# INITIAL EVALUATION RESULTS

# **FAILED**

Life Safety Issues Do Exist









Prepared by:

FIRE ESCAPE ENGINEERS

NOT to be used as a Construction Control Document unless noted and Formal Repair Report attached.

This document expires 30 days from date of delivery to owner/agent via email or mail unless Design Professional or Other are retained for Engineer Oversight in writing.



Site Inspection Date

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## 1. Overall Structural







This is a four story building with a fire escape system on the (C) side that consists of platforms with stairs from fourth story to second and then ladder to grade.

It has all original hardware and rust causing rust jacking is present. This fire escape system has not been maintained. Life Safety Concerns do exist.

2. Overall Paint Poor/FAIL

100%

Full paint required.



This fire escape sys em does NOT have code issues to ciscuss with the AHJ.



3. Code



Fire Escapes older than 197° are assumed to be pointed with lead paint and therefore quired by the 3PA to be reported and repainted by EPA certified Fenovators that follow EPA guidelines and practice for lead paint. Fine specification occurrence, i.e. scrap lift, work it or weld to \$7,500 each at on. Violation are incurred when non-licensed verified work on a lead painted fine escape.

OVERALL STRUCTURAL EXCELLENT GOOD FARR	VE RALL PA INT	STRUCTURAL SUPPORTS	GRATING PLATE	Rails	STR NGERS	TREADS	LADDER	CAN TILEVER	CATWALK	CEMENT PADS & FOOTINGS EXCELLENT GOOD FAIR
POOR/FAIL LIFE SAFETY PRE-EXISTING MISSING N/A		X				X II II II				POOR/FAIL LIFE SAFETY PRE-EXISTING MISSING N/A



Site Inspection Date





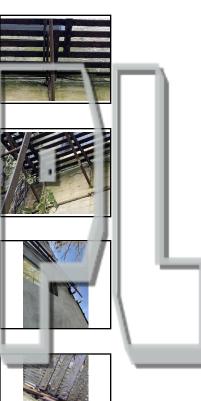




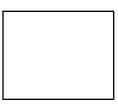












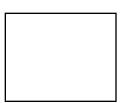


















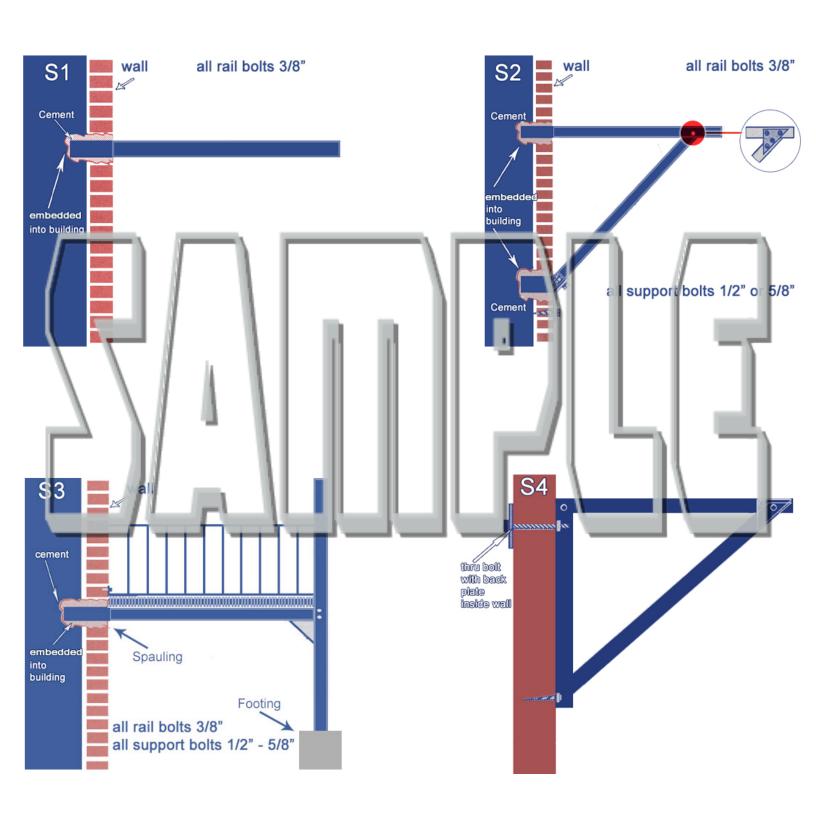






Site Inspection Date

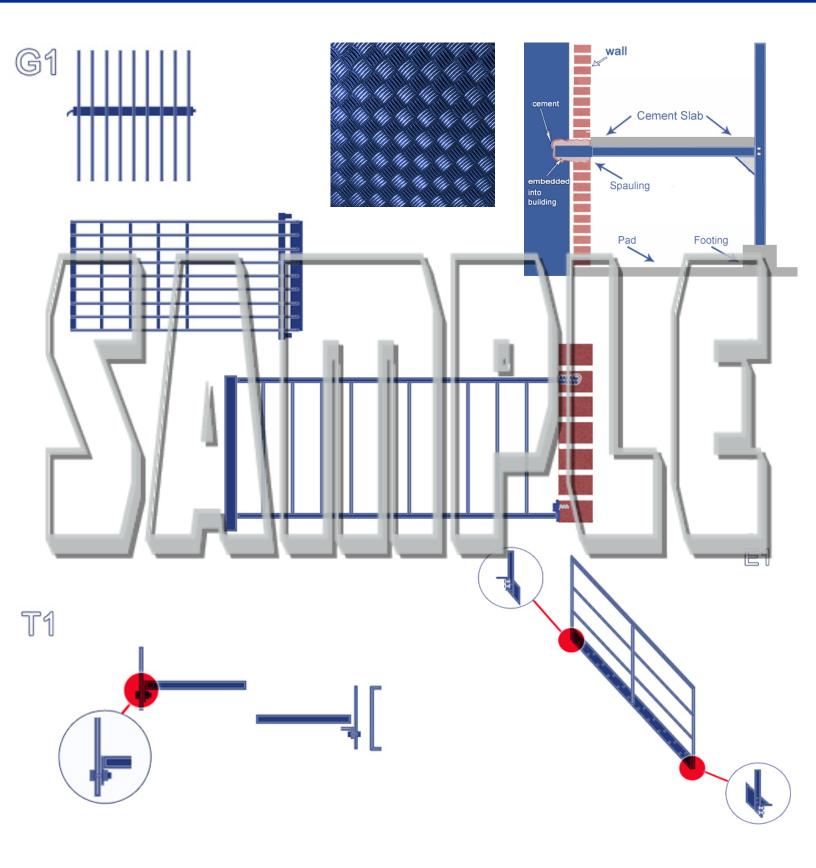
## STRUCTURAL SUPPORT COMPONENTS





Site Inspection Date

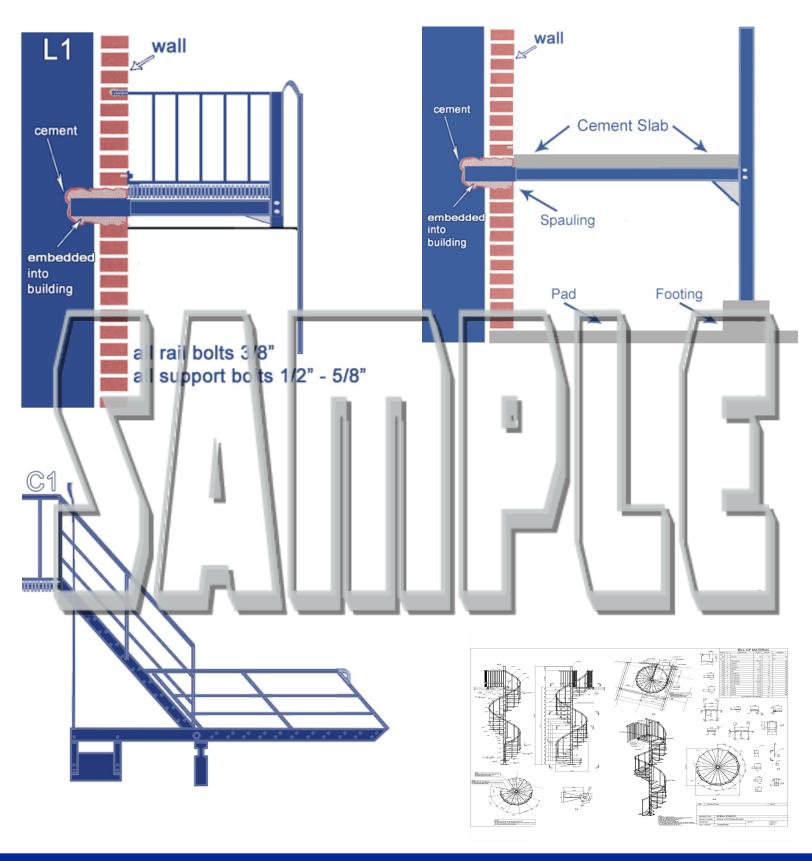
## **PLATFORM and STAIRS COMPONENTS**





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## FOOTINGS, PADS, LADDERS, CANTILEVER, CATWALKS and SPIRALS

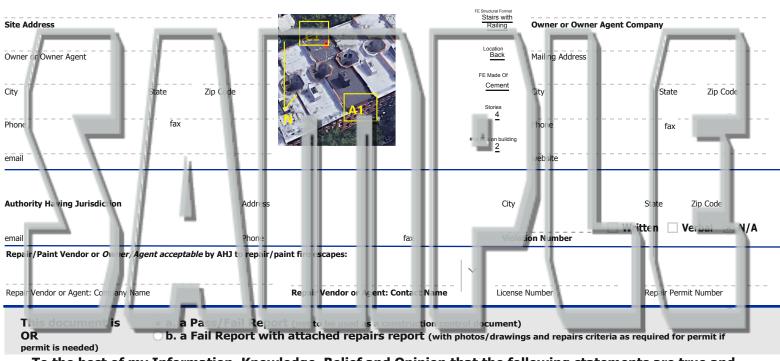




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# To the best of my Information, Knowledge, Belief and Opinion that the following statements are true and apply regarding this Fire Escape System as of the date of evaluation above.

Indicate inspection was done by:

a. a visual walk through of the Fire Escape System all accessible areas only. NO Load Test or destructive testing was performed. Safety hammer testing, scraping, poking, and chipping are all part of visual observation and resulting damage is owner's responsibility to repair or maintain.
 b. an Evaluation of the Fire Escape System from the ground, with or without the use of visual aid, due to NO ACCESS or UNSAFE STRUCTURE WITH LIFE SAFETY ISSUES.

## Fire Escape Passed? Failed

## **Life Safety** Life Safety Issues Do Exist

- The FE System is Certified by Load Test done by Engineering/Testing Agency at 100 lbs per sq foot.
- The FE System is Certified by Other Evidence of Strength (full or partial refurbishment or NEW) in lieu of load test.
- The FE System is Certified by Opinion Affidavit, accepted by AHJ as ready for use with opinion disclaimer of liability.
  Inspection/Evaluation determined the Fire Escape System FAILED. It is NOT structurally sound and/or painted.

Repairs: Application or notice to the fire code official is not required for ordinary repairs to structures, equipment or systems. Such repairs shall not include the cutting away of any wall, partition or portion thereof, the removal or change of any required means of egress, or rearrangement of parts of a structure affecting the egress requirements; nor shall any repairs include addition to, alteration of replacement or relocation of any standpipe, fire protection water supply, automatic sprinkler system, fire alarm system or other work affecting fire protection or life safety. IFC 1104.16.5.1 Fire escape stairs must be examined every 5 years by a design professional or others acceptable to the Authority Having Jurisdiction and inspection report must be submitted to the AHJ. IBC 1001.3.3 All fire escapes shall be examined and/or tested and certified every five years by a design professional or others acceptable who will then submit an affidavit city official. SAFETY CODE 101 7.2.8.6.2 The Authority Having Jurisdiction (AHJ) shall approve any fire escape by Load Test or Certification (other evidence of strength). ICC 104.7.2 Technical assistance. The fire code official is authorized to require the owner or agent to provide, without charge to the jurisdiction, a technical opinion and report. The opinion and report shall be prepared by a specialist or a fire safety specialty organization acceptable to the fire code official to analyze the fire escape and appurtenances situated thereon, to recommend necessary changes. The fire code official is authorized to require design submittals to be prepared by, and bear the stamp of, a registered design professional. OSHA 1910.37 Exit routes must be maintained during construction, repairs, alterations or provide alternative egress with equivalent level of safety. (permit issued if egress is certified or with egress scaffolding) All insurance companies: All final certifications to AHJ (load tested or other evidence of strength) must be submitted for acceptance by insurance company.





Site Inspection Date

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Paint Requirements - Surface rust, sealant and greasing	:			
1) The fire escape system is made of: Steel Metal (other) Wood Brick H. Depot Ladder Aluminum Steel & Wood Cement Mixed No FE on the Bld		alvanized	Painted P	ressure Trea other
2) This Fire Escape System is maintained/painted/stained and/or weatherproofed.		Yes	N/A	
Full paint needed		× No	Code	~
3) The owner is notified, by email or hand delivered, that EPA Lead Paint Rules apply because FE system was built before 1978.  On video/documentation		X Yes No	N/A Code	~
Structural Requirements - internal rust, rebolting, reinforcement and				
4) All welds PASS by visual observation only, unless noted: re-bolted, x ray or load tested are structurally sound having <b>NO</b> internal rust jacking, external surface rust and/or material deterioration.	PASS	× No	N/A Code	\ \
5) Overall - fire escape system is structurally sound having <b>NO</b> internal rust jacking, external surface rust and/or material deterioration.	PASS	Yes X No	N/A Code	
	_	/	$\overline{}$	<b>1</b> \
6) Footings/Piers are structurally sound having <b>NO</b> internal rust jacking, external surface rust and/or material deterioration - NO heaving or sinking	PASS	Yes No	X N/A Code	\_\~
7) Walls of accorded fire escape system - by visual observation only on date of avaluation - appear to be structurally sound having No material deterioration - 10 structural codes/ deterioration, deflection or building Water damage and needs inspection by others	PASS	Yes X No	Code	~
8) Supports into masonry wall are structurally sound having NO material determation - NO structural cracks/determation, rust jacking, deflection or spaulling Life Safety Concern	PAS	Yes X No	N/A Code	~
9) Thru bolts into wood structure or masonry walls are structurally sound having <b>NO</b> material deterioration - NO structural cracks/deterioration, rust jacking, deflection or wood rot	PASS	Yes No	X N/A Code	~
10) Platforms, Slats, Grating, Nesh, Cement, Cast Iron, Wood and Angle and or Steel Frame are structurally sound having to material deterioration - No internal rust jacking or external surface rust or wood rut	PASS	/es No	N/A Code	· ·
are structurally sound having <b>NO</b> material deterioration - <b>NO</b> internal rust jacking or external surface rust or wood rot	PASS	Yes X No	N/A Code	
Rust jacking present				~
12) Stair Treads: Plate, Slats, Grating & Bolts and/or Welds are structurally sound having <b>NO</b> material deterioration - <b>NO</b> internal rust jacking or external surface rust or wood rot Rust jacking present	PASS	Yes × No	N/A Code	~
13) Railings - on platforms, stairs & catwalks are structurally sound having <b>NO</b> material deterioration - <b>NO</b> internal rust jacking or external surface rust or wood rot Rust jacking present	PASS	Yes X No	N/A Code	~
14) Fixed Ladders to Roof and/or to Grade & Bolts and/or Welds are structurally sound having <b>NO</b> material deterioration - <b>NO</b> internal rust jacking or external surface rust or wood rot or spauling Routine Maintenance	PASS	Yes × No	N/A Code	~
	PASS	Yes No	X N/A Code	\



Case Number

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16) Cantilevers: Bolts and/or Welds, Weight Box, Release Mechanism and other components are structurally sound having <b>NO</b> material deterioration - <b>NO</b> internal rust jacking or external surface rust and are to grade/public way	Yes		I/A Code   ~
17) Catwalks & Bolts and/or Welds are structurally sound having <b>NO</b> material deterioration - <b>NO</b> internal rust jacking or external surface rust and lead to the fire escape and completes to grade	Yes No		I/A Code
Code Requirements - Fabrication, installation, modification and code upo	rades:		
18) All fabrication, installation and maintenance of fire escape is to code and met industry standards on date of installation.	× Yes		I/A Code   ~
19) There are <b>NO</b> pre-existing non-conforming issues requiring AHJ notification for approval.	X Yes		I/A Code   ~
20) All components: doors, windows, window guards, cages and gates are single action requiring no special knowledge, no keys and no obstruction and lead to public way	× Yes		I/A Code
21) All electrical power is 10 feet or more away from fire escape or covered to code.	× Yes		I/A Code
22) Overall the fire escape is not illuminated due to pre-existing code on date of install.  Local code requires light	X Yes		I/A Code   ~
23) Overall fire escape system has no interior or exterior obstructions such as a/c units, plants, bikes, trash etc. <b>PASS</b>	× Yes		I/A Code   ~
24) Overall fire escape system has no storage of flammables or code restricted items on, in or underneath. <b>PASS</b>	× Yes		I/A Code   ~
25) Other remarks or Pre-existing Non-Conforming Issues:	No 🗆	N/A	☐ Code
This is a four story building with a fire escape system on the (C) side to platforms with stairs from fourth story to second and then ladder to grate the stairs all original hardware and rust causing rust jacking is present. The system has not been maintained. Life Safety Concerns do exist.	ade.		



Site Inspection Date

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## Guidelines and Procedures for Fire Escape Systems As Per AHJ

STEPS TO CERT TICATION 1) Repair Report by Design Professional or Other Acceptable to AHJ for repair per nit if required 2) Permit by licensed vendor with EPA license 3) Progress and or final inspection by Design Professional or Other Acceptable AHJ 4) Submit final Certification by Load Test, Other Evidence of Strength, or Opinion / ffidavit 5) repeat every 5 years

#### TEPS O CER IFICATION

- 1) Repair Report by Design Professional or Other Acceptable to AHJ for repair permit if required
- 2) Permit by licensed vendor with EPA license
- A) Progress and or find inspection by Design Profess and or Other Acceptable to A ID
- Submit final Certification by Load Test, Other Evidence of Strength, an Obinion A fidavit
- 5 repeat every 5 years

2012 IFC 1104.16.5.1 Fire escape stairs must be examined every 5 years by a leasign professional or others acceptable to the Authority Having Jurisdiction and inspection resort must be submitted to the AHJ.

IF C 1001.3.3 All fire escales shall be examined and/or tested and certified every five years by a design professional or others acceptable who will then submit an affidavit of

ceptability of technologies, pro-is authorized to require the ow ical assistance. ICC 2015 104.7.2 Tech ermine the a ≆ ses, produc facilities, mater als and uses attending the design, operation or use of a building or premises e fire code officia and report. The opinion and harge to the jurisdict on, a technical opinical and shall analyze the fire safety properties eport e ii e code officia provide, without subject to inspection by or agent to and th ficial is authorized to r to be appur the stamp of, a registered design profe

NFPA LIFE SAFETY CODE 101 7.2.8.6.2 The Authority Having Jurisdiction (AHJ) shall approve any fire escape by Load Test or other evidence of strength (Certification).

OSHA 1910.37 Exit routes must be maintained during construction, repairs, alterations or provide alternative egress with equivalent level of safety acceptable to AHJ.

#### 2010 EPA 402(c)(3)

EPA's Lead Renovation, Repair and Painting Rule (RRP Rule) requires that firms performing renovation, repair, and painting projects that disturb lead-based paint in homes, child care facilities and pre-schools built before 1978 have their firm certified by EPA (or an EPA authorized state), use certified renovators who are trained by EPA-approved training providers and follow lead-safe work practices (Fines per violation by EPA \$37,500)

### Terms and FAOs

#### Fire Escape Certification OR Deficiency Report with Code Issues

This form is a certification of a fire escape system OR a report of failure to certify a fire escape system.

#### Indicate inspection was done by:

a. a visual walk through of the Fire Escape System all accessible areas only. NO Load Test or destructive testing was performed. Safety hammer testing, scraping, poking, and chipping are all part of visual observation and resulting damage is owner's responsibility to repair or maintain.

- Design Professional or Other performed a physical/visual walk through on each floor from roof to grade operating and or assessing every accessible component of FE system.

b. an Evaluation of the Fire Escape System from the ground, with or without the use of visual aid, due to NO ACCESS or UNSAFE STRUCTURE WITH LIFE SAFETY ISSUES. - This only applies to Fail Reports Only and NO PASS Reports. These can be issued without physical/visual observation walk through on each floor from roof to grade operating and or assessing every accessible component of FE system. The fire code official or AHJ is authorized to require documentation to be prepared by, and bear the stamp of, a registered design professional.

#### Load Testing

Under the national law (see above) fire escape systems must be certified by load test every 5 years to verify structural integrity at 100 lbs per square foot.

Load tests must be performed by a qualified testing agency/company acceptable to the AHJ (authority having jurisdiction).

A Fire Escape System is Load Tested only after passing and submitting a Pre Load Test Evaluation to AHJ confirming by report that FE System is structurally sound having NO material deterioration - NO structural cracks/deterioration, rust jacking, deflection or wood rot. AHJ may witness Load Test if requested. Upon completion of a Load Test a Certification by Load Test is submitted to AHJ. The fire code official or AHJ is authorized to require documentation to be prepared by, and bear the stamp of, a registered design professional.

There are two other methods of certifying a fire escape; other evidence of strength and opinion affidavit with disclaimer of liability.

#### Other Evidence of Strength

In lieu of a load test, the AHJ can accept other evidence of strength as certification of a fire escape system which requires a full evaluation of the fire escape system and a subsequent report with photos, drawings or contrasting markings detailing all code violations to be submitted to AHJ. Repairs permit and EPA Permit (if lead paint on fire escape) may then be required by AHJ as well as engineer's oversight of repairs. After partial, full refurbishment of the fire escape system or NEW fire escape system, a re-evaluation is required and a confidence test for certification under "other evidence of strength" submitted to

Other Evidence of Strength in Lieu of Load Test is achieved only when entire existing fire escape system has had all major structural connections, components, materials, and or welds rebolted, reinforced, repaired or entire system was replaced in Lieu of Load Test. Partial Load Testing can occur if only spot repairs are made and remaining original hardware, components and or material on FE System is Load Tested. The fire code official or AHJ is authorized to require documentation to be prepared by, and bear the stamp of, a registered design professional.

In lieu of a load test, the AHJ may accept an opinion affidavit with a disclaimer of liability as certification of a fire escape system from a qualified design professional or other stating that the fire escape system is ready for its intended use. An Opinion Evaluation is a visual observation of accessible areas only and non accessible areas are observed with visual aids/photos/video and or disclaimed. The Opinion Affidavit (if acceptable to AHJ ) in Lieu of Load Test and report shall be prepared by a qualified engineer, specialist, laboratory or fire safety specialty organization acceptable to the fire code official or AHJ and shall analyze the fire safety properties of the design, operation or use...(Pass/Fail Evaluation). The fire code official or AHJ is authorized to require documentation to be prepared by, and bear the stamp of, a registered design professional. (Repair Report for Permit if required)

Inspection/Evaluation determined the Fire Escape System FAILED. It is NOT structurally sound and/or painted.

An Opinion Evaluation determined, by visual observation of accessible areas only and non accessible areas were observed with visual aids/photos/video and or disclaimed, that the Design Professional and or other cannot proceed to Load Test and therefor cannot submit Certification and or an Opinion Affidavit. The fire code official or AHJ is authorized to require documentation to be prepared by, and bear the stamp of, a registered design professional.



Site Inspection Date

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REPAIR VENDOR REVIEW FORM Repair/Paint Vendor or Owner/Agent acceptable by AHJ to repair/paint	fire escapes:	<b>~</b>				
<b>TBD</b> Repair Vendor or Agent: Company Name	Repair Vendor or Agent: Contact Name	License Number	License Expires Date			
Āddress	Phone	fax	Repair Permit Number			
City State Zip Code	email		Repairs Completion Date			
Repair Co: EPA Renovator's License and Expire - Repair Co. Workmans Comp	Insurance and Expire Date	Repair Co. Liability Insurance and Expi	re Date			
Repair/Paint Vendor or Owner/Agent References:						
Reference Name	Phone	Remarks				
Reference Name	Phone	Remarks				
Reference Name	Phone	Remarks				

The Authority Having Jurisdiction (AHJ), the Design Professional (or other acceptable to AHJ) and the Owner/Agent of the Fire Escape System ALL require proof of the the following:

- 1) Business License
- 2) Construction License
- 4) Workman's Compensation Insurance
- 5) Liability Insurance

All permits, if required, have to be signed off by AHJ before release of the Certification of the Fire Escape System.

All work performed by owner/agent, non-licensed and or uninsured individuals may be rejected if not to industry standard. Additional fees and documentation may be required in these cases before release of the Certification of Fire Escape System otherwise others may certify at their own risk.

All parties must sign a disclaimer if no load test is performed or no other evidence of strength is achieved.

# Vendor Estimate with Costs Breakdown Total Amount Structural Repairs Amount Paint Amount Engineer Oversight Amount Load Test Amount Load Test Amount

A formal proposal contract will replace this form of verbal acceptance of costs, terms and conditions.





Site Inspection Date

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## **ALL APPLICABLE FIRE ESCAPE CODES:**

**IFC 1104.16.5.1** Fire escape stairs must be examined every 5 years by a design professional or others acceptable to the Authority Having Jurisdiction and inspection report must be submitted to the AHJ. **IBC 1001.3.3** All fire escapes shall be examined and/or tested and certified every five years by a design professional or others acceptable who will then submit an affidavit city official. **NFPA LIFE SAFETY CODE 101 7.2.8.6.2** The Authority Having Jurisdiction (AHJ) shall approve any fire escape by Load Test or Certification (other evidence of strength). **ICC 104.7.2** Technical assistance. (Other) The fire code official is authorized to require the owner or agent to provide... a technical opinion and report. The opinion and report shall be prepared by a specialist or a fire safety specialty organization acceptable to the fire code official to analyze the fire escape and appurtenances situated thereon... The fire code official is also authorized to require a design professional seal.

Design Company or Other Company Name	Design Professional or Other Name	License Number	License Expires Date
Address	Phone	fax	Site Inspection Date
	email		Case ID

All certifications must be submitted to AHJ and Insurance Company for written acceptance.

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Owi	ner / Owner Representa	ive					Qualified Exterior Wall Inspector (QEWI)					
(A)		hereby state that I am the owner/owner's representative of the premises refer the attached report. Furthermore, I have received and read a copy of the atta										
	report and I am aware or recommended time fram	e for same.	•				Signature	e		Date		
(B)	have been corrected/rep	at all items noted as SWARMP conditions in the previous cycle's report corrected/repaired; or this report must be rated as Unsafe as per tive Code section §28-302.1, if applicable.					I hereby state that the Owner./Owner's Representative has authorized me to submit this report. Furthermore, I hereby state that all statements are correct and complete					
Nan	Name			Signature				to the best of my knowledge. A copy of this report has been given to the owner.				
Rela	ationship to owner		_ Phone _				P.E. / R.A. Seal (apply NYS seal, then sign and date)					
§28- false	statement in any certificate,	Date						to make a material ed under the provi-				

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