Inspectable Construction Materials Checklist

Organization Name:	
Project Name:	
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All items listed as "inspectable" may be procured locally using allotted random procurement percentages. All items that are "non-inspectable" must be procured in the US and securely shipped to the construction site.

Sand	_ Yes ∟ No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Cement	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Aggregate	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Gravel	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Rebar	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Rebar ties & mesh	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
		B. Masonry
*Note:		
1. Precast is not acce	eptable if created o	ff site unless constructed in the US and shipped secure. If a CST
inspects the precast	as it is made, it is	acceptable.
2. Stonework for the	façade needs only	visual inspection. Internal stone work must undergo a 3% random
destruction test.		
3. Scaffolding should	d be inspected inte	ernally before allowed on site.
DESCRIPTION	INSPECTABLE	INSPECTION METHOD
Cement blocks &	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
brick		
Precast concrete	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Stone Work	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Forms	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Scaffolding/work	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
platforms		
		C. Tools and Fasteners
* Note:		
Personal tool boxes will be examined when first brought on site, and randomly thereafter. They will be		
locked on the site when not in use and workers will not be allowed to carry them on and off the site.		
DESCRIPTION	<u>INSPECTABLE</u>	INSPECTION METHOD
Γool boxes	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Welding rod & solder	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Fasteners	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Hilti fasteners &	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
charges		

A. Foundation Materials

INSPECTION METHOD

Metal Detector

Destructive Test

Visual [

1. Aggregate cement, sand and gravel should be poured through an appropriate sized mesh, and a magnet

2. At least 10% of the rebar should be examined for internal voids using ultrasonic testing. If the ultrasonic

Ultrasonic

should be utilized to occasionally check for inappropriate metallic particles.

X-Ray

tester is unavailable, then destructive testing may be used.

No

INSPECTABLE

Yes

* Note:

Water

DESCRIPTION

D. Metal Items			
*Note:			
Visual inspection applies only to common, commercially available items. Items requiring special fabrication			
<u> </u>		ent during fabrication.	
<u>DESCRIPTION</u>	INSPECTABLE	<u>INSPECTION METHOD</u>	
Structural Steel	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
Metal Decking	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
Metal Fabrications	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
Metal Stairs	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
		E. Carpentry and Furniture	
*Note:			
1. Finished and roug	gh carpentry items	s constructed on site will be monitored by CSTs.	
2. Furniture having	built in electrical	devices or lamps must be disassembled and inspected separately	
<u>DESCRIPTION</u>	INSPECTABLE	INSPECTION METHOD	
Lumber	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
Rough & finished	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
carpentry			
Furniture w/out	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
electrical raceway			
		_	
		F. Thermal Moisture Protection	
*Note:			
Metallic membranes preferred as they offer some degree of RF attenuation.			
DESCRIPTION	<u>INSPECTABLE</u>	INSPECTION METHOD	
Water-proof	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
membrane			
Water-proof	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
membrane (Metallic)			
Bituminous water	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
proofing			
Thermal Insulation	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
Spray on Fire	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test	
Proofing			

G. Doors and Windows (excluding locks)		
DESCRIPTION	INSPECTABLE	INSPECTION METHOD
Metal Doors/Frames	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Wood Doors/Frames	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Metal	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Windows/Frames		
Wood	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Windows/Frames		
Vault Doors/Frames	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Glazing	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
		H. Finishes
* Note:		
Bundles of tiles will	be unpacked and	no more than two tiles at a time will be examined.
DESCRIPTION	<u>INSPECTABLE</u>	INSPECTION METHOD
Plaster Lath	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Plaster	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Gypsum Wallboard	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Raised Flooring	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Carpet and Curtains	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Paint Varnishes	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Adhesives	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Wall Coverings	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Ceramic Tile	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Acoustical Tile	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
	I.	Plumbing and Mechanical Systems
* Note:		
Can be inspected if	no tape, insulatior	n and/or other finishes have been used.
DESCRIPTION	<u>INSPECTABLE</u>	INSPECTION METHOD
Plumbing (Metal)	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Plumbing (plastic)	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Plumbing fixtures	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Valves	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Fan Coil Units	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Site Fabricated	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Ducts		
Prefabricated Ducts	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test

J. Electrical Items		
<u>DESCRIPTION</u>	<u>INSPECTABLE</u>	INSPECTION METHOD
Wire	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Conduit	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Junction boxes	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Outlets w/out built	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
ins		
Outlets w/built ins	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Switches, Breakers	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Incandescent light fixtures	☐ Yes ☐ No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Florescent light	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
fixtures		
Light bulbs (tubes)	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Circuit breaker	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
boards		
Electrical	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
component boards		
Transformers	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Transient	☐ Yes ☐ No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
suppressor		
Voltage regulators	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Generators	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Power line	∐ Yes ∐ No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
conditioners		
Switch gears	∐ Yes ∐ No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Telephone systems	∐ Yes ∐ No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
		K. Other Miscellaneous
<u>DESCRIPTION</u>	INSPECTABLE	<u>INSPECTION METHOD</u>
Chalk & tack boards	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Fire extinguishers	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Fire alarm systems	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Fire alarm sensors	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Sprinkler/gas heads	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Kitchen appliances	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
Electrical dark room	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
equipment		
Security alarm	∐ Yes ∐ No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
systems		
Acoustical	∐ Yes ∐ No	X-Ray Ultrasonic Visual Metal Detector Destructive Test
insulation		
Locks	Yes No	X-Ray Ultrasonic Visual Metal Detector Destructive Test