SCAFFOLDS CONFIGURATION

FIBREGLASS SCAFFOLD COMPONENTS

Fibreglass Scaffolds and Ladders

SCAFFOLD COMPONENTS

NARROW WIDTH 29'' (0.736m)

Guard rail frame
cod. UGR2937
3'7" (1.09m)

Guard rail section
requires:
(4) Horizontal braces
(1) Diagonal brace.

Aluminium and wooden
Toeboard set
6' (1.82m) cod. TB2906
8' (2.44m) cod. TB2908
10' (3.05m) cod. TB2910

Extension frame
cod. UEX2940A
4'0" (1.22m)

Narrow width scaffold
requires for section:
(1) Horizontal brace
(2) Diagonal braces.

Extension frame
cod. UEX2956A
5'6" (1.67m)

Fibreglass
Ladder
cod. UST56-69

Horizontal brace
6' (1.82m) cod. UH806
8' (2.44m) cod. UH808
10' (3.05m) cod. UH810

Extension frame
cod. UEX2969A
6'9" (2.07m)

Diagonal brace
6' (1.82m) cod. UD806
8' (2.44m) cod. UD808
10' (3.05m) cod. UD810

High clearance platform
6' (1.82m) cod. HCP06
8' (2.44m) cod. HCP08
10' (3.05m) cod. HCP10

Base frame
cod. US02900A

Short pin clip
cod. 14650

Hatch platform
6' (1.82m) cod. HP06
8' (2.44m) cod. HP08
10' (3.05m) cod. HP10

(4) Adjustable base
outrigger
cod. SR42
cod. SX66

Quick base
6' (1.82m) cod. UQB2906A
8' (2.44m) cod. UQB2908A

Long pin clip
cod. 14595

42" (1.06m)
66" (1.67m)

Base section
includes:
(4) Leg locks
cod. 14656

(4) Adjustable
stabilizer legs
12" (0.305m)
cod. 14684

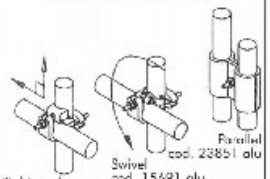
12" (0.305m)
22" (0.812m)

Base section requires:
(4) Base plates
cod. BP00

or (4) Castors
cod. CA05 (Ø127mm)
cod. CA06 (Ø152mm)
cod. CA08 (Ø203mm)

10" (0.254m)

COUPLERS



DOUBLE WIDTH 54'' (1.37m)

Guard rail frame
cod. UGR5437
3'7" (1.09m)

Guard rail section
requires:
(4) Horizontal braces
(1) Diagonal brace.

Aluminium and wooden
Toeboard set
6' (1.82m) cod. TB5406
8' (2.44m) cod. TB5408
10' (3.05m) cod. TB5410

Extension frame
cod. UEX5440A
4'0" (1.22m)

Double width scaffold
requires for section:
(2) Horizontal brace
(4) Diagonal braces.

Extension frame
cod. UEX5456A
5'6" (1.67m)

Fibreglass
Ladder
cod. UST56-69

Horizontal brace
6' (1.82m) cod. UH1806
8' (2.44m) cod. UH1808
10' (3.05m) cod. UH1810

Extension frame
cod. UEX5469A
6'9" (2.07m)

Standard platform
6' (1.82m) cod. SP06
8' (2.44m) cod. SP08
10' (3.05m) cod. SP10

Diagonal brace
6' (1.82m) cod. UD1806
8' (2.44m) cod. UD1808
10' (3.05m) cod. UD1810

Hatch platform
6' (1.82m) cod. HP06
8' (2.44m) cod. HP08
10' (3.05m) cod. HP10

Short pin clip
cod. 14650

(4) Adjustable base
outrigger
cod. SR42
cod. SX66

Quick base
6' (1.82m) cod. UQB5406A
8' (2.44m) cod. UQB5408A

Base frame
cod. US05400A

Long pin clip
cod. 14595

42" (1.06m)
66" (1.67m)

Base section
includes:
(4) Leg locks
cod. 14656

(4) Adjustable
stabilizer legs
12" (0.305m)
cod. 14684

12" (0.305m)
22" (0.812m)

Base section requires:
(4) Base plates
cod. BP00

or (4) Castors
cod. CA05 (Ø127mm)
cod. CA06 (Ø152mm)
cod. CA08 (Ø203mm)

10" (0.254m)

INSTRUCTION

SAFETY RULES AND ASSEMBLING SYSTEM

Genex Scaffolds

SAFETY RULES AND ASSEMBLY INSTRUCTIONS

1. Examine the erected scaffold thoroughly before using to assure that all assembly instructions have been followed and that there is no apparent damage to any scaffold component.
2. Do not roll or level scaffold with personnel or materials on platform.
3. Do not climb scaffold unless scaffold has been leveled and all casters and adjustable legs are locked.
4. Do not swing around the outside of the scaffolding to gain access to the platform. Climb over the top rung or through the end frame or up through the platform hatch for access to the work platform.
5. Stabilizers or wideners must be used on the scaffold if vertical extension sets are added to the base section.
6. Guard rails must be used when platform height is more than 4 feet (1.22m).
7. Always install and lock proper braces per instructions on scaffold.
8. Make sure that the assembled scaffold and its use conforms to all federal, state, and local safety codes.

Read and understand these Safety Rules and Assembly Instructions before assembling Genex Scaffolds. Do not permit anyone to use the scaffold who does not understand the material in this document.

If there is anything you do not understand, or if you have questions regarding Genex Scaffolds, call

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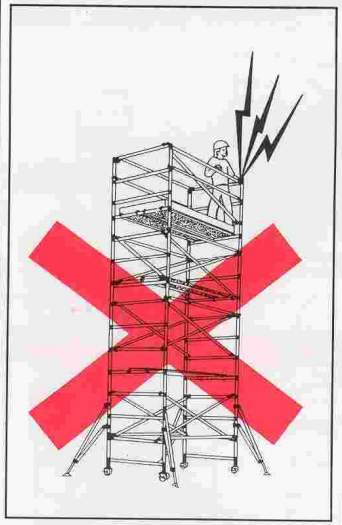
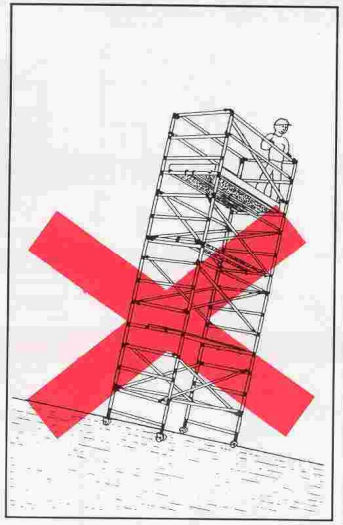
afety Instructions

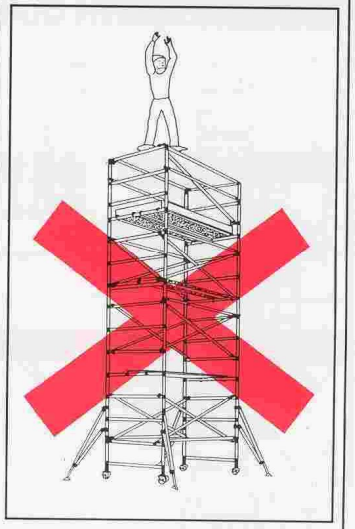
DANGER



Do not use within 10 feet (3.05m) of non-insulated, live electrical wires or devices.



Do not climb scaffold unless scaffold has been leveled and all casters and adjustable legs are locked.



Do not stand on or place loads on guard rail frames or braces.

USER ASSUMES RISK OF PERSONAL INJURY BY FAILURE TO READ AND FOLLOW MANUFACTURER'S SAFETY RULES AND ASSEMBLY INSTRUCTIONS, AND BY FAILURE TO OBSERVE FEDERAL, STATE, AND LOCAL CODES.

IMPORTANT INFORMATION ON ELECTRICAL PROPERTIES:

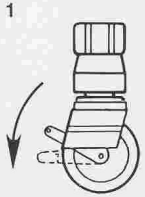
DO NOT USE SCAFFOLDS WITHIN 10 FEET (3.05 m) OF NON-INSULATED, LIVE ELECTRICAL WIRES OR DEVICES. GENEX PRO-TEC AND UNI-TEC ARE COMPOSITE MATERIALS POSSESS DIELECTRIC PROPERTIES THAT MAKE PRO-TEC AND UNI-TEC SCAFFOLDS NON-CONDUCTIVE TO ELECTRICAL CURRENT IN COMPLIANCE WITH ANSI A 14.5-1982, SECTIONS 7.10.1 AND 7.10.2 WHEN USED AS MANUFACTURED, CLEAN, AND IN DRY CONDITIONS. HOWEVER, THE NON-CONDUCTIVE PROPERTIES OF GENEX PRO-TEC AND UNI-TEC SCAFFOLDING MAKE THE SCAFFOLDS ELECTRICALLY ISOLATED ONLY. BEING ELECTRICALLY ISOLATED WILL NOT PROTECT THE USER FROM ELECTRICAL INJURY WHEN THE USER IS ELECTRICALLY GROUNDED, WHICH COULD OCCUR BECAUSE OF MOISTURE OR DIRT ON THE COMPOSITE MATERIALS, OR BECAUSE OF SIMULTANEOUS CONTACT WITH AN ELECTRICALLY CHARGED WIRE AND A NON-GROUNDED OBJECT.

Warning: Failure to understand and follow all Safety Rules and Assembly Instructions might result in serious injury or death.

A. Scaffolds Base A

NARROW WIDTH STANDARD SPAN

1

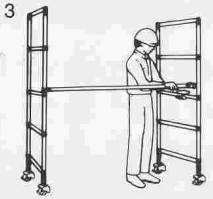


Lock all caster brakes.

2

Install one horizontal brace on vertical member of end frame with hook facing out.

3



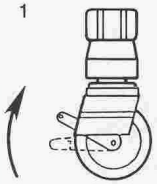
Repeat on opposite rung of other end frame.

4

Install two diagonal braces to form an "X" pattern.

NARROW WIDTH QUIK-BASE

1

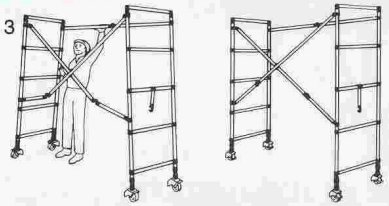


Unlock all caster brakes.

2

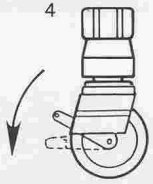
Unlock storage latch.

3



Roll end frames away from each other and lift up on diagonal and horizontal braces until all of the automatic locks engage.

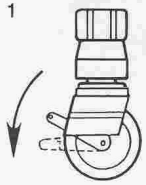
4



Lock all caster brakes.

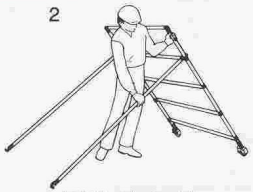
DOUBLE WIDTH STANDARD SPAN

1



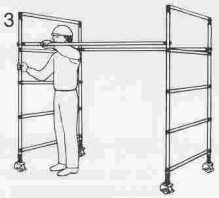
Lock all caster brakes.

2



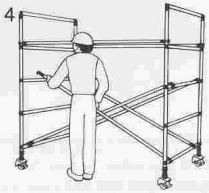
Install two horizontal braces on vertical members of end frame with hooks facing out.

3



Repeat on opposite rungs of other end frame.

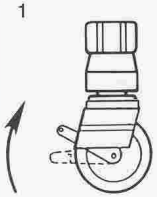
4



Install four diagonal braces to form a double "X" pattern.

DOUBLE WIDTH QUIK-BASE

1

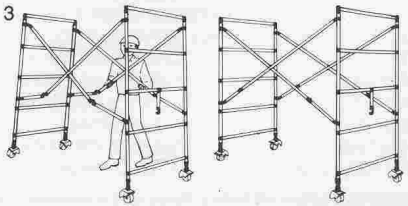


Unlock all caster brakes.

2

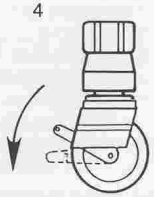
Unlock storage latch.

3



Roll end frames away from each other and lift up on diagonal braces until all of the automatic locks engage.

4



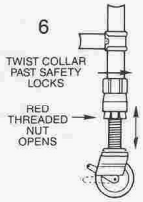
Lock all caster brakes.

ssembly Instructions

5

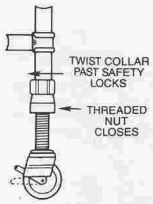
Install platform by hooking one end of platform over a horizontal rung. Snap other end of platform into position on the opposite rung.

6



Level scaffold using adjustable legs.

7



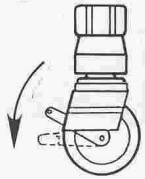
Lock adjustable legs before climbing scaffold.

HIGH CLEARANCE PLATFORM

1

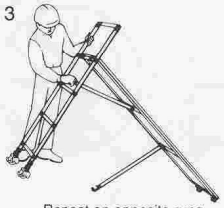
Unsnap diagonal support brace from platform.

2



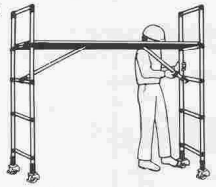
Lock caster brakes.

3



Repeat on opposite rung of other end frame.

4

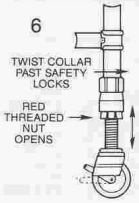


Attach platform to horizontal rung and snap diagonal brace into place.

5

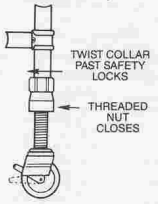
Install platforms by hooking one end of platform over a horizontal rung. Snap other end of platform into position on the opposite rung.

6



Level scaffold using adjustable legs.

7

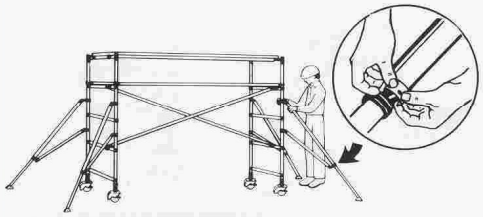


Lock adjustable legs before climbing scaffold.

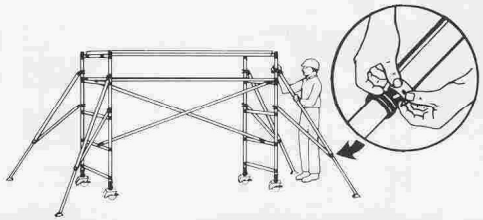
B. Stabilizers Assembly Instructions

NARROW WIDTH - STABILIZERS

STABILIZERS MUST BE USED IF VERTICAL EXTENSION SETS ARE ADDED TO THE BASE SECTION. ADJUST STABILIZERS TO PROVIDE A BASE WIDTH AT LEAST ONE-THIRD THE SCAFFOLD HEIGHT. SEE HEIGHT TO BASE RATIO ON THIS PAGE



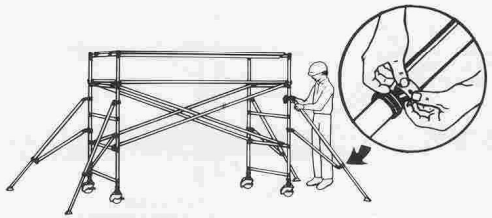
Regular stabilizers are attached to achieve 3 to 1 height to base ratio as outlined on this page. When stabilizer's telescoping leg is extended to desired position, install long pin clip.



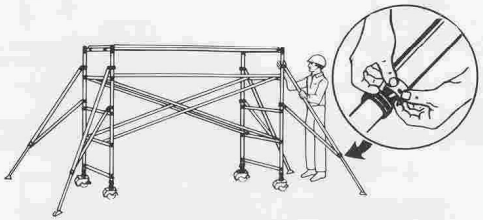
Extra wide stabilizers are required for platform heights above 30 ft. (9.1 m) to achieve 3 to 1 height to base ratio as outlined on this page. When stabilizer's telescoping leg is extended to desired position, install long pin clip.

DOUBLE WIDTH - STABILIZERS

STABILIZERS MUST BE USED IF VERTICAL EXTENSION SETS ARE ADDED TO THE BASE SECTION. ADJUST STABILIZERS TO PROVIDE A BASE WIDTH AT LEAST ONE-THIRD THE SCAFFOLD HEIGHT. SEE HEIGHT TO BASE RATIO ON THIS PAGE



Regular stabilizers are attached to achieve 3 to 1 height to base ratio as outlined on this page. When stabilizer's telescoping leg is extended to desired position, install long pin clip.



Extra wide stabilizers are required for platform heights above 30 ft. (9.1 m) to achieve 3 to 1 height to base ratio as outlined on this page. When stabilizer's telescoping leg is extended to desired position, install long pin clip.

HEIGHT TO BASE RATIO CHART

For Single Tower Applications

SCAFFOLD STABILIZERS
Position stabilizers so that the overall length is equal to the overall width

TOP VIEW

	STABILIZER/ WIDENER	SCAFFOLD LENGTH		SCAFFOLD MODEL	OVERALL LENGTH W/STABILIZER		OVERALL WIDTH W/STABILIZER		MAXIMUM PLATFORM HEIGHT	
		U.S.-ft.	Metric-m		U.S.-ft.	Metric-m	U.S.-ft.	Metric-m	U.S.-ft.	Metric-m
NARROW WIDTH 29" (738m)	SR42 or ASR42	10' 0"	3.05	2910*	10' 0"	3.05	9' 5"	2.87*	28' 4"	8.63
	42"	8' 0"	2.44	2908	9' 4"	2.84	9' 4"	2.84	28' 0"	8.53
		6' 0"	1.82	2906	8' 10"	2.69	8' 10"	2.69	26' 6"	8.07
	SX66 or ASX66	10' 0"	3.05	2910	12' 11"	3.93	12' 11"	3.93	38' 11"	11.86
	66"	8' 0"	2.44	2908	12' 0"	3.65	12' 0"	3.65	36' 0"	11.00
		6' 0"	1.82	2906	11' 9"	3.58	11' 9"	3.58	35' 4"	10.77

	STABILIZER	SCAFFOLD LENGTH		SCAFFOLD MODEL	OVERALL LENGTH W/STABILIZER		OVERALL WIDTH W/STABILIZER		MAXIMUM PLATFORM HEIGHT	
		U.S.-ft.	Metric-m		U.S.-ft.	Metric-m	U.S.-ft.	Metric-m	U.S.-ft.	Metric-m
DOUBLE WIDTH 54"(1.37m)	SR42 or ASR42	10' 0"	3.05	5410	11' 0"	3.35	11' 0"	3.35	33' 0"	10.05
	42"	8' 0"	2.44	5408	10' 10"	3.30	10' 10"	3.30	32' 0"	9.75
		6' 0"	1.82	5406	10' 2"	3.10	10' 2"	3.10	30' 6"	9.29
	SX66 or ASX66	10' 0"	3.05	5410	14' 2"	4.32	14' 2"	4.32	42' 6"	13.00
	66"	8' 0"	2.44	5408	13' 10"	4.21	13' 10"	4.21	41' 6"	12.65
		6' 0"	1.82	5406	13' 0"	4.00	13' 0"	4.00	39' 0"	11.88

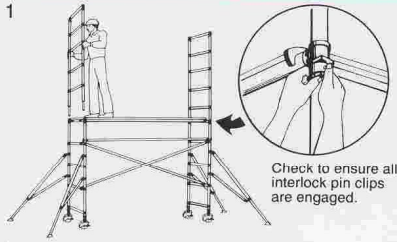
* When erecting scaffold model 2910 using SR42 or ASR42 stabilizers, stabilizers should be placed 90° to platform's length for the most stable configuration.

All measurements calculated on the maximum platform height allowable based on three (3) times the minimum base dimension with stabilizers or wideners attached.

C. Extension Sets Assembly Instructions

NARROW WIDTH EXTENSIONS

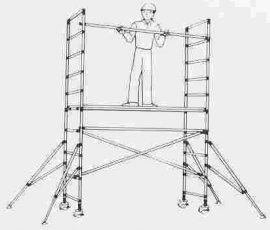
1



Check to ensure all interlock pin clips are engaged.

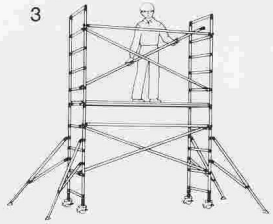
Insert extension frames into base end frames to which stabilizers (or wideners) have been installed.

2

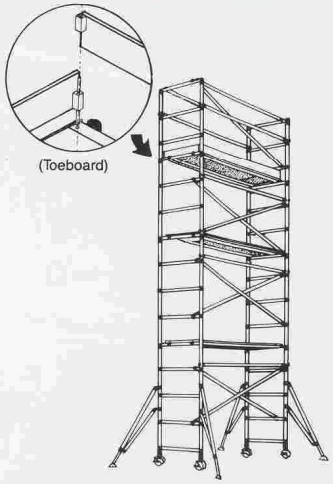


Install one horizontal brace with hook facing out.

3



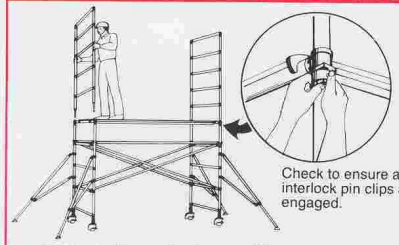
Install two diagonal braces to form an "X" pattern.



(Toeboard)

NOTE: WHEN FINAL WORKING HEIGHT HAS BEEN ACHIEVED, INSTALL GUARD RAIL ASSEMBLY INCLUDING (4) HORIZONTAL AND (1) DIAGONAL BRACE AND TOEBOARDS.

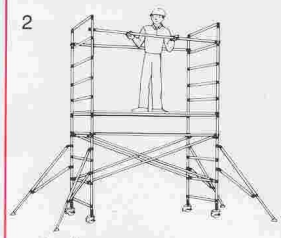
DOUBLE WIDTH EXTENSIONS



Check to ensure all interlock pin clips are engaged.

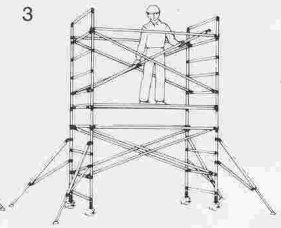
Insert extension frames into base end frames to which stabilizers have been installed.

2

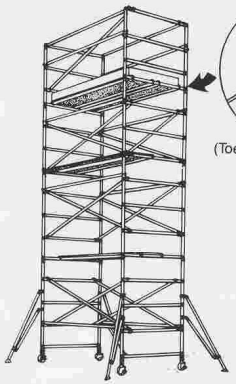


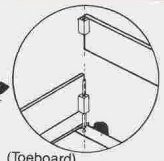
Install two horizontal braces with hooks facing out.

3



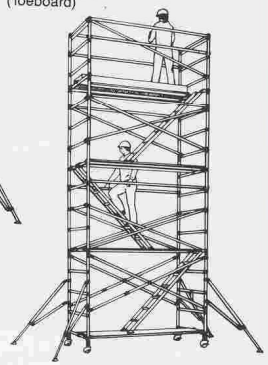
Install four diagonal braces to form a double "X" pattern.





(Toeboard)

NOTE: WHEN FINAL WORKING HEIGHT HAS BEEN ACHIEVED, INSTALL GUARD RAIL ASSEMBLY INCLUDING (4) HORIZONTAL AND (1) DIAGONAL BRACE AND TOEBOARDS.



Tower with optional Walk-up (ST 00) ladders and platforms.

CERTIFICATES

TUV – INSPECTION
AND TESTS

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1004

December 2004

ICS 91.220

Supersedes HD 1004:1992

English version

Mobile access and working towers made of prefabricated elements - Materials, dimensions, design loads, safety and performance requirements

Échafaudages roulants de service en éléments préfabriqués - Matériaux, dimensions, charges de calcul et exigences de sécurité

Fahrbare Arbeitsbühnen aus vorgefertigten Bauteilen - Werkstoffe, Maße, Lastannahmen und sicherheitstechnische Anforderungen

This European Standard was approved by CEN on 12 November 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Ref. No. EN 1004:2004: E

TÜV NORD

Zertifikat

Certificate

Registrier-Nr.
Registered No.
1548/05 Rev. 1

Zeichen des Auftraggebers *Customer's reference*	Auftragsdatum *Date of order*	Aktenzeichen *File reference*	Prüfbericht Nr. *Test report no.*
Frau Seifert	01.06.2005	2.4-333/94 Ar/A05	1547/05

Name und Anschrift des Auftraggebers
Name and address of the customer

AVV Arbeitsbühnen
Vertriebs- und Vermietungsgesellschaft mbH
Hans-Georg-Albrecht-Weg 4
74523 Schwäbisch Hall, Deutschland

ist berechtigt, das unten genannte Produkt mit dem abgebildeten Zeichen zu kennzeichnen
is authorized to provide the product mentioned below with the mark as illustrated

TÜV NORD GS geprüfte Sicherheit

Fertigungsstätte
Manufacturing plant

Genex
Via Pascoli 21/1°, 37010 Affi, Italien

Geprüft nach
Tested in accordance with

DIN EN 1004: 2005-03

Das Produkt entspricht den Anforderungen des Geräte- und Produktsicherheitsgesetzes GPSG § 7(1)
The product is conform with the requirements of the Equipment and Product Safety Act – GPSG § 7(1)

Beschreibung des Produktes (Details s. Anlage 1)
Description of product (Details see Annex 1)

Fahrbare Arbeitsbühnen
Typen Span 1,370 und Span 0,736
Mobile working tower
Types Span 1,370 and Span 0,736

RWTÜV Systems GmbH
Zertifizierungsstelle für Gerätesicherheit und Medizinprodukte

i.V.

Gültig bis: **15.06.2010**
Valid until: 15.06.2010

Essen, 15.06.2005

Bitte beachten sie auch die umseitigen Hinweise
Please also pay attention to the information stated overleaf

...angemeierstr. 20 • 45141 Essen • Fon +49 (0)201 825 5120 • Fax +49 (0)201 825 3309

TÜV NORD

Anlage 1 zum Zertifikat Nr.: / *Annex 1 to Certificate No.:* **1548/05 Rev. 1**

Aktenzeichen: / *File reference:* **2.4-333/94**

15.06.2005

Typbezeichnung:	Span 1,370 und Span 0,736
Nutzlast:	2,0 kN/m² oder eine Einzellast von 1,0 kN
Werkstoff:	Alu-tec/Pro-tec/Uni-tec (Uni-Tec besteht wie Pro-Tec aus Fiberglas, jedoch sind hier die Querholme ebenfalls aus Kunststoff. D. h. für Uni-Tec werden keine stromleitenden Materialien verwendet.)
Hauptabmessungen der Plattformen:	Typ Span 1,370: Breite: 1,370 m, Längen: 1,820 m, 2,440 m und 3,050 m Typ: Span 0,736: Breite: 0,736 m, Längen: 1,820 m, 2,440 m und 3,050 m
Aufbauhöhen:	Innenaufbau: m 2,13/4,20/5,86/7,10/8,75/10,40/12,00 Außenaufbau: m 2,13/4,20/5,86/7,10/8,00
Aufstieg:	Rutschfeste Sprossen in den Seitenteilen
Maßnahmen zur Standsicherheit:	Abstützungen und zusätzliche Ballastgewichte
Prüfunterlagen:	Bericht Nr. 957/94 über die Prüfung von Berechnungs- und Zeichnungsunterlagen sowie Bericht Nr. 958/94 über die Bau- und Abnahmeprüfung

Die oben aufgeführten Produkte dürfen wie folgt gekennzeichnet werden:
The above mentioned products could be provided with the following marking:

TÜV NORD GS geprüfte Sicherheit

RWTÜV Systems GmbH
Zertifizierungsstelle für
Gerätesicherheit und Medizinprodukte

i.V.

Langemarckstr. 20 • 45141 Essen • Fon +49 (0)201 825 5120 • Fax +49 (0)201 825 3209

DH GLABE & ASSOCIATES, INC.
PO Box 21136 • Denver, CO 80221 • (303) 301-2646 • FAX (303) 426-6397
8753 Yates Dr., Suite 200 • Westminster, CO 80031 USA • www.glabe.com

CERTIFICATION

Issue Date: September 11, 2005

Expiration Date: December 31, 2010

Certificate Holder: GENEX SRL
Terramatta, 1
37010 Rivoli
Veronese – Italy

RANDALL INDUSTRIES, INC.
741 South Route 83
Elmhurst, IL 60126 USA

This certificate verifies that the Genex Portable Scaffolds are in compliance with the applicable United States Federal Occupational Safety & Health Administration (OSHA) 29 CFR 1926 and 29 CFR 1926 Standards that are in effect on the date of this certification.

This certificate verifies that the Genex Portable Scaffolds are in compliance with the applicable American National Standards Institute (ANSI) A10.8 Standards that are in effect on the date of this certification.

This certification is based on certified test results and manufacturing data provided by other sources for the purpose of determining compliance with the applicable standards.

Certified: September 11, 2005

By: David H. Glabe, P.E.

Dunn-Wright Engineering Inc.
CONSULTING ENGINEERS
82 Matson Drive
Caledon, Ontario
Canada L7E 0A3

Phone: 905/880-4422
Fax: 905/880-3068

E-mail:
mgmyr@Dunn-Wright.ca

Professional Engineers Ontario

Authorized by the Association of Professional Engineers of Ontario to provide professional engineering services.

MEMBRE
Ordre des ingénieurs du Québec

31 October 2006

Genex s.r.l.
Loc. Terramatta, 1
37010 Rivoli Veronese (VR)
Italy

Attention: Mr. Pasquale Iannone

Re: Genex Scaffolds – Canadian Approval

Dear Mr. Iannone:

Having reviewed data on two sets of tests carried out by RWTÜV, Anlagentechnik GmbH, Langemarckstraße 20, 45141 Essen, Germany, I can state that the scaffold satisfies the requirements of Canadian Standard CAN/CSA-S269.2-M87, *Access Scaffolding for Construction Purposes* for light-duty loading (1.2 kN/m2 [25 lb/ft^2] when used with stabilizers and/or counterweights as identified later in this review.

Pertinent excerpts from the Standard are quoted on the pages following with commentary based on reports by the testing agency.

Yours truly,
DUNN-WRIGHT ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER
J. M. ROSENTHAL
PROVINCE OF ONTARIO

John Rosenthal, P.Eng.
Consulting Engineer
President

MEMBER SIAC

MEMBER SIA

Manweb
A ScottishPower Company

Electrical Test Centre

Certificate Of Dielectric Test

Description: GENex UNI-TEC FIBREGLASS SCAFFOLDING POLE
Date of Test: 26 JUNE 1996
Location: MANWEB ELECTRICAL TEST CENTRE

This is to certify that the above sample of equipment has withstood a dielectric test rated at 100kV per foot of length in accordance with the relevant sections of the following recognized standards:

a) BS 7695 - Insulating Foam-Filled Tubes and Solid Rods for Live Working.

b) ASTM 711-89 - Specification for Fibreglass Reinforced Plastic Rod and Tube used in Live Line Tools.

c) OSHA 1910.269.

d) IEEE Std 978-1984 - Guide for In-Service Maintenance and Electrical Testing of Live Line Tools.

Test Method
Electrodes were placed at 6in intervals along the 53in length of Fabaloy Fibreglass Scaffolding.

The sample piece was spayed with a fine mist of distilled water.

50kV a.c. was applied to each electrode (equivalent to 100kV/ft) for a period of 3 minutes and the leakage current to ground was measured.

Result
The sample withstood the dielectric test and the leakage to ground current was measured as 1.2mA (milliamp).

Tested by: *Dewi T. Jones*

Authorization signature: *Dewi T. Jones*

Dewi T Jones MEng AMIEE
Electrical Test Centre Manager

STUTTGART UNIVERSITY

High Tension and Electric Power
Transfer Institute of Stuttgart
University, Nielsenstrasse, 18
D - 73760 Ostfildern

Institut für Energieübertragung
und Hochspannungstechnik
Director: Prof. Dr. Eng. Kurt Feser
Stuttgart
Breitscheidstrasse, 2 D - 70174
Stuttgart
Telephone (0711) 121-3670
Telefax (0711) 121-3666
Ostfildern-Nollingen
Nielsenstrasse, 18 D - 73760 Ostfildern
Telephone (0711) 3412075
Telefax (0711) 3481669
University Telex (0711) 7 21 703
Elaborator: Dr. Ing. W. Köhler
Telephone (0711) 34 120 75

Date: 26th April 1996

TEST REPORT

Type of Test: electric strength test of quick erection fiberglass scaffolds with alternating tension - 50 Hz for 15 minutes.

Item tested: quick erection GENEX scaffold, type UNI-TEC.

For Stuttgart University: Mr. Köhler.

Test Place and Date: high tension laboratory of Stuttgart University: Nielsenstrasse 18, 73760 Ostfildern, 23rd April 1996.

Test Result: there was no discharge in the 15-minute-test, with an alternating tension - from 50 Hz. to 220 kV. (real value). The maximun dispersed current was of 0.36 mA. Then, there were no other discharge traces on the erection scaffold.

1. Test Aim: in order to prove that the quick erection scaffold is suitable for erection works in high tension fields (aerial lines, electric feeding plants), we have examined the insulating properties of a quick erection scaffold type UNI-TEC in Stuttgart University high tension laboratory in Ostfildern, with an alternating tension from 50 Hz. to 220 kV.

2. Test Construction: the erection scaffold has been put on a sheet-copper with grounding, placed on the ground. The high tension (alternating tension at 50 Hz.) has been put through an aluminium pipe with a 40-mm-diametre and a 3.5m-lenght. The aluminium pipe was placed on the higher trasversal struts of the lateral erection scaffold frame.
The test tension and measurement equipment satisfied the requisites indicated by DIN VDE 0432 and DIN IEC 60-I (high tension test techniques) under all points of view .
In addition to the tension measurement, the current on the ground has

been measured too. A current-meter (Multimeter Fluke 75) has been put between the ground and the grounding connection. Picture nr. 1 shows a photo of the test construction.

Picture nr. 1: insulation test construction of the quick erection scaffold, type UNI-TEC, with aluminium pipe on the top (placed on the high tension) and sheet-copper with grounding on the ground.

The erection scaffold has not been expressly cleaned for the test. Anyway, the surface was quite clean and dry.

During the measurements, there was a 22°C-room temperature, a 995-mbar-atmospheric pressure and a 50%-air relative humidity.

3. Test Development and Results: at the beginning, the erection scaffold has been exposed to a 110-kV-test tension for 15 minutes. There was no discharge and you heard no discharge noice. Meanwhile, there was a 0.18-mA alternating current on the ground which remained the same during the whole test.

The aluminium pipe was placed more or less between the two higher transversal struts (cfr. picture nr. 1). After the interruption of the test tension, we have looked for some possible discharge traces on the two superior, transversal erection scaffold struts: we didn't find any.

We then made the same test with a 220-kV-tension. There was no discharge during the 15-minute-test. We heard discarghe noises only at the end of the aluminium pipe. The alternating current measured on the ground was of 0.36 mA and it remained the same during the whole test. After the interruption of the test tension, the superior, transversal struts surfaces of the erection scaffolds have been controlled again to see if there were some possible discharge traces: we didn't find any.

Another test has then been made with a 220-kV-alternating tension, placing the aluminium pipe at the external end of the two superior trasversal struts, as the metal security belt fasteners are there. In this case too, in comparison with the test made with the aluminium pipe placed in the middle, nothing changed in the test result. You could hear discharges only at the end of the aluminium pipe. The alternating current measured was the same as before: 0.36 mA and it always remained the same. After the interruption of the test tension, no significant discharge traces appeared on the surface of the two superior trasversal struts of the erection scaffold.

Ostfildern, 26.04.1996

High Tension and Electric Power
Transfer Institute
of Stuttgart University
Prof. Eng. Kurt Feser
High Tension Technique, Nollongen-Zinshelg
D - 73760 Ostfildern, Nielsenstrasse 18
Telephone 407117 3412075

(Dr. Eng. W. Köhler)

CHEMICAL RESISTANCE

Fibreglass Scaffolds and Ladders
Genex
Head Office: Loc. Terranotta 1, 37010 Rivoli Veronese (VR) Italy
Sales Department: Via Caproni 7, 38068 Rovereto (TN) Italy
Tel. +39 0464 485046 Fax +39 0464 421471
E-mail: info@genexscaffolds.com

SCAFFOLDS GRP MATERIALS
RESISTANCE TO CHEMICALS

The below-listed results have been obtained on some 4mm thickness test-pieces, after having tested them by immersion for 60 days (reference to the ASTM D 543 Norm).

These test-results are considered valid on the below-listed profiles:

VINYLESTER

- GRP Tube 2" yellow colour RAL 1023
- GRP Ribbed -Tube 2" yellow colour RAL 1023

CHEMICAL AGENTS	CONCENTRATION %	POLYESTERE		VINYLESTERE	
		21°C	71°C	21°C	71°C
VINEGAR	ALL	●	●	●	●
ACETONE	ALL	○	○	○	○
ACETIC ACID	5	●	●	●	●
ACETIC ACID	25	●	○	●	●
ALIFATIC ACIDS	100	●	●	●	●
CHROM ACID	5	○	○	●	●
FUSILLICI ACID	20	○	○	●	●
CHLORID ACID	25	●	○	●	●
CHLORID ACID	37	●	○	●	●
NITRIC ACID	5	●	●	●	●
SULPHORIC ACID	1	●	●	●	●
SULPHORIC ACID	10	●	●	●	●
SULPHORIC ACID	25	●	●	●	●
SULPHORIC ACID	30	●	●	●	●
SULPHORIC ACID	50	○	○	●	●
CHLORIDE WATER	ALL	○	○	●	●
BENZENE	ALL	○	○	○	○
GASOLINE	100	●	○	●	●
SODIUM BICARBONATE	10	●	●	●	●
SODIUM DIOXIDE	WET	○	○	●	●
SODIUM DISULPHATE	ALL	●	●	●	●
SODIUM CARBONATE	25	●	○	●	●
SODIUM CHLORURE	ALL	●	●	●	●
CALCIUM CHLORATE	ALL	●	●	●	●
MAGNESIUM CHLORATE	100	●	●	●	●
METHYLENE CHLORIDE	ALL	○	○	○	○
ETHYLIC ETHER	ALL	○	○	○	○
ETHYLENIC GLICHOLE	ALL	●	●	●	●
KEROSENE	100	●	○	●	●
AMMONIUM HYDROXIDE	10	●	○	●	66°C
SODIUM HYDROXIDE	5	○	○	●	49°C
METIL ETHYL KETONE	100	○	○	○	○
MINERAL NAPHTHA	100	●	●	●	●
SODIUM NITRATE	ALL	●	●	●	●
MINERAL OIL	100	●	●	●	●
SODIUM SILICATE	ALL	●	○	●	●
ALUMINIUM SULPHATE	5	●	●	●	●
ALUMINIUM & POTASSIUM SULPHATE	5	●	●	●	●
COPPER SULPHATE	ALL	●	●	●	●
IRON SULPHATE	ALL	●	●	●	●
SODIUM SULPHATE	ALL	●	●	●	●
ZINC SULPHATE	ALL	●	●	●	●
TOLUENE	ALL	○	○	○	○
TRISODIUM PHOSPHATE	20	●	○	●	●

Legend: ○-Non-resistant ●-Resistant

DEPLIANTS

Assembly and maintenance of a thermic-conditioning

Safety and maintenance structure for locomotive

Genex

Fibreglass and Aluminium Scaffolds

CONSTRUCTION
INSTALLATION
MAINTENANCE

Tower on stairs with a difference in level of 1,5 m

- **CERTIFICATIONS**

RWTÜV GS gepruefte Sicherheit

RWTÜV GS

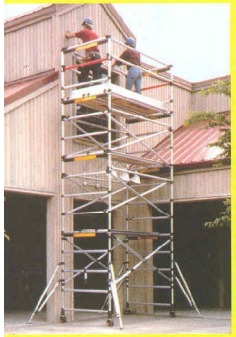
N. 959/94

- **ACCORDING TO**

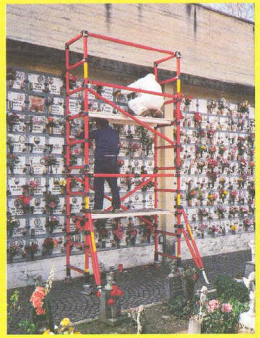
UNI-HD 1004 DIN 4422
LOAD CAPACITY 2.0 kN/m²
CLASS 3

Tower with overhang for thermic power plant

Rail platform widening



Wooden and
steel carpentry



Graveyard maintenance

DISTRIBUTED BY:

DIMENSIONS

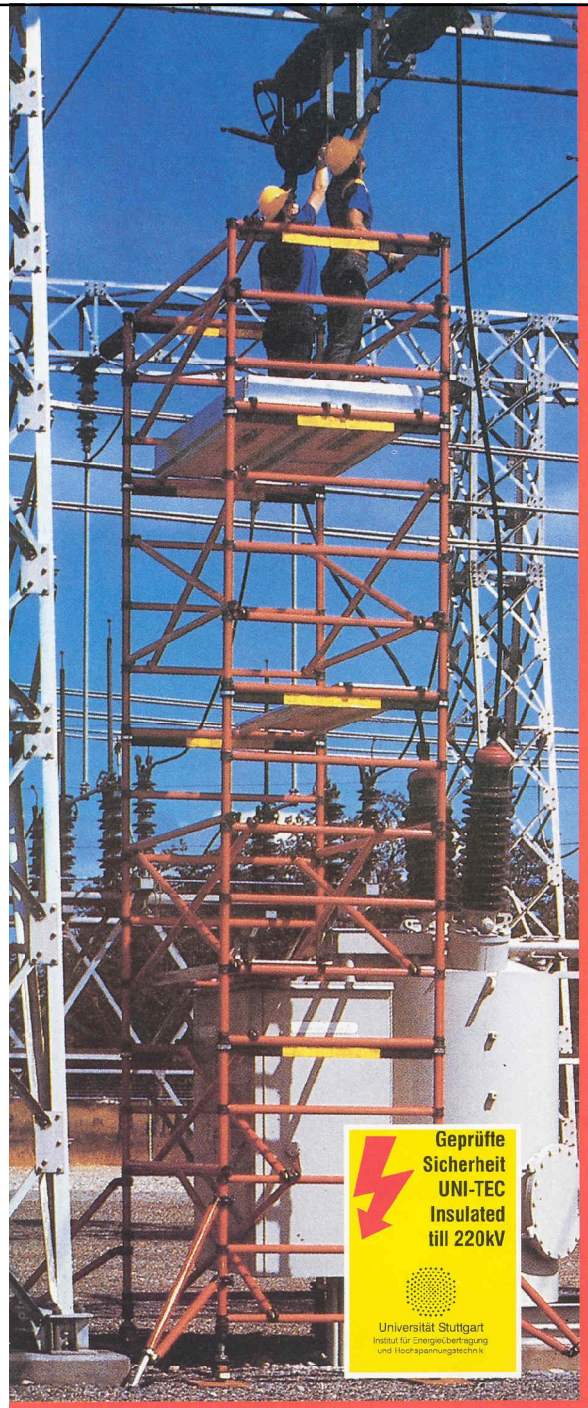
Width	0,73	1,37 m		29"	54"
Lenght	1,82	2,44	3,05 m	6' 8'	10'

Several heights available according to the norms

- We manufacture structures to measure

Assembly and maintenance of thermic-conditioning

Signs fixing and maintenance



Maintenance in an electrical power plant

Genex

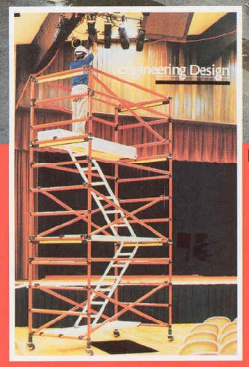
UNI - TEC Fibreglass Scaffolds

ELECTRICITY

- ✔ **Completely in UNI-TEC fibreglass**
- ✔ **Insulated,** tested by:
  - Stuttgart University
  - MANWEB Scottish Electrical Company
- ✔ **Dielectric,** tested by:
  - Westinghouse U.S.A.
- ✔ **Safe** even if working near electrical lines
- ✔ **Practical**
- ✔ **Light**
- ✔ **Easy to assemble**
- ✔ **Modular**
- ✔ **Safety colour**

Assembly and maintenance of neon lights

Inside of an electrical power plant



IDEAL for:

- ✔ **ELECTRICAL COMPANIES**
- ✔ **MUNICIPAL INSTITUTIONS**
- ✔ **PRIVATE COMPANIES**
- ✔ **TELEPHONE COMPANIES**
- ✔ **RAIL COMPANIES**
- ✔ **MAINTENANCE**
- ✔ **INSTALLATION**
- ✔ **THEATRES, CINEMAS**
  CHEMICAL INDUSTRIES

DIMENSIONS

Width	0,73	1,37 m		29"	54"	
Lenght	1,82	2,44	3,05 m	6'	8'	10'

Several heights available according to the norms

- We manufacture structures to measure

UNI-TEC fibreglass platform

- **CERTIFICATIONS**

RWTÜV GS geprüfte Sicherheit

RWTÜV GS

N. 959/94

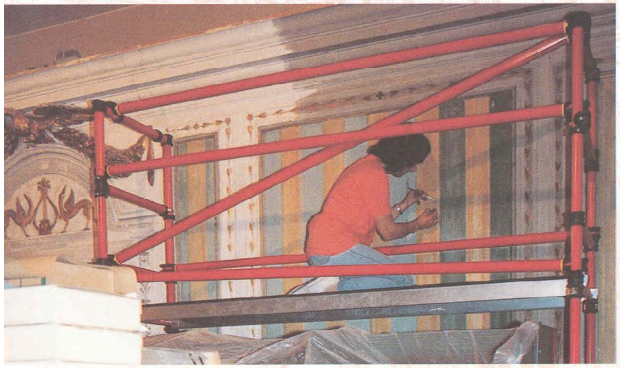
- **ACCORDING TO**

UNI-HD 1004 DIN 4422
LOAD CAPACITY 2.0 kN/m²
CLASS 3

DISTRIBUTED BY:

Inside maintenance with working system

Church of Santa Caterina di Saragozza (Bologna)



Bank archives (Verona)

Genex

Fibreglass and Aluminium Scaffolds

RESTORATION

- ✔ **Light**
- ✔ **Easy to assemble**
- ✔ **Safe**
- ✔ **Aggressive substances, acids, thinners, plasters, colours resistant**
- ✔ **No dirt**
- ✔ **No rust**
- ✔ **Do not oxidize**
- ✔ **In accordance to European norms**

Bank archives (Verona)

Restoration of a wooden ceiling (Bologna)

IDEAL for:

- ✔ **RESTORERS**
- ✔ **SUPERINTENDENCE FOR ARTISTIC, ARCHITECTURAL, ARCHAEOLOGICAL AND HISTORICAL PROPERTIES**
- ✔ **INSTITUTES, UNIVERSITIES**
- ✔ **PUBLIC AND PRIVATE BODIES**
- ✔ **CHURCHES**
- ✔ **MUSEUMS**
- ✔ **CULTURAL FOUNDATIONS**

Bank archives (Verona)

Painting restoration (Firenze)

DIMENSIONS

Width	0,73	1,37 m		29"	54"
Lenght	1,82	2,44	3,05 m	6'	8' 10'

Several heights available according to the norms

- We manufacture structures to measure

- **CERTIFICATIONS**

N. 959/94

- **ACCORDING TO**

UNI-HD 1004 DIN 4422
LOAD CAPACITY 2.0 kN/m²
CLASS 3

DISTRIBUTED BY:

Fibreglass Scaffolds and Ladders

Genex

UNI- TEC HELICOPTER ACCESS MAINTENANCE EQUIPMENT

AEC 135 uni-tec main rotor access staging

ECUREUIL uni-tec main rotor access staging

HH3F uni-tec full access staging

SUPERPUMA uni-tec full access staging

✓ **CERTIFICATIONS:** N. 959/94

✓ **ACCORDING TO:** UNI-HD 1004 DIN 4422
LOAD CAPACITY 2.0 kN/m² CLASS 3

✓ **NATO CODE No. 7450P**

ADVANTAGES

- ✓ Modular
- ✓ Versatile
- ✓ Trasportable by aeroplane
- ✓ Interchangeable
- ✓ Lightweight
- ✓ Easy-to-assemble
- ✓ Motor -hydraulic oils and paints remover resistant
- ✓ Non-conductive
- ✓ Non rust - no oxidation
- ✓ Safer from spark risks

Genex products are manufactured to specific requirements

Distributed

AB212 uni-tec full access staging

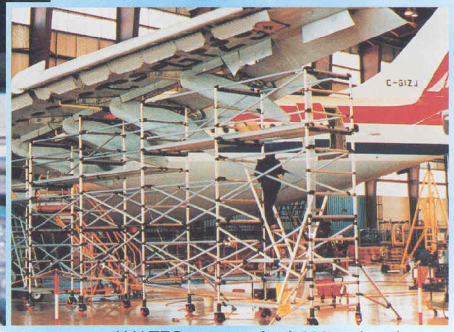
ALOUETTE uni-tec main rotor access staging

NH 500 uni-tec main and tail rotor access staging

Genex

Fibreglass and Aluminium Scaffolds Structures

AIRCRAFT MAINTENANCE



UNI-TEC structure with overhang for Challenger 604 engine maintenance

ALU-TEC structure for A 300 under-wing

ALU-TEC structure for the entire tail stand of an MD80 with 2 working levels

- **CERTIFICATIONS**

RWTÜV GS — RWTÜV GS

N. 959/94

- **ACCORDING TO**

UNI-HD 1004 DIN 4422
LOAD CAPACITY 2.0 kN/m²
CLASS 3

- **NATO CODE No. 7450P**

UNI-TEC structure for fuselage, under-wing and tail of a Tornado

UNI-TEC structure for main rotor NH500

ADVANTAGES

- ✔ Modular
- ✔ Versatile
- ✔ Trasportable by aeroplane
- ✔ Interchangeable
- ✔ Light
- ✔ Easy-to-assemble
- ✔ Motor- hydraulic oils and paints remover resistant
- ✔ Electrical insulation
- ✔ Do not rust, do not oxidize

GENex realizes structures to measure with different colours

Anti-chute safety system BAe 146/200

ALU-TEC stand for Satcom antenna BAe 146/200

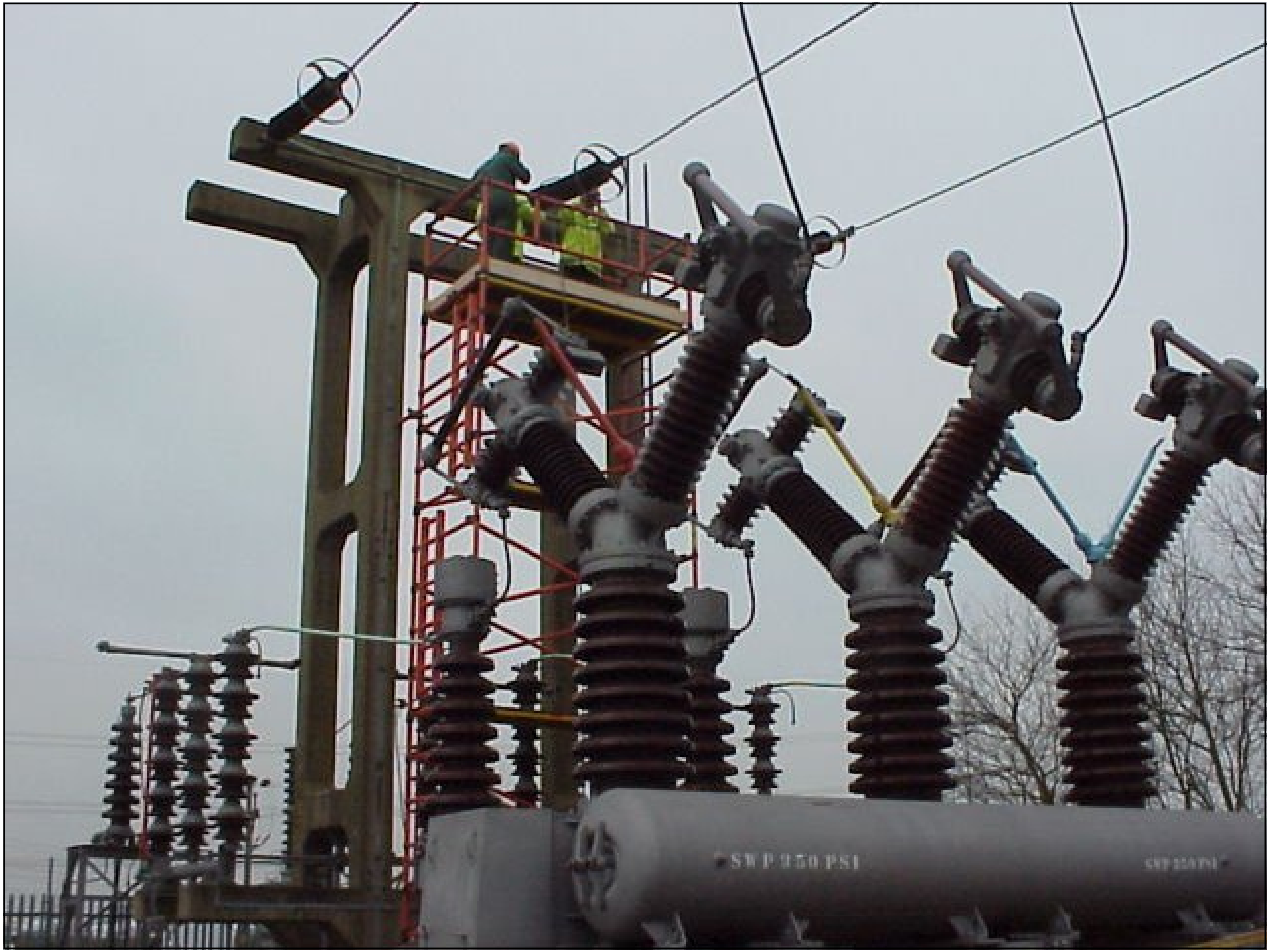
DISTRIBUTED BY:

PRO-TEC structure for main rotor and tail of a Superpuma

ELECTRIC JOBS

DILETECTRIC / INSULATED

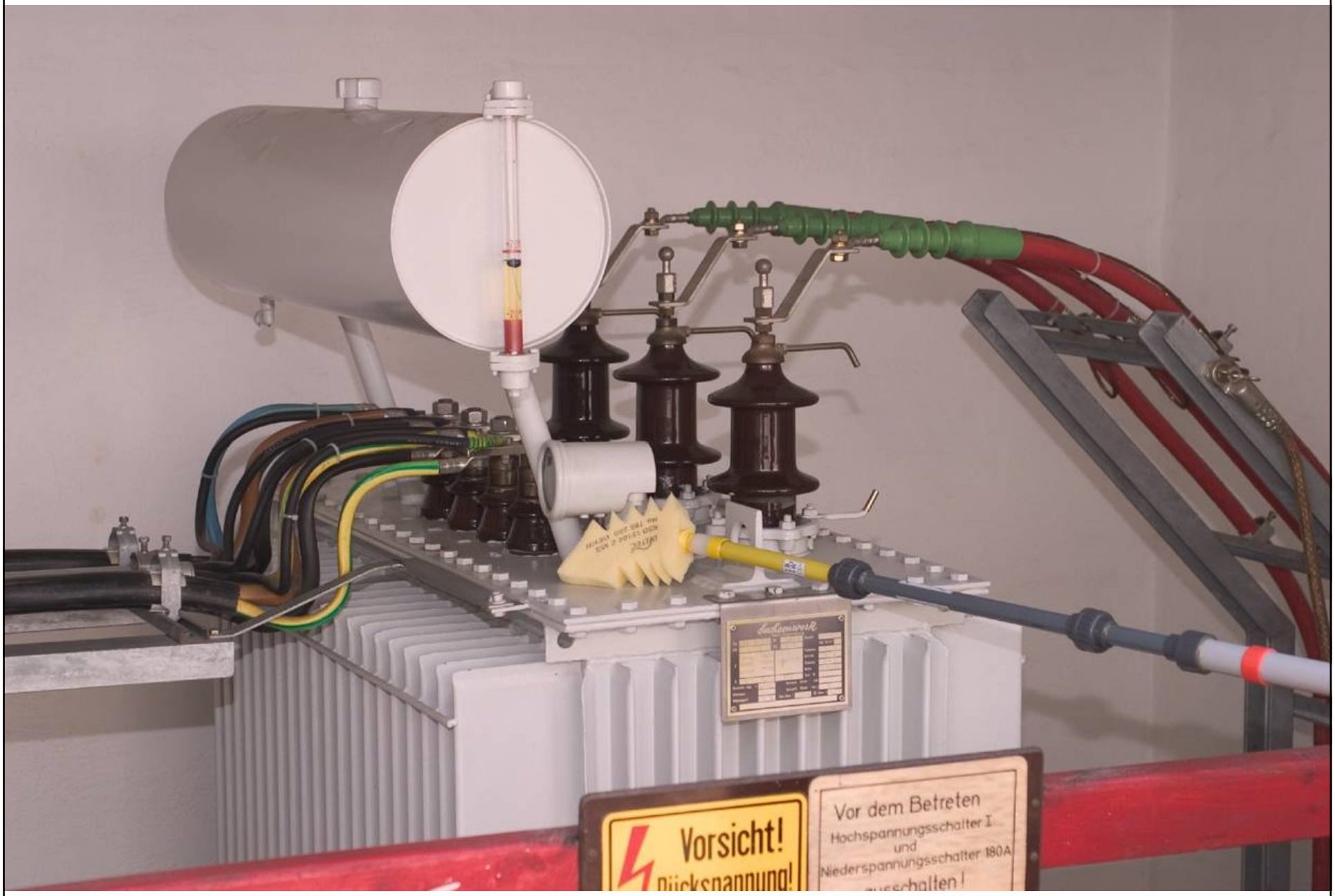
MORE SAFETY

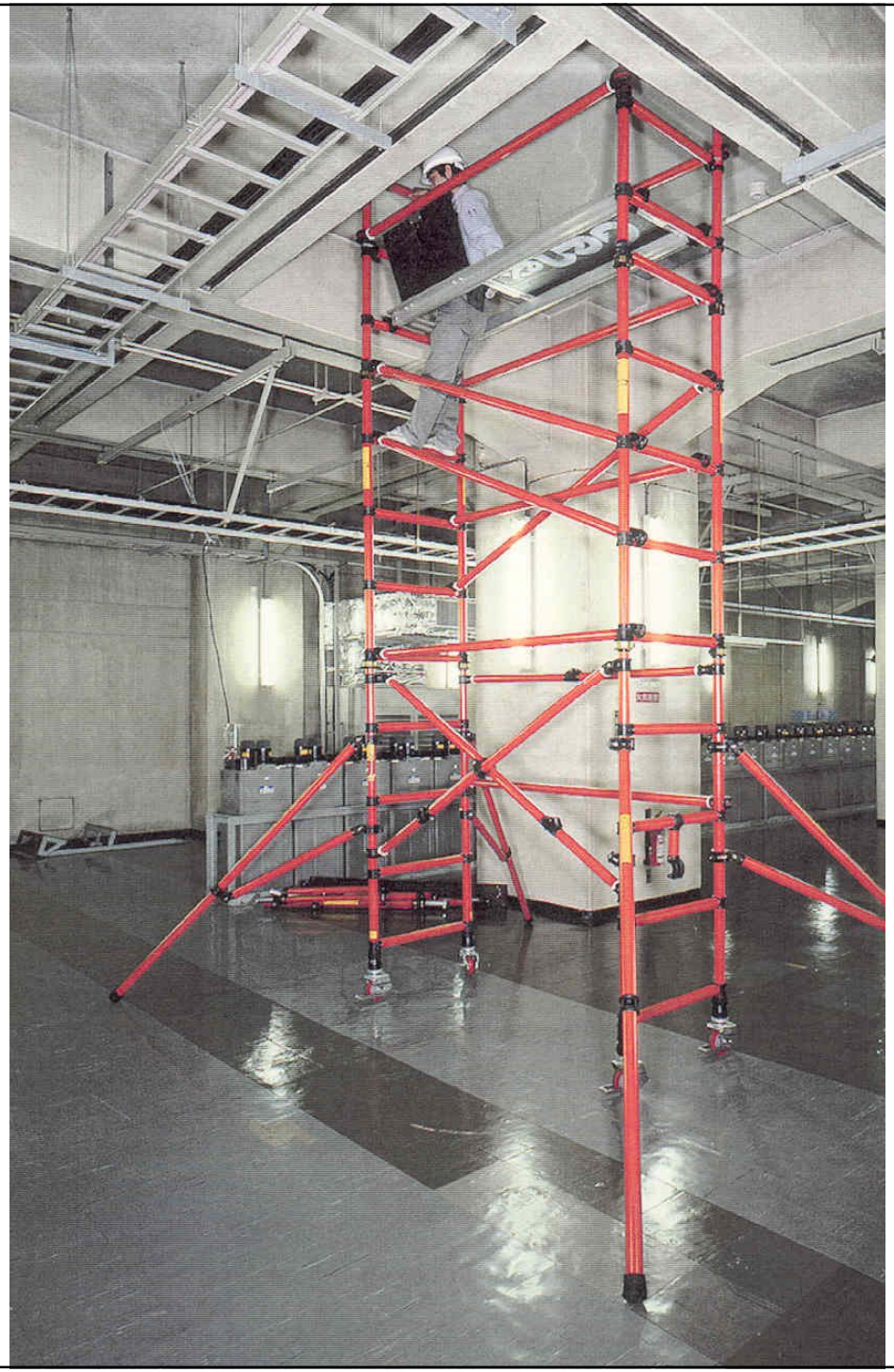

SWP 350 PSI


GPS-1
SGS-1


DELTEC


Vorsicht!
DELTEC


Vorsicht!
Rückspannung!
Vor dem Betreten
Hochspannungsschalter I
und
Niederspannungsschalter 180A
ausschalten!



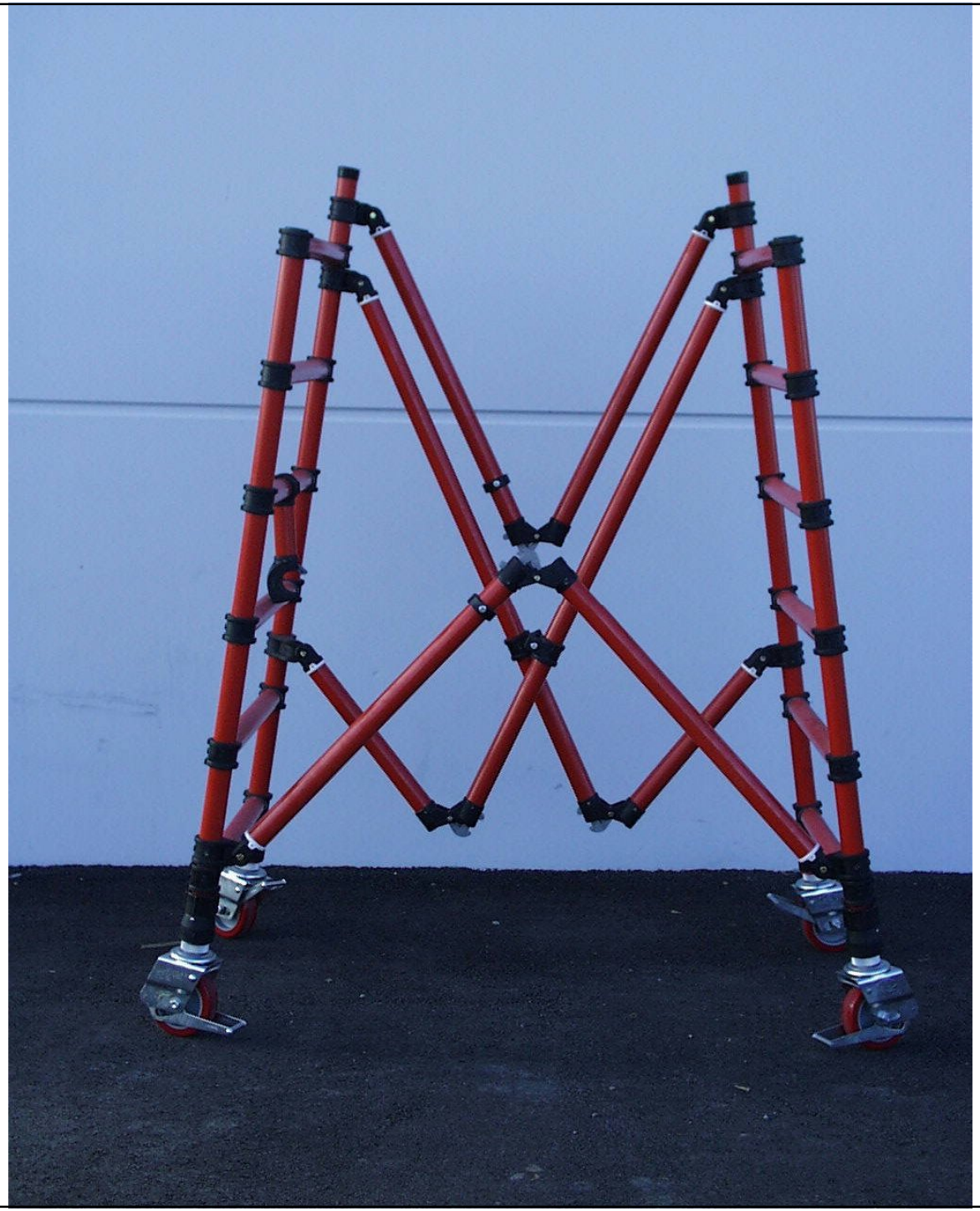

Engineering Design

LIVE WORKING

INSULATING

NEW SOLUTION

FIRE DEPARTMENT APPLICATION




EuroEire
MAGIRUS


2412
L4BH
FEUERWEHR
GRUPPENFÜHRER
FEUERWEHR
SCHWARZENFELD
FEUERWEHR
SCHWARZENFELD


FEUERWEHR
WERNBERG
FEUERWEHR
WERNBERG


FEUERWEHR
SCHWARZENBEK

NO SPARKING

SAFE IN ZONE 1

CLEAN
NO RUST
NO OXIDIZE

MODULAR AND VERSATILE

ONE PRODUCT
MANY SOLUTIONS


BY
123


BY
123
SWL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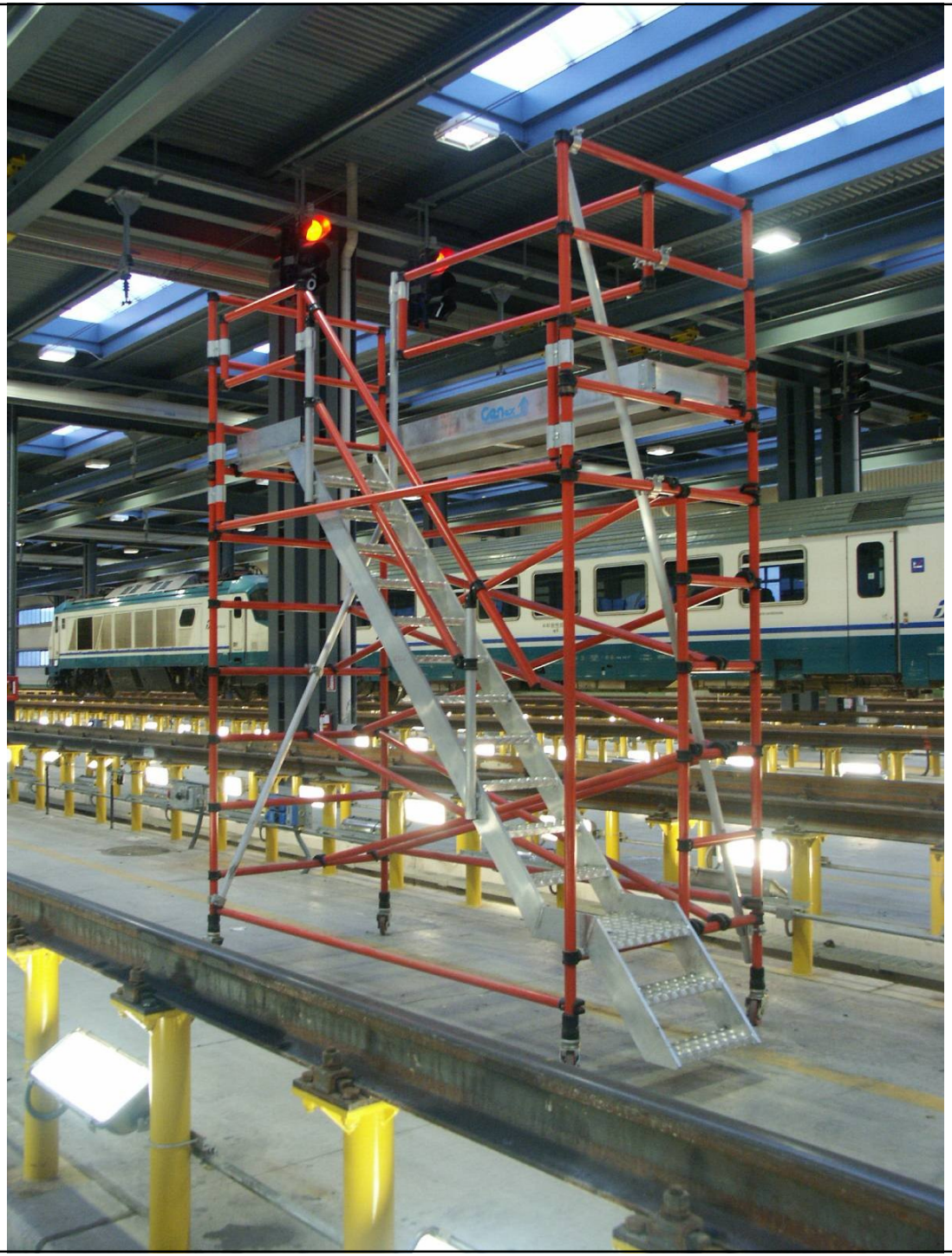
Genex




ALSTOM
TRENTINO TRASPORTI


ETi 8/8-406B


FEM
402


E 402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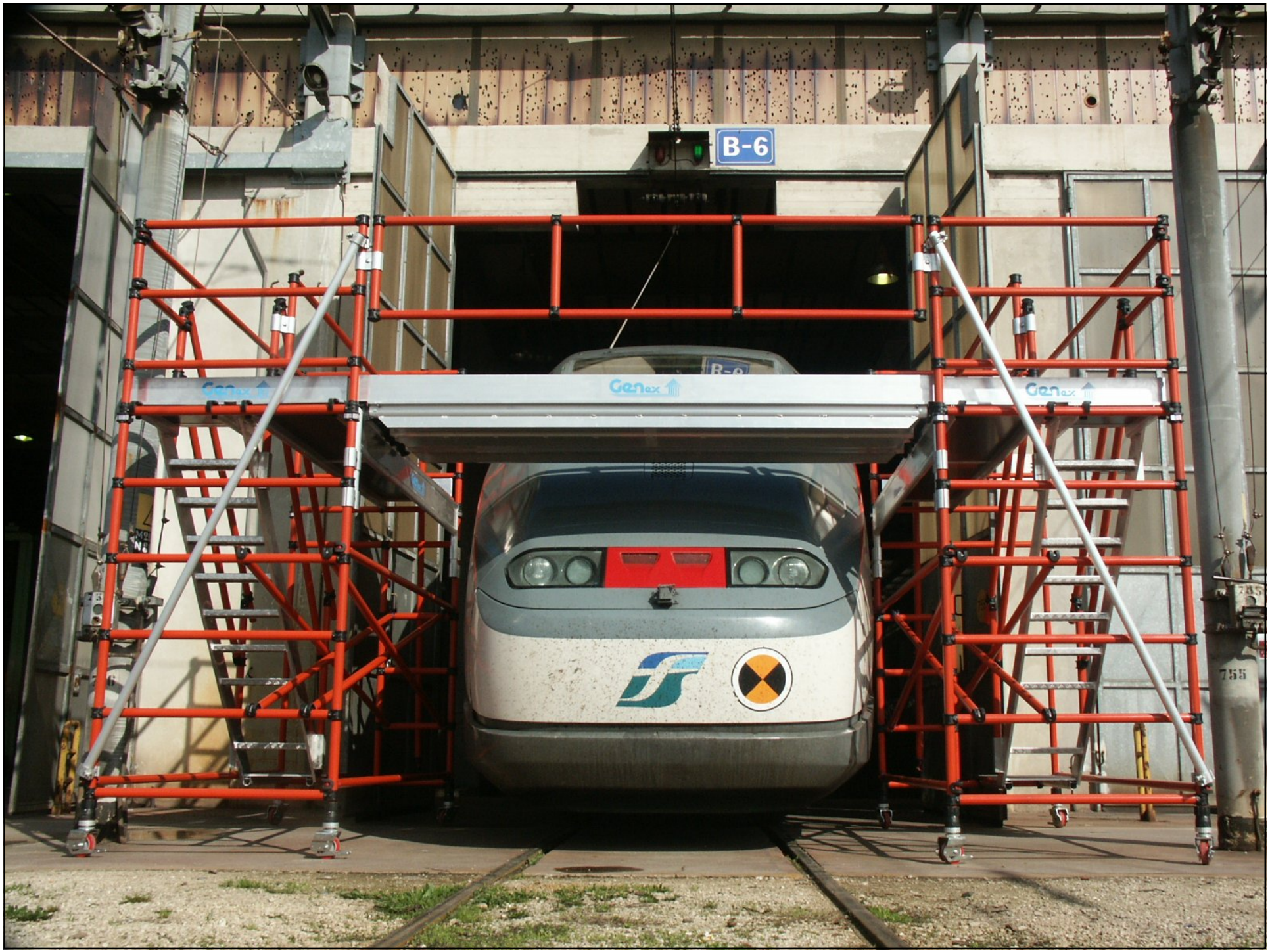
ATTENZIONE
AI CARICHI
SOSPESI


Genex
Genex


B-6
Genex
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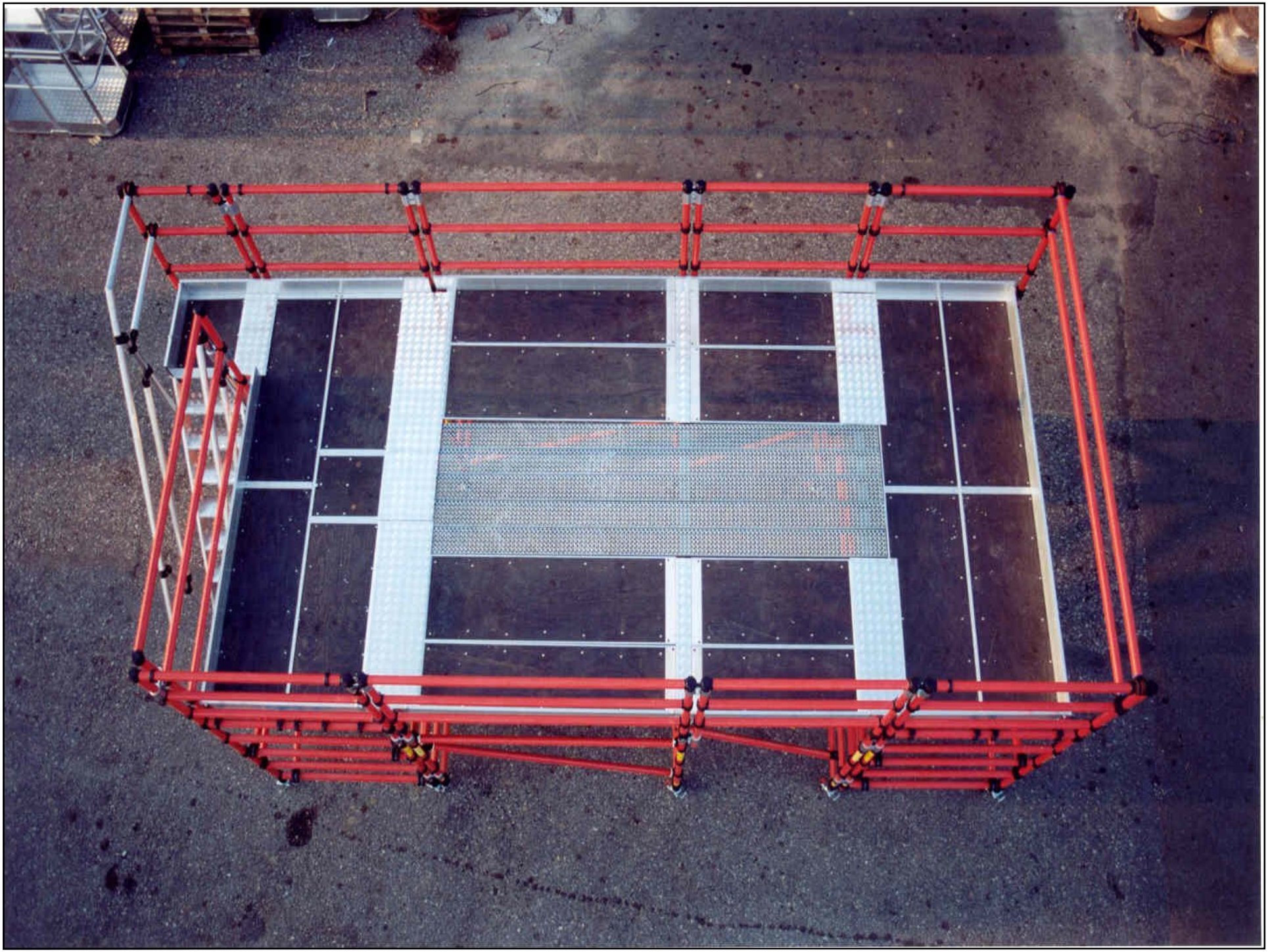
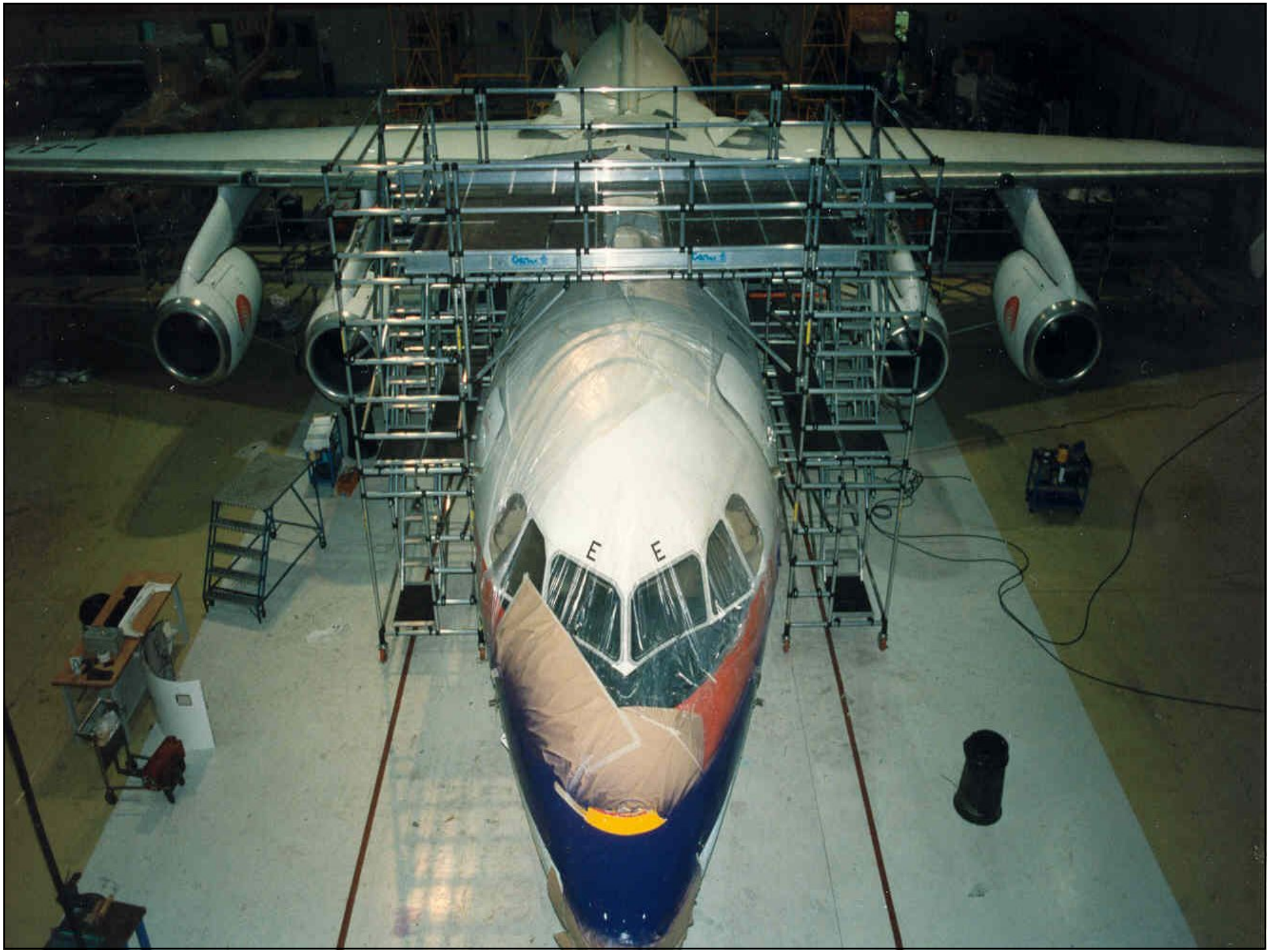
VIETATO
L'INGRESSO
a tutte le persone
non autorizzate
ATTENZION
CARRELLI
MOVIMENT


M29
N80
3D
756


Genex
TRENITALIA


2
EC Cisalpino Cinque Terre
Schaffhausen
Livorno C.le
Zürich HB



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TEAM DFS


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NO STEP OUTSIDE BLACK BORDER
NO STEP OUTSIDE BLACK BORDER


AERONAUTICA MILITARE
REPUBBLICA ITALIANA

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SERVIZIO AEREO
GUARDIA DI FINANZA
56
ZONA MILITARE
VIGILANZA
ARMATA


NH-500


101


PS 103


PS 103


T-322


VIGILI DEL FUOCO TRENTO
PERICOLO

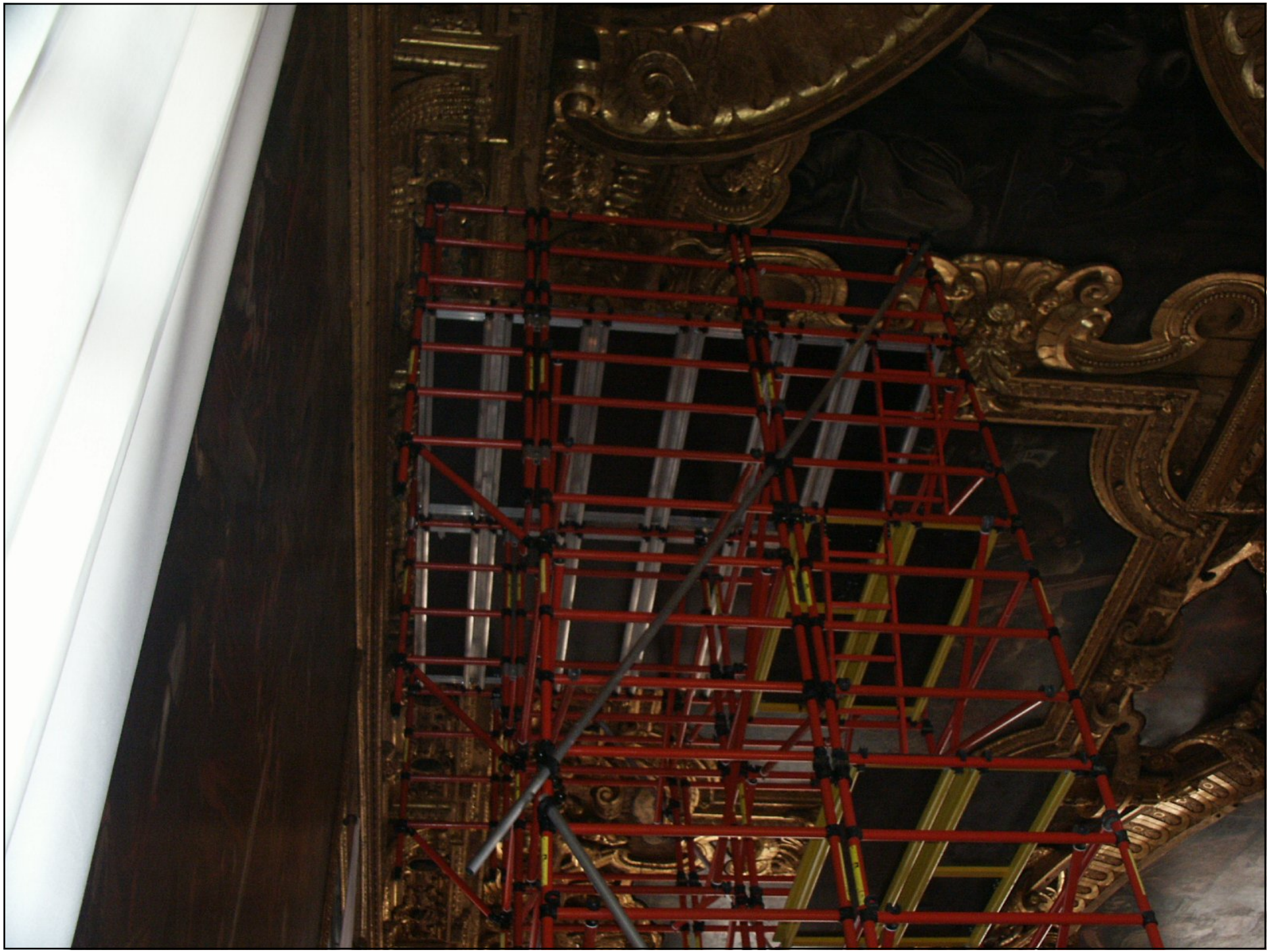

D-HB
POLIZEI


VIETATO


PRIM
POWERTYN 3 TONN
Prim
Prim
Beta

HIGH RESISTANCE

ACIDE THINNERS – PLASTERS
AND
LIGHT – EASY TO ASSEMBLE

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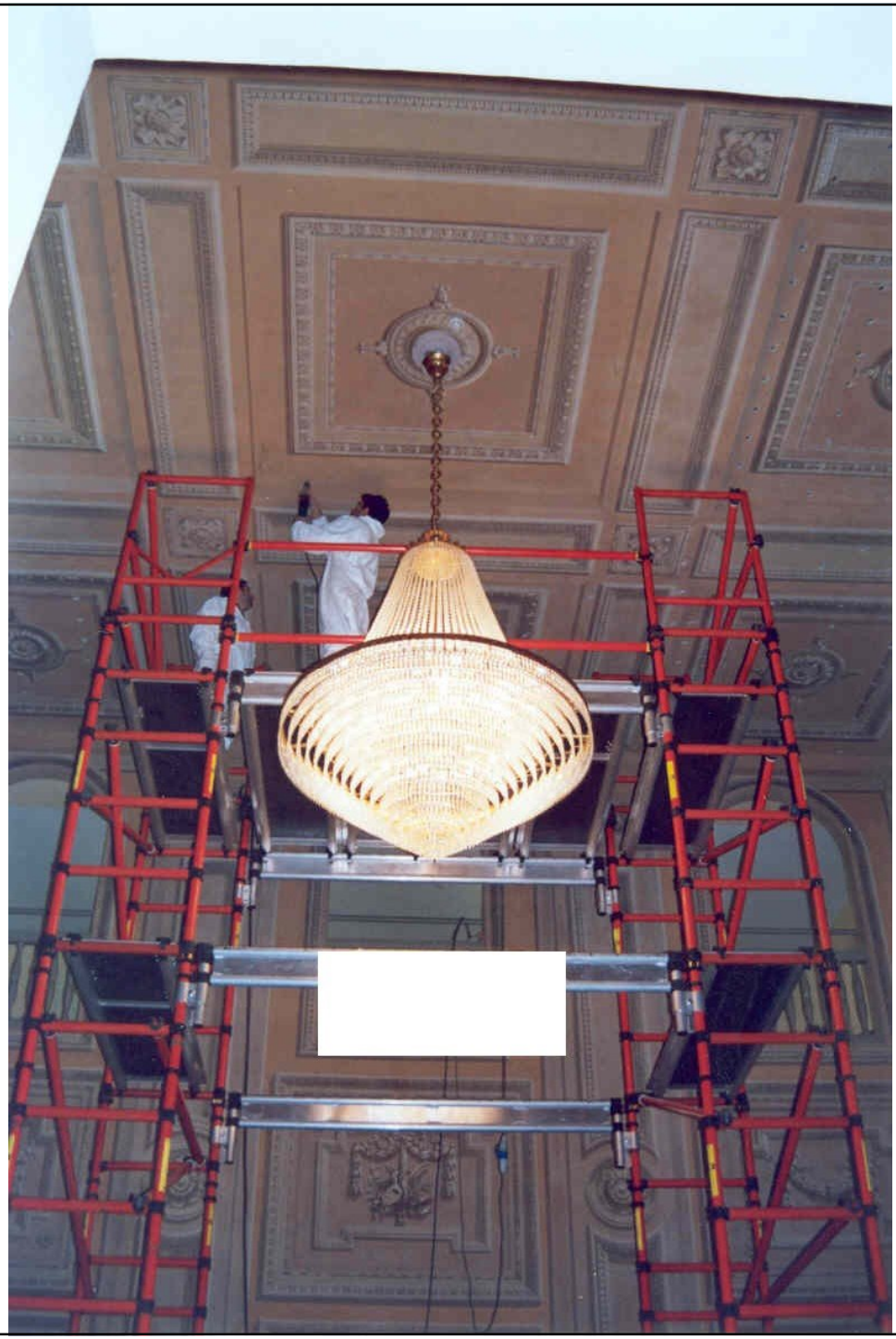


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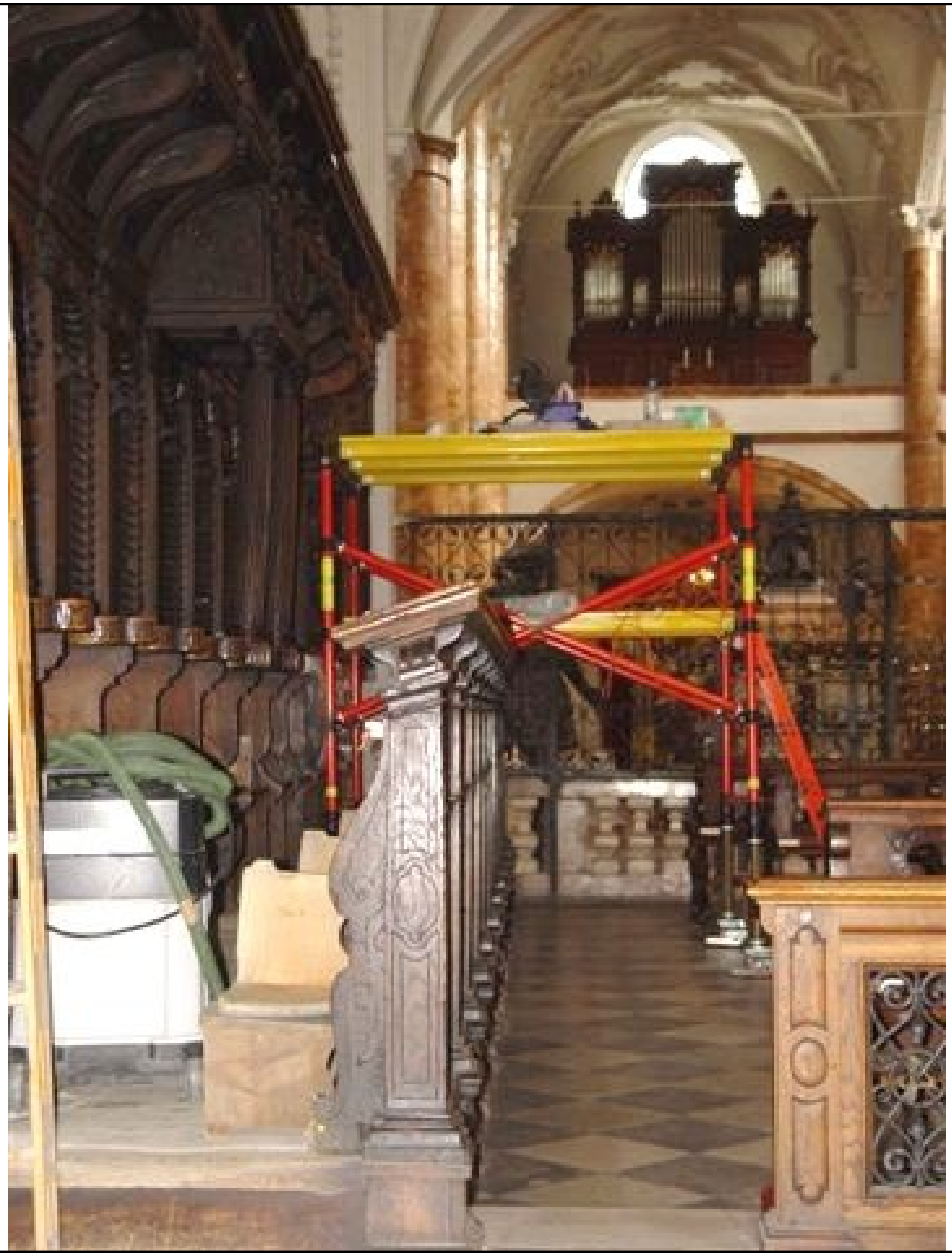
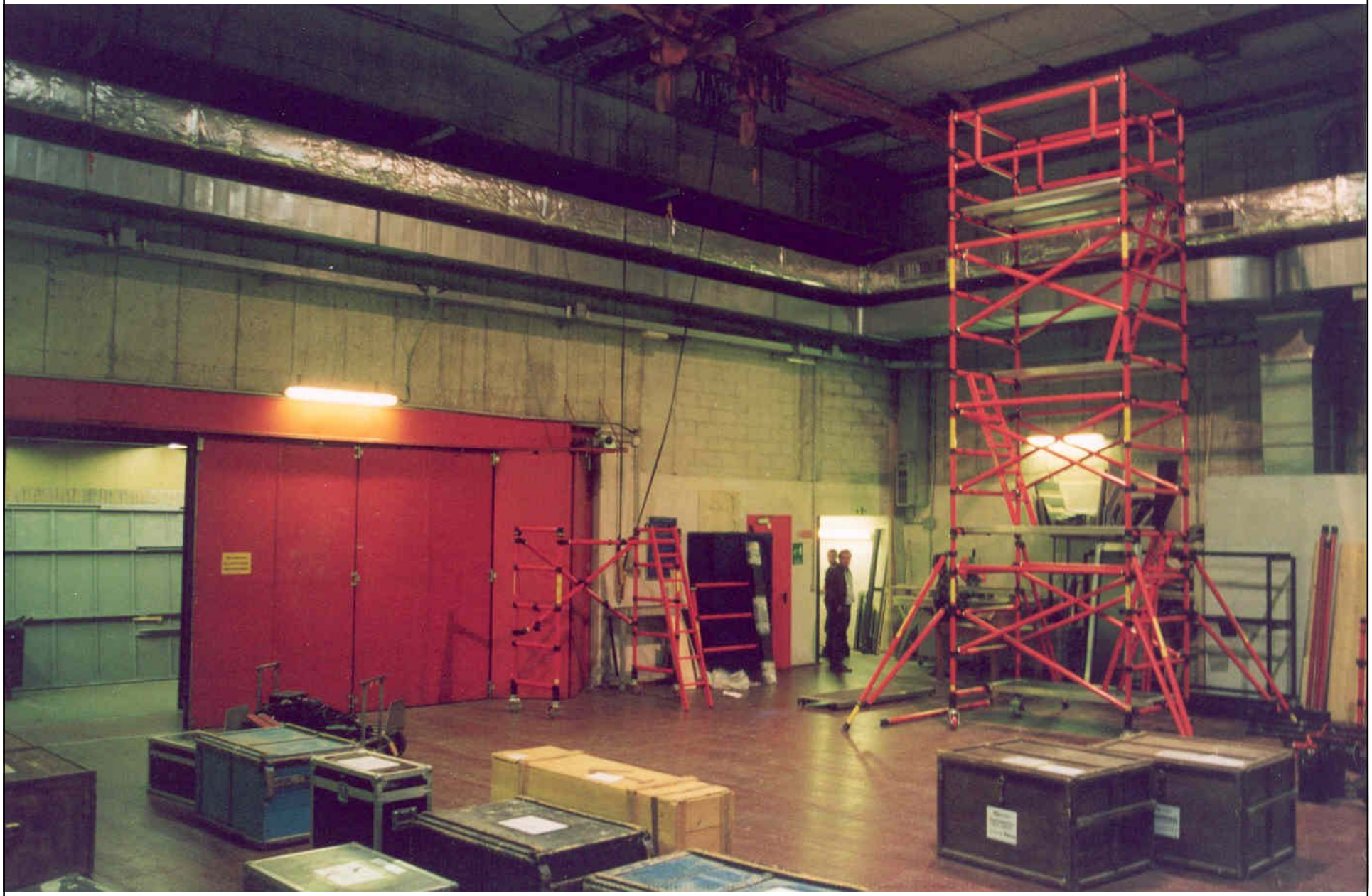



7.10.202


Geflex
DOLCI
Verona
B 13
FASSA BORTOLO
Terre per l'architettura

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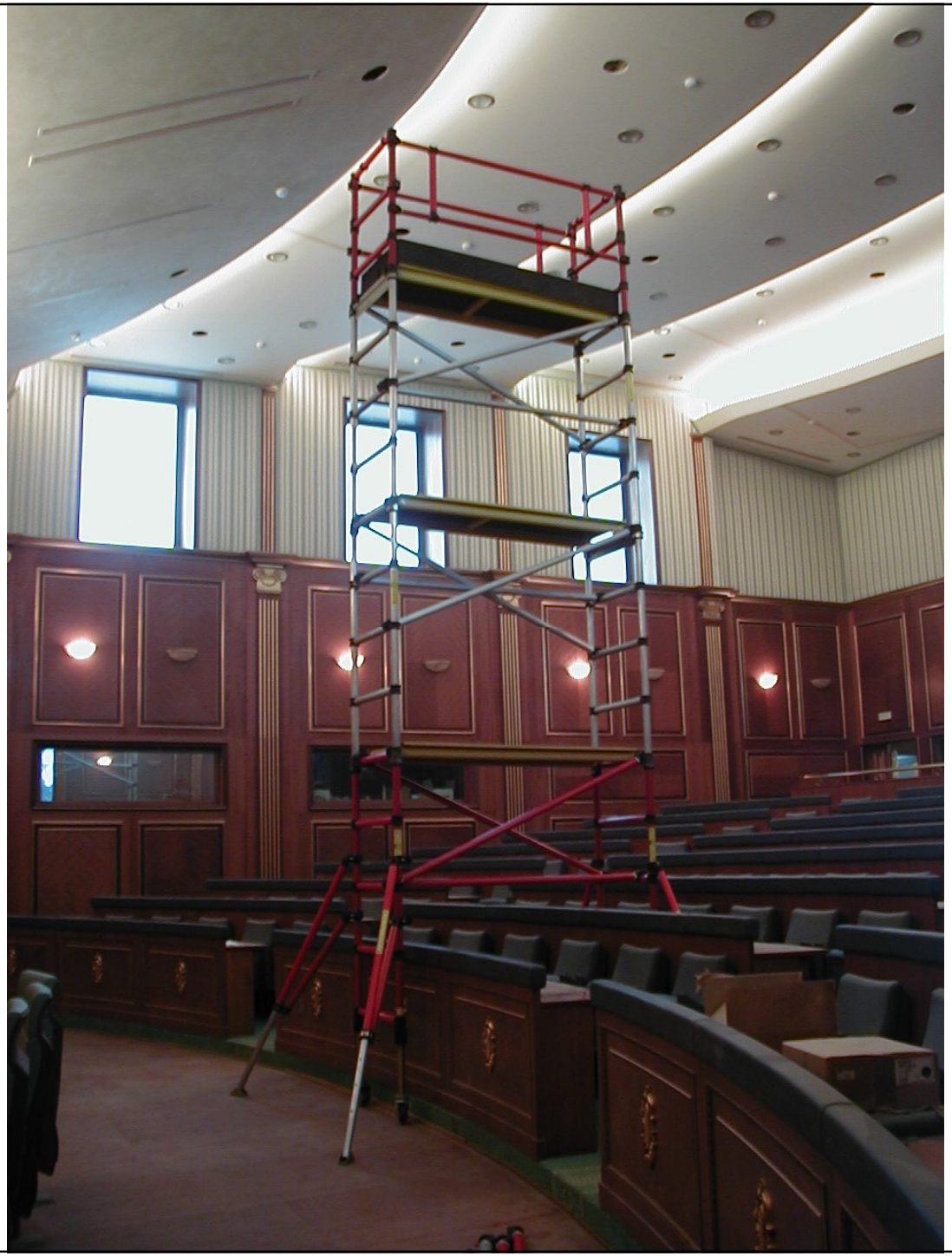

SPECIAL STANDS

EMI & RFI TRASPARENT