	Deck Evalu	lation Check	<u>klist</u>	
Report Date:			Square footage:	_
			Original Value:	
I. Stairs				
A. Not Applicable				
_	risible signs of cracks, de	-	_	
C. Stairway width D. Riser Height:		_ (Hint: Residential ded E. Tread Depth:	ck stairway width shall not be < 36")	
1. Is someth	ing restricting the passage	of a 4" sphere betwe	een the risers? $\ \square$ Yes $\ \square$ No	
F. Are there guard	ls and/or handrails on tl	ne stairway? 🔲 🕦	∕es □ No	
1a. Is the ha	ndrail height 34"-38"? \Box	Yes 🗆 No	1b. Guard height (if separate)?	
2. Is the han	drail graspable? 🗌 Yes	□ No		
3. Is the ope	ning between the baluster	rs less than 4¾"?	No □ Yes	
on the guard	method to safely support Irail?	needs attention	pplied in any direction) and the deflectings and stringer, etc.)	ction
G. Stringer:	Solid Notched			
Hint: Solid s	tringers are permitted to h	ave a total run of 13	'-3" between landings or supports.	
	ed stringers are limited to	6' between supports	(based on AWC DCA6).	
•	veen the stringers? of the stairs?	 Total run of the	stairs?	
Hint: Stairs o	are permitted to have a tot apporting/connecting the	al vertical rise of 12'	between landings.	
			onal is recommended as the connection	n
detail from s	tair stringers to the deck s Hardware	tructure is a critical s	structural connection.	
☐ Hardwa		\square Blocking	\square Nails, only \square Other	
		The state of the s		
4. If the strin	igers are notched, does th	e triangular opening	formed by the riser,	
tread & bott	om rail of the guard perm	it the passage of a 6"	sphere? 🗌 No 🗆 Yes	
H. Is there a means	s of artificial illumination f	or the stairs? \Box Y	es 🗌 No	
I. Are there any vis	ible signs of red rust on th	e hardware (fastene	rs or connectors)? \square No \square Yes	
If yes, where	1?			
J. If connectors are	used, are all the holes fill	ed? 🗌 Yes 🗎 No	If no, where?	
K. Stair landing min	. 36" in direction of travel	? □ Yes □ No	Туре	

NADRA.org

II. Footings/Deck Supports and Posts/Columns

A. Footing/Deck Support-type? Unable to Determine U Pier, only U Pad or Spread
☐ No footing/Improper footing ☐ Other (describe):
1. Size: Hint: Must be at least a 12"x12" or equivalent.
2. Depth/Thickness: Unable to Determine
3. Is it at least 12" below undisturbed ground \Box Yes \Box No \Box Unable to determine
B. Post size?
C. Post Height?
Hint: Maximum post height is determined by the tributary load the post will carry. See AWC DCA6 (6x6) or IRC-2018, Table R507.4 for post height maximums.
D. Any visible signs of decay, cracks or post corrosion (if metal)?
Hint: Decay or corrosion may appear just below the surface to ground interface. Cracks and decay may appear at the corner of the top of a notched post. E. What is connecting the post to the footing?
☐ Post base hardware ☐ Unable to determine ☐ Nothing
Hint: Look for hardware that connects to the footing to help resist the deck from moving and has a 1" standoff base plate to help prevent decay at the post end. F. What is connecting the post to the beam?
☐ Post cap hardware ☐ Notched ☐ Other:
Hint: Notching a 4x4 post for a double 2x is not permitted. Notching a 6x6 post to let-in a triple 2x is not permitted.
1. Has a post-to-beam connector been bent or improperly modified? $\ \Box$ No $\ \Box$ Yes
Hint: Bending steel in the field may cause fractures at the bend line. Fractured steel will not carry the load and must be replaced.
2. Are the beams alongside the post? $\ \square$ No $\ \square$ Yes
If yes, is the beam attached with a metal connector to provide bearing? $\ \Box$ Yes $\ \Box$ No
Hint: The beams alongside the post attached by bolts, lag screws or nails are prohibited by AWC DCA 6 and does not provide proper bearing for a beam.
G. Is diagonal bracing provided on the posts and beams? $\ \square$ Yes $\ \square$ No
Hint: Required by AWC DCA 6 at the corner posts that are greater than 2' in height.
 If the deck is not attached to the building, what method is used for lateral support? Describe:
H. Are there any visible signs of red rust on the hardware (fasteners or connectors)?
If yes, where?
I. If connectors are used, are all the holes filled with the proper fasteners? Yes No
If no, where?
Hint: Slotted and Phillips head screws have never been appropriate for connectors.

NADRA.org

III. Beams and Joists

A. Are multiple lumber members fastened together to act as a single unit? $\ \square$ Yes $\ \square$ No			
Spacing: Fastener type (nails, bolts, screws):			
Hint: If bolts are used, there should be washers between the bolt head and nuts and the wood. Drilled holes should be no larger than 1/16" over the size of the bolt.			
B. Are all beam splices occurring over a support with at least 1½" of bearing? $\ \square$ Yes $\ \square$ No			
If no, describe location; (Needs attention)			
C. Are there connections where the joist bears on top of the beam? $\ \square$ Yes $\ \square$ No			
Type of connection:			
D. Joist: Size: Spacing: Span:			
☐ Joist Hangers ☐ Ledger strips ☐ Nothing (Needs attention)			
Hint: Ledger strips must be nailed directly underneath the joist with 3 or 4 nails (depending on the standard), concentrically placed right under the joist. (2015/2018 IRC-not permitted)			
1. Have any of the joist hangers been bent or modified? $\ \square$ No $\ \square$ Yes			
Hint: Bending steel in the field may cause fractures at the bend line. Fractured steel will not carry the load and must be replaced.			
2. Does the hanger have "double-shear" fastening? See Figure B. $\ \square$ Yes $\ \square$ No			
a. If the hanger has "double-shear" fastening, was the correct (full length) fastener used			
for the joist-to-header fastener? \square Yes \square No (Needs attention)			
Hint: Full length nail = 0.148 x 3" or 0.162 x 3½" HDG or 316 stainless steel ring shank nail			
or equivalent "approved" structural screws			
Incorrect: Short 1½ or 1¼" Correct: Full Length Nail			
F. What is providing lateral support for the deck diaphragm?			
\square Lateral load hardware \square Freestanding deck (blocking, bracing, etc.)			
☐ Nothing ☐ Unknown/Unable to Determine (Needs additional analysis)			
Hint: Nails in joist hangers and ledger strips are subject to withdraw from the lateral forces and do not perform well in withdraw. Therefore, the lateral forces must be addressed by some other means.			
G. Are there any visible signs of red rust on the hardware (fasteners/connectors)? $\ \Box$ No $\ \Box$ Yes			
If yes, where?			
H. If connectors are used, are all the holes filled with the proper fasteners? \Box Yes \Box No			
If no, where?			
Hint: Slotted and Phillips head screws have never been appropriate for connectors.			
I. Is there any decay of the wood?			

	Deck Evaluation Checklist
	NADRA.org
IV.	Ledger
	A. Not applicable: Free Standing Deck/Non-Ledger Attached \Box
	B. Not acceptable: Ledger attached to Stucco, Brick or Masonry veneer, or over Siding (Circle one)
	C. Ledger attached to;
	☐ Unable to Determine
	 a. Cannot gain access to the rim joist area due to attached ceiling (or other obstacles). b. Deck ledger is attached to structural sheathing only (typically 15/32" OSB of plywood covering a floor truss), to the web of an I-joist only, or to a cantilever.
	Note: If a or b, it is not possible to evaluate the deck ledger connection. A design professional is recommended to evaluate the deck ledger connection that is known to be critical to deck safety.
	☐ Wood Rim Joist - Type;
	Fastener type; Lag Screws Machine Bolts Other
	Fastener diameter:
	Fastener spacing: Staggered: Staggered: No
	Hint: Nails, alone and carriage bolts are not acceptable. Check if seen $\; o\;$ $\;$
	Hint: Washers are required under the head and nuts of all bolts. \Box Concrete
	☐ CMU (Concrete Masonry Unit-e.g. block) (Needs additional analysis)
	Fastener type; Unable to Determine Other
	Fastener spacing: Staggered: Yes No Hint: Concrete & Masonry screws are not acceptable for permanent, exterior applications Exception: 304 or 316 stainless steel concrete screws
	1. Are there any visible signs of red rust on the fasteners? $\ \square$ No $\ \square$ Yes
	If yes, where?
	D. Is flashing installed above the ledger and behind the exterior cladding, shingle fashion, and installed in
	such a manner as to prevent entry of water into the building?

If yes, where?				
 D. Is flashing installed above the ledger and behind the exterior cladding, shingle fashion, and installed amount as to prevent entry of water into the building? Yes \(\subseteq \) No \(\subseteq \) No flashing can be seen 				
1. Is there any decay behind the ledger? $\ \square$ No $\ \square$ Yes $\ \square$ Cannot identify				
Notes;				

NADRA.org

V.	Deck Boards/Deck Surface		
	A. What type of decking? See below. Describe type and condition. Unable to Determine	•	
	☐ Wood: Hardwood: ☐ Softwood: ☐ Species:		
	☐ Wood Plastic Composite Capped: ☐ Uncapped: ☐		
	Notes:		
	□ PVC □ Type:		
	☐ Other-type:		
	Notes:		
	Deck Board Color:		
	If yes, describe:		
	C. Fastener type? Nails Screws Hidden Fasteners		
	1. If hidden fasteners are used, what lateral support has been provided?		
	☐ Cross Bracing ☐ Angled Bracing ☐ Blocking ☐ Other:		
	2. Are any nails or screws exposed or breaking? \square No \square Yes-explain		
	D. Are there any visible signs of red rust on the fasteners? $\ \square$ No $\ \square$ Yes		
	If yes, where?		
VI.	Handrail Assemblies and Guards		
	Hint: A guard is required when the walking surface is more than 30 inches above grade.		
	Hint: Measurement is taken up to 36" away from the deck or walking surface.		
	A. What is the guard height? 36" 42" Other:		
	Hint: Must not be less than 36" for most residential (except CA) and 42" for most commercial guards. a. Does the deck guardrail have a handrail? Yes No		
	B. What is the connection between the top rail of the guard and the post?		
	☐ Nails: ☐ Screws: ☐ Unable to Determine ☐ No Posts		
	Hint: Posts and proper fasteners are needed to transfer the load into the deck framing.		
	C. Is there a "shear" connection between the posts and the frame of the deck? $\ \Box$ Yes $\ \Box$ No		
	☐ Bolts, only ☐ Lag Screws, only ☐ Holdown ☐ Other:		
	Holdown "Shear" Connection		
	Hint: Maximum deflection for a guardrail system at a 36" height = 2 $\frac{1}{2}$ " or h/12		
	Hint: Bolts or lag screws, only, failed to meet the load and deflection criteria.		
	Hint: Notched posts failed to meet the load and deflection standards. D. Is the opening between the balusters less than 4"? \Box Yes \Box No		
	E. Is there any visible sign of decay, deterioration or cracking? $\ \Box$ No $\ \Box$ Yes		
	F. Are there any visible signs of corrosion or rust in the hardware? \Box No \Box Yes	_	

NADRA.org

V	11.	M	iscel	llar	eoi	ıs
_						43

VII. Miscellaneous		
Additional Comments: (e.g. Special Features such as a Hot Tub, Condition of Deck Lighting, Trim Appearance, etc.)		
A. Does the deck have any floor lighting or other lighting? \square No \square Yes		
Notes:		
B. Does the deck have a hot tub? \square No \square Yes		
C. Does the deck have a bump-out or some area for a grill or area to barbeque? $\ \square$ No $\ \square$ Yes		
D. Does the deck have any under-deck finishing? $\ \square$ No $\ \square$ Yes		
Notes:		
Revised 10/31/18		



North American Deck and Railing Association PO Box 829 • Quakertown, PA 18951 • 215.679.4884 • info@NADRA.org

Deck Evaluation Form: http://www.nadra.org

Deck Safety: http://www.nadra.org/consumers/deck_safety_month.html Deck For A Soldier: http://www.nadra.org/consumers/D4S/Welcome.html

ALL INFORMATION PROVIDED SHOULD BE EVALUATED BY A QUALIFIED PROFESSIONAL AND APPROVED BY THE BUILDING DEPARTMENT. EVALUATION OF THE DECK USING THIS INFORMATION DOES NOT COMPLETELY CONSTITUTE A CODE COMPLIANT DECK. IT IS INTENDED TO ASSIST BUILDERS AND INSPECTORS IN THE DECK EVALUATION PROCESS.

Copyright 2018 NADRA. Not for use in educational training by anyone other than a NADRA approved instructor.