustaStairs 15 Step - 1200mmW aluminium with support truss under stringers to suit height range 2.39mH - 3.33mH
#AJS	210826	AdjustaStairs 18 Step - 1200mmW aluminium with support truss under stringers to suit height range 2.87mH - 4.0mH
#STS	210865	SmartStairs Standard Box 2050mmW x 3785mmL x 3000mmH. Tread width 1000mmW, landing depth 1200mmD
#STS	210866	SmartStairs Entry Box 2050mmW x 3785mmL x 3000mmH with Landing
#STS	210867	SmartStairs Exit Box, 2050mmW x 3785mmL x 3000mmH. Includes Exit Gates
#STS	210868	SmartStairs Crane Lifting Device

EDGE PROTECTION		
#TEP	210273	4mL Truck Edge Protection Panel
#BDG	290686	Bolt Down Guardrail Post - 1.2mH
#KKZ	210272	Multipurpose King Klampz
#ADP	210842	AdaptaPanel Edge Protection Post - 1.0mH
#ADP	210843	AdaptaPanel Edge Protection Post - 1.5mH
#ADP	210844	AdaptaPanel Mesh Fence Panel - 0.5mH x 1.0mL
#ADP	210845	AdaptaPanel Mesh Fence Panel - 0.5mH x 2.0mL
#ADP	210846	AdaptaPanel Mesh Fence Panel - 1.0mH x 1.0mL
#ADP	210847	AdaptaPanel Mesh Fence Panel - 1.0mH x 2.0mL
#ADP	210875	AdaptaPanel Edge Protection Post - 2.0mH
#ADP	210876	AdaptaPanel Edge Protection Post - 3.0mH

PROSCAF	
#PSF	Proscaf Hoarding Scaffold
#PSF	Proscaf TBM Scaffold
#PSF	Proscaf Stairs
#PSF	Proscaf Cranebale Stairs

### SCAFFOLD TOWER

#PST	Heavy Duty Professional Series Scaffold Tower 0.8m
#PST	Heavy Duty Professional Series Scaffold Tower 1.37m

### APPLICATION SPECIFIC PRODUCTS

Sill Access Platform
Cantilever Bracket Installation Platform
SmartBridge
Tunnel Hop-Up Walkway
Pipe Access Ladder
Mobile Tunnel Bridge
Height Adjustable Hoop Guardrail Platform
Container Access Platform

### HUSHTEC ACOUSTIC ATTENUATION

#HUS	330000	Acoustic Curtain Black - 1300mm x 2000mm 43DB sound reduction
#HUS	330001	Acoustic Curtain SSA Blue - 1300mm x 2000mm 43DB sound reduction
#HUS	330002	Acoustic Curtain SafeSmart Performance Panel - 1300mm x 2000mm
#HUS	330003	Acoustic Control Attachment - 0-10T
#HUS	330004	Acoustic Control Attachment - 11-20T
#HUS	330005	Acoustic Control Attachment - 21-30T
#HUS	330006	Acoustic Control Attachment - 31-40T
#HUS	330007	Acoustic Control Attachment - 41-50T

### CONQUIP PRODUCTS

#CMB	400031	Circular Muck Bin 250L
#BLX	DIRECT TO TRUCK SYSTEM	<p><b>A BULK WASTE BIN THAT DISCHARGES DIRECTLY INTO A SPOIL TRUCK FOR RAPID BULK EXCAVATION.</b></p> <ul style="list-style-type: none"> <li>• Load, lift and discharge directly into the back of a truck for fast spoil removal.</li> <li>• The skip discharges the spoil when the 'feet' are landed directly on the sides of the truck.</li> <li>• Available in a variety of sizes to suit your project.</li> <li>• Truck loading can be done within site boundary or on the roadside if approval is granted from local authorities.</li> </ul>
#BLX	BULKX FIXED STANDING GANTRY SYSTEM	<p><b>COMPACT CONFIGURATION OFTEN USED IN CITIES TO MINIMISE TRAFFIC RESTRICTIONS.</b></p> <ul style="list-style-type: none"> <li>• Bolt down frame creates a discharge location.</li> <li>• Often used in a concrete muck bay for projects with 24/7 excavation, where spoil removal trucks are not operating during the night.</li> </ul>

### SYDNEY METRO

#### INCREASING EFFICIENCY OF TUNNELLING MUCK AWAY ON AUSTRALIA'S LARGEST PUBLIC TRANSPORT PROJECT

Sydney Metro was Australia's biggest public transport project. The main challenges of this infrastructure project were site location and a confined operating space. As a result, JHCPBG needed to maximise available space on the site of the future Crows Nest station.

Conquip contacted JHCPBG during the tender phase and proposed the BulkX system which provides direct-to-truck spoil discharge. We could see the cost and site efficiency advantages from not stockpiling spoil on site.

Our design team partnered with the JHCPBG project team to come up with a best practice excavation solution. We considered vehicle movements, truck capacities and available space around the shaft opening.

We agreed on a solution which was a BulkX free-standing gantry system with an 8m<sup>3</sup> and a 13m<sup>3</sup> BulkX skip. The 8m<sup>3</sup> skip was used for loading the truck while the 13m<sup>3</sup> one was used for loading the dog trailer. Using the two gantry cranes within the excavation's acoustic enclosure, the truck and the dog could be loaded almost simultaneously. This enabled JHCPBG to have a full truck leaving site at least every 10 minutes, equating to approximately 50 trucks loaded each day.

CONTRACTOR  
John Holland CPB Ghella

LOCATION  
Crows Nest Station, Sydney



"We chose the BulkX for our spoil load out operations because it could load directly into trucks. This improved our site logistics by eliminating the stockpile from our yard. We worked closely with Conquip to size the bins to match our truck combinations, optimise the discharge frame configuration and model the cycle times."

Gene O'Sullivan, Project Manager  
John Holland CPB Ghella



### **CUSTOM DESIGN AND MANUFACTURE**

SafeSmart Access has a wide range of standard products for safely accessing heights in the tunnelling industry. If you have a height access requirement which cannot be met from our standard range, ask us about our custom design and manufacture service. In consultation with you, we will produce a design to suit the application and on approval of full drawings and 3D images, manufacture in our ISO90001 factory located in Northland, New Zealand.



[www.safesmartaccess.ca](http://www.safesmartaccess.ca)

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Emerald Park, Saskatchewan  
S4L 1B6 Canada  
1-866 635 8818

**Toronto Yard**  
200 Healey Rd,  
Bolton, Ontario  
L7E 5B1 Canada  
1-647 265 3223

**Vancouver Yard**  
43779 Progress Way,  
Chilliwack, Vancouver  
BC V2R 0E6  
1-778 730 0294