

Visual Property Inspection

237A Leslie St Toronto, ON M4M 3C8

Prepared for:

The Weir Team

Phone No.: (416) 465-4545



Inspected by:

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Report Commentary



Date: 29-Apr-2016

237A Leslie St, Toronto, ON M4M 3C8

This summary is not the entire report. The complete report may include additional information of concern to the client. It is recommended that the client read the entire report.

1.0 Property and Site

1.1 Front Porch Rail

Install handrail to promote safety.

2.0 Roof Structure

2.1 Main Roof

Architectural shingles are in good condition. Typical life expectancy of this type of shingle is 25 to 30 years.

3.0 Electrical Service

3.1 Entrance Cable

Consult utility to correct drip loop to control water run off

3.2 Service Size

100 amp service, copper wire.

4.0 Heating

4.1 Heating System

High efficiency furnace is 2 years old and functioning as intended. Typical life expectancy is 20 years.

4.2 AC

AC unit is 2 years old. Typical life expectancy is 15 years.

Testing A/C unit during low outdoor temperatures will cause system failure. Determine function during cooling season.

5.0 Plumbing Components

5.1 Hot Water Tank

Rental Electric hot water tank is 6 years old and functioning as intended. Typical life expectancy is 15 years.

6.0 Interior Living Spaces

6.1 Window

All windows have been replaced recently and are in good condition.



	Date: 29	-Apr-2016		237A Leslie St, Toronto, ON M4M 3C8
				Property and Site
Limitations Vegetation/Tr Snow/Ice Cov AGE OF HOME	/er	□Vines	Debris/Obstruc	tion
Conditions Sunny/Mostly Snow/Ice Cor Approx. Temper	nditions	✓ Cloudy/Most	ly Cloudy	Rain/Wet Conditions
Building				_
✓2 Story	Duplex	Condo	Townhome	
Recomm	end CO detector i	nstallation as requi	red by law within 15	feet of all bedrooms for occupant safety.
have a lir Inspectio	mited lifespan and n limited by furnis	older technology d hings throughout th	etectors are not as e ne home including bu	ty as a precautionary measure. Some effective as newer ones. It not limited to furniture, blinds, curtains, thes, items stored under some or all
	over time, and are	e not a part of this h		y, can vary significantly and change
Driveway Concrete	✓ Gravel	☐ Gravel Needs	s Regrading	Asphalt
14/ II / /D /				
Walkway/Pat		Concrete	Paving Stone	✓ Patio Stone/Brick
_			d even rises to prom	
			a even need to prom	
Front Porch Crack	Wood/Comp	agita	✓ Concrete	☐ Brick/Block/Paving Stone
			deck/porch due to s	
Front Porch	Rail	Composite		
	ndrail to promote	_ •		
ctan na	p. o. 11010 ·			



	Date: 29-Apr-2016	237A Leslie S	t, Toronto, ON M4M 3C8
			Property and Site
Front Porch Light			Operational
Unsecured	Appears to be sensor activated	Representative # Inspected/Tested	
Deck(s)/Patio(s)			
Slopes to House	☐ Wood/Composite	Paving Stone/E	Block/Brick
Typical Cracking	✓ Concrete		



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				Exterio
Limitations				
☐ Insulation Conceals	Clearance	Debris/Obstru	ction	
Obstructed/No or Partial Access	⊌ Bushes/Vines/	Tree Obstructions	Snow/Ice C	over
Foundation Wall				
Stone/Flagstone	✓ Brick	☐ Concrete	Block	
Preserved Wood	Partially Conc	ealed	✓ Hairline Cra	acking-typical
Completely Concealed				
Exterior Walls				
☐ Wood/Composite	Stucco	✓ Vinyl/Alumin	um/metal	✓ Brick/Stone
On Wood Framing				
Window Exterior				
☐ Wood ☐ Metal	□Vinyl	✓ Wood Int/Ving	yl or Metal Cla	
Exterior Lighting				Operational
Not all lights tested Unsecured - repair		pair	Representat	tive # Inspected/Tested
Basement Walkout				
✓ Drain Noted	Potential Concern			



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Inspected By:				
✓Binocular	☐ Roof Edge	☐Walk On	☐ No Access	
Limitations				
☐ Deck/Patio ☐ Snow/Ice Cover	☐ Solar Panels ☐ Rain - Too Slipp	Gravel Cover	☐ Steep Slope ☐ Material Too Sl	✓ Height lippery
Main Roof				
☐Flat Estimated Age Less	Gable than 5 years	☐ Hip/Valley Pitch 9 in 12	Shed	
Architectura years.	ıl shingles are in g	ood condition. Ty	pical life expectan	cy of this type of shingle is 25 to 30
Fascia/Soffit				
Moisture Stainin	g evident - Monitor	Aluminum/Ving	yl	
Covering				
Concrete/Clay Ti	ile Other	☐ Wood Shingle/V☐ Flat Roof Mem		✓ Asphalt/Composite Shingle ☐ Tar & Grav
Life Expectanc	y			
✓ Typical	Middle	☐ End	Exceeded	
Accessory				
✓ Vent Stack	Solar Panels	✓ Skylight(s)	☐ Vent Caps	
Flashing				
Not Checked/Co		Chimney	Drip Edge	✓ Flat Roof ✓ Skylight
☐ Roof to Wall ✓ Aluminum/Galva	✓ Stack anized	☐ Valley ☐ Tarring/Concea	Roll Roofing	Replace When Re-roofing
Chimney/Vent				
Wood	Metal	Furnace/Water		Fireplace
☑ Brick/Block/Stor	ne	Stone	Corrosion	
Chimney Cap				
•	Metal	Minor Cracking	g - Seal	Corrosion
Concrete				
•				





Date: 29-Apr-2016 237A Leslie St, Toronto, ON M4M 3C8

					Basement/Structure
Limitations ✓ Finished/Partially Finished ☐ Dry Weather/Drought		Dry Ground	Clutter/Obstruc	tion	
	t structure material/ n. Less than 5% of			ive amount as vis	sible in furnace/laundry
Floor					
Crack(s) - Typ Structural Woo	ical. Seal + Monitor od Floor	☐ Concrete ☐ Structural Con	Carpet crete Floor	Ceramic	✓ Vinyl
Wall					
☐ Crack ✓ Drywall/Plaste	Concealed r	Concrete	Block	Brick/Stone	Wood
Ceiling					
Unfinished	Wood	Tile	✓ Drywall/Plaster		
Door					Operational
☐ Binds ☐ Hole(s)/Damag	☐ Damaged ged	☐ Pocket ✓ Representative	✓ Hinged e # Inspected/Tested	Wood	Metal
Lighting Minimal	Unsecured	✓ Representative	e # Inspected/Tested		Operational
			, in Inspection 1 esteur		
Heat Source None	Electric	✓ Air Register	Radiant/Basebo	ard	
Basement Sta	airway				
Unsecured	Carpet	Wood	Worn	✓ Metal	
Railing					
✓Metal	Wood	Incomplete	None		
Floor Joist					
Concealed	Engineered Jois	sts	✓ Solid Wood	Stained	
Bridging					
Concealed	Continuous	X-Metal	X-Wood	Solid Wood	None
Beam					
Unsecured	✓ Concealed	Metal	Wood		



	Date: 29-Apr-2016			237A Les	elie St, Toronto, ON M4M 3C8
					Basement/Structure
Post On Slab	✓ Concealed	□Wood	Concrete	Metal	Brick/Block
Pipes/Ducts					
Unsecured	Leak	Insulated	Secured		



Date: 29-Apr-2016 237A Leslie St, Toronto, ON I

					Electrical Service
Service Entra	ince				
☐No Conduit	✓ Overhead	Underground	✓ 120/240V		
Entrance Cak	ole				
Concealed	Aluminum	Copper			
Consult u	tility to correct drip I	oop to control wate	er run off		
Main Disconr	nect				
Switch/Cartric	lge Fuse	✓ Breaker			
Service Size					
Have Electrici	an Evaluate				
100 amp	service, copper wire).			
Distribution F	Panel				
Not Opened Location Baseme	Non Standard In Not west wall	nstallation	Obstructed		
Panel Rating					
Room For Exp Amps 125	oansion				
Fuse					
✓ Breaker	GFCI Breaker	✓ AFCI Breaker	Over-Fused	Cartridge	Glass
Circuit Wires	/Receptacles				
Aluminum	Copper	Representative	# of Outlets Inspect	ed/TestStvitched Ou	tlets
Grounding					
Concealed	Ground Rod	✓ Water Main			



		2016		
	Date: 29-Ap	or-2016		237A Leslie St, Toronto, ON M4M 3C3
				Heating
Data Plate				
☐ Not Legible	Incomplete			
Model: American S	_	BTU Input: 60000		Estimated Age: 2 years
Limitations				
✓ System Operatin	ng in Heating Mode	System Shut Do	wn/Not Tested	
Smoke Detector)re			
			□2.1E1	
Basement	✓ 1st Floor	✓ 2nd Floor	3rd Floor	
Thermostat/Hu	midistat			Operational
Unsecured	✓ Programmable	Standard		орогиноти.
Onsecured	Trogrammatic			
Heat Type				_
Convector - Wal	ll Unit	✓ Forced Air	Radiator/Baseb	oard
Radiant - In-Floo				
Burner Type				
Conventional	Mid Efficiency	✓ High Efficiency		
Heating Fuel S		_		
✓Gas	Electric	Propane		
Fuel Source Sh	nut Off Location			_
✓ Beside	iut On Location			
Deside				
Heating Systen	n			Operational
Advise Service/I		☐ Verify Service I	Hist w/Selle	•
		-		Typical life expectancy is 20 years.
Tilgit cilicie	ncy farmace is 2 ye	ars ord arra rarretto	ming as interiaca.	Typical life expectation is 20 years.
Fresh Air Supp	oly			
Internal	✓ External			
Venting				
Venting	□α. :			
Metal	Corrosion	Sidewall/Plastic	Flue	
Life Expectanc	:V			
✓ Typical	☐ Middle	Exceeded	Middle/End	
1 ypicai		Exceded	IVIIQUIE/ L'IIQ	
Gas Burner				Operational
□ Not Checked				3 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Ignition				_
Electronic	Pilot & Thermoo	coupl		



Date: 29-Apr-2016				237A Leslie St, Toronto, ON M4M 3C	
					Heating
Heat Shield					
Missing	Corrosion	Soot	None		
Burn Chamber					
Advise Adjustme	ent	Soot			
Motor/Blower					Operational
Direct Drive	Noisy	Other			·
Filter					
Electronic	Missing	Inoperable	Undersized	Damaged	
Duct/Joint/Hou	•				
Unsecured	Corrosion				
AC					Operational
Not Checked Approx Size - Tons	Dirty 1.5	✓ Central	Room Unit		•
AC unit is 2	years old . Typ	ical life expectancy	is 15 years.		
Testing A/C cooling sea		outdoor temperatu	res will cause syste	em failure. Detern	nine function during
Cooling Fuel S	ource				
Electric					
Condensation	Line				_
Improper Drain	Corrosion				
Refrigerant Lin	ie				
Unsecured	☐ Not Insulated				



Date: 29-Apr-2016				237A Les	slie St, Toronto, ON M4M 3C8
					Plumbing Components
Limitation					
✓ Finished Basem	nent	Private System			
Public Supply					
Concealed Not Metered	Lead	Galvanized	Plastic	Copper	✓ Metered
_	: Basment west wall				
Public Shut-O	ff Valve				
✓ Not Tested	Corrosion	Tagged/Labeled	I for Convenience		
Water Pressur	re				
Low	✓ Typical	High			
Typical wa	iter pressure for a 1	/2 inch main.			
Water Quality					
Discoloration	Debris	Odor	Advise Well	Water Quality Tes	y Typical ✓
Hose Bibb					Operational
☐ Not Checked	Shut-Off Valve	Unsecured	Frost Free		
Shut off lo	cated behind ceiling	panel in basemer	nt washroom		
Distribution P	iping				
Concealed	Plastic	Galvanized	✓ Copper		
Plastic and	d copper where visit	ole			

Sewer lines in old homes such as this are prone to tree root damage, low spots, fractures, or collapse due to deterioration over time. If line has not been replaced in modern time, it may well need to be in the near future. The best way to determine condition of the drain line requires camera/scope evaluation by a drain professional.

Copper

✓ None Visible

Pump/Inspect Septic System

professional.

Cross Connection

Waste Drainage

Concealed

Kitchen

Floor Drain	
None - a potential concern	✓ Drain Appeared Functional During Test

Hose Bibb

Plastic

Main Cleanout

Concealed

Location behind panel in basement washroom

Laundry

Cast Iron



Date: 29-Apr-2016 237A Leslie St, Toronto, ON M4M 3C8

Plumbing Components

				Plumbing Componen
Hot Water Tan	k			Operational
✓ With Heating S	ystem	Gas	✓ Electric	Some Corrosion Noted - Typical
Age 8 years		Estimated Cap	acity -Litres 184	
Rental Elec years.	ctric hot water tar	nk is 6 years old a	and functioning as int	ended. Typical life expectancy is 15
Life Expectance	су			
Typical	Exceeded	Middle	☐ Middle/End	
Relief Valve				
☐ No Test Lever	Corrosion	Other		
Discharge Tub	oe			
Undersized	Discharge			
Burn Chambei	r			
✓ Not Checked	Needs Adjustr	ment		



	Date: 29-A	pr-2016		237A Leslie St, Toro	onto, ON M4M 3C8
					Laundry
Floor Worn	☐No drain				
Wall Patched	Unfinished	Crack - Typic	eal Uneven		
Ceiling Patched	Unfinished	Crack - Typic	eal Uneven		
Door ☐ Binds	Damaged/Hole	in Door		Ope	rational
Lighting ☐None	Unsecured			Ope	rational
Trap/Drain	Plastic	<u> </u>		ilure.	rational
Washer ✓ Tested On/Of	f Function Only BE65AEFC02929J	rep <u>air</u> Irap comeaeili ea	pce Slow Drain	Corrosion Operational:	Yes
All applia functions	inces were turned o		•	they are connected or not omprises turning the application	
Dryer ✓ Tested On/Of Make Samsung #	Function Only # 0AEG5BBFC002811	N		Operational:	Yes
Dryer Vent ☐ Unsecured Dryer ver basis.	☐To Crawlspace	•		Plastic Duct or fire safety. Inspect/clea	n on a regular
Interior o	f dryer vent conditio	n concealed-not i	nspected		
Heat Source None Radiator/Conv	☐ Thermostat	Electric	✓ Air Register	Radiant	



	Date: 29-Apr-2016			237A Lesl	lie St, Toronto, ON M4M 3C8
					Fireplace(s)
Type ☐ Built-In ☐ Pellet Stove	☐ Free Standing ☐ Gas Unit	Gas Log Insert	☐ Wood Stove I	nsert	☐ Wood Stove
Fireplace Fro r ☐Brick	Ceramic	Marble	Stone	□Drywall	
Hearth ☐ Raised	None				
Door/Screen None	Mesh	Glass	Metal		
Firebox □Fan	Not Checked	Firebrick	Metal		
Damper ☐ None	Sticks	Unsecured	☐ Corrosion	Creosote	Not Applicable Soot
Gas Fireplace <i>i</i> ⊡Fan	'Gas Insert ☐ Not Tested	✓ Gas Shut-Off W	ithin Arms Reach		Operational
Wood/Pellet S ✓ Not Tested ☐ Advise Inspecti	Suspect Installa	tion	Certification 1	Not Apparent	
Chimney Flue Not Checked	Soot	Advise Inspection	on/Sweeping		



Counter

Unsecured

☐ Minor Damage - Scratches/Stains

	Date: 29-Apr	r-2016	237A Leslie St, Toronto, ON M4M 30		
				All Baths	
Location Basement	1st Floor	✓ 2nd Floor	☐ 3rd Floor		
Dasement	13011001	V 2110 1 1001	_ sta i looi		
Water Flow					
✓ Normal	Suspect	Low			
Floor					
Worn	Minor Cracking -	- Typica	Stains/Minor Damage		
Wall					
Uneven	Patched - Typical	1	Ceramic		
Ceiling					
Uneven	Minor Patching -	Typical	Minor Cracking - Typica		
Window				Operational	
Binds - Adjust/R	-	Not Tested	☐ Treat Wood To Preserve/Protect	✓ Thermal Pane	
Single Pane	Storm Windows	✓ Representative #	Inspected/Tested		
Door				Operational	
Binds - Adjust/R	epair	Damaged	Representative # Inspected/Tested		
Lighting				Operational	
None	Unsecured				
Exhaust Fan				Operational	
Advise Installation	on	Dirty - Clean for	best function Noisy - Service	/Repair/Replace	
Sink					
Worn	Chip/Scratch	Steel/Ceramic	✓ Solid/Granite		
Faucet				Operational	
☐ No Shut-off	✓Unsecured	Corrosion	Minor Leakage at Handle - Repair	•	
Trap/Drain ☐ Drain stop discor	nnected/inoperable-Re	epa S fowc Dnaismie Glas	an/Repair Corrosion - Mo	nitor for leaks	
Vanity					
Worn/Scratches	Missing/Loose H	ardware	Prior Stains-No Leakage Now		

Caulk at Backsplash



Heat Source

Radiator/Convector

None

Date: 29-Apr-2016	237A Leslie St, Toronto, ON M4M 3C8
	All Baths
Toilet	Operational
No Shut-Off ☐ Unsecured ☐ Crooked - Monitor for leal	kage
Tub/Enclosure	
☐ Ceramic/Tile ☐ Solid Surface/Marble ☐ Fiber	glass Plastic Panels
☐ Minor Mildew Stains-Treat/Clean ☐ Worn - Scratches/Chips	
Tub Faucet/Mixer	Operational
□ Not Tested □ Unsecured □ Leaky-Secure/Repair/Repl	ace
Shower Enclosure	
✓ Ceramic/Tile Solid Surface/Marble Fiber	glass Plastic Panels
☐ Minor Mildew Stains - Treat/Clean ☐ Worn - Scratches/Chips	
Shower Head	Operational
□ Not Tested □ Unsecured □ Leaky-Secure/Repair/Repl	ace

✓ Air Register

Radiant

Electric

Thermostat



	Date: 29-Apr-2016		237A Leslie St, Toronto, ON M4M 3		
				Baseme	ent washroom
Location ✓ Basement	1st Floor	2nd Floor	3rd Floor		
Water Flow ✓ Normal	Suspect	Low			
Floor Worn	☐ Minor Cracking	- Typica	Stains/Minor Da	nmage	
Wall □Uneven	Patched - Typica	1	Minor Cracking	- Typica	
Ceiling □Uneven	☐ Minor Patching -	Typical	Minor Cracking	- Typica	
Door ☐ Binds - Adjust/	Repair	☐Minor Damage/	Hole In Door	Operational:	Yes cted/Tested
Lighting ☐ None	Unsecured			Operational:	Yes
Exhaust Fan Advise Installat	ion	Dirty - Clean fo	or best function	Operational: Noisy - Service/Repair	Yes /Replace
Sink Worn	Chip/Scratch	✓ Solid/Granite			
Faucet ☐ No Shut-off	Unsecured	Corrosion	☐ Minor Leakage	Operational: at Handle - Repair	Yes
Trap/Drain ☐ Drain stop disco	onnected/inoperable	Slow Drain - Cl	lean/Repair	Corrosion - Monitor for	r leaks
Vanity Worn/Scratches	s Missing/Loose H	ardware	Prior Stains-No	Leakage Now	
Toilet ☐ No Shut-Off	Unsecured	Crooked - Mon	itor for leakage	Operational:	Yes
Tub Faucet/Mi	Xer Unsecured	Leaky-Secure/R	Renair/Renlace	Operational:	Yes



Date: 29-Apr-2016				237A Leslie St, Toronto, ON M4M		
				Baseme	ent washroom	
Shower Enclo	osure					
✓ Ceramic/Tile	Solid Surface	Marble	Fiberglass	Plastic Panels		
☐ Minor Mildew	Stains - Treat/Clean	☐Worn - Scrat	tches/Chips			
Shower Head	<u> </u>			Operational:	Yes	
☐ Not Tested	Unsecured	Leaky-Secur	re/Repair/Replace			
Heat Source						
None	Thermostat	Electric	✓ Air Register	Radiant		
Radiator/Conv	ector		-			



	Date: 29-Apr-2016			237A Leslie St, Toronto, ON M4M 3C8		
					Kitchen	
Floor						
Worn	Minor Cracking	- Typica	Stains/Minor D	amage		
Wall					_	
Uneven	Patched	Minor Cracking	; - Typica			
Ceiling						
Uneven	Patched- Typical	[Minor Cracking	g - Typica		
Patio Door					Operational	
☐ Binds - Adjust/R ☐ Minor Damage/V		✓ Sliding Weather Strippi	☐ Hinged ng	Dead Bolt		
Lighting					Operational	
None	Unsecured	▼ Representative	# Inspected/Tested		•	
Sink					_	
Worn	Chip/Scratch					
Faucet					Operational	
☐ No Shut-Off Valve		Unsecured	Corrosion	Minor Leakag	ge at Handle - Repair	
Trap/Drain						
Slow Drain - Cle	ean/Repair	Corrosion - Mo	nitor for Leakage			
Counter						
Unsecured	Caulk at Backspl	lash	Minor Damage	/Scratches/Worn		
Cabinet		_		_		
Worn/Scratches		Missing/Loose	Hardware	✓ Representativ	ve # Inspected/Tested	
Range Hood					Operational	
Cooktop Exhaus	t	☐ No Exhaust	☐ No Light	Noisy		
Exhaust vent						
Unsecured	Ductless	Concealed	To Exterior			
Filter						
Missing - Install	for safety	Unsecured	Damaged	Greasy		
Major Appliand						
✓ Tested ON/OFF	only	✓ Did not Test Al	Functions/Cycles			

All appliances were turned on using regular operating controls if they are connected or not shut down. All



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Kitchen

functions and different systems are not tested. The test simply comprises turning the appliances on to verify

some basic functionality.				
Dishwasher				Operational
Brand GE # MD742294B				
Stove/Cooktop				Operational
Brand GE				
Refrigerator				Operational
Brand GE # SD515620				
Heat Source				
☐ None ☐ Thermostat ☐ Radiator/Convector	Electric	✓ Air Register	Radiant	



Heat Source

✓ Air Register

Radiant-Concealed

Electric

	Date: 29-A	pr-2016		237A Lesli	e St, Toronto, ON M4M 3C8
					Interior Living Spaces
Floor Worn	☐ Minor Crackin	g - Typica	Staining/Minor Da	ımage	
Wall Uneven Wood Frame v	Patched - Typiov/drywall/plaster	cal	Minor Cracking -	Гуріса	
Ceiling ☐ Uneven ☑ Wood Frame v	Patched - Typiow/drywall/plaster	cal	☐ Minor Cracking - ′	Гуріса	
Window Binds - Adjust Treat Wood To	/Repair	□ Not Tested	Fixed Pane [Single Pane	Operational Thermal Pane
		-	are in good condition.		
Lighting None	Unsecured	✓ Representativ	ve # Inspected/Tested		Operational
Interior Doors Binds - Adjust Floor guides m	/Repair	☐ Hinged ✓ Representativ	Closet door off tra	ck	Operational
Stairway Carpet	Wood	□Worn	Squeaks - Typical		✓ Metal
Railing Wood/Metal	☐ Incomplete	None			
Exterior Door Binds - Adjust Minor Damage		☐ Weather Strip ☐ Sliding	oping Missing/Improper [☑ Hinged	✓ Dead Bolt	Operational

 $\begin{tabular}{l} \square Radiator/Convector \\ \end{tabular}$

None



237A Leslie St, Toronto, ON M4M 3C8

Additional Comments

General Comments

This is a Prelisting Inspection performed for the seller of the home in preparation for putting the home on the market for sale. This inspection is completed to ASHI and OAHI standards, is visual in nature, and does not address building code compliance issues which are the purview of municipal building inspectors.



Property and SiteBuilding



Rear image

Front Porch Rail



Missing handrail



Roof Structure

Main Roof



Date: 29-Apr-2016

Roof covering

Basement/Structure

Pipes/Ducts



External Gas shut off

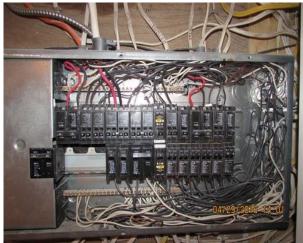


Electrical Service Entrance Cable



No drip loop

Distribution Panel



Electrical panel



Heating Heating System



Date: 29-Apr-2016

High efficiency furnace

Plumbing Components

Public Supply



Water meter and main shut off



237A Leslie St, Toronto, ON M4M 3C8

All Baths

Faucet



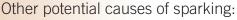
Faucet not secure

Arc Fault Circuit Interrupter

Increasing Electrical Fire Safety

An "arc fault circuit interrupter," or AFCI, is a new type of circuit breaker designed to detect sparking in an electrical system, and to shut down the affected circuit before it causes a fire. The jury is still out on whether AFCIs actually save lives and property.

A household circuit can cause fire in two ways: circuit overload and sparking. Standard circuit breakers or fuses usually protect an overloaded circuit, but the breakers may not trip from intermittent sparking. For example, if you pierce or sever an electrical cable while hammering a nail into a wall, you could create an intermittent short, resulting in sparking. If the breaker does not trip, a fire could start. The AFCI is designed to detect such problems.



- A frayed extension cord
- A squeezed or pinched cord
- Old and cracked insulation on electrical wires and cables
- Loose electrical connections

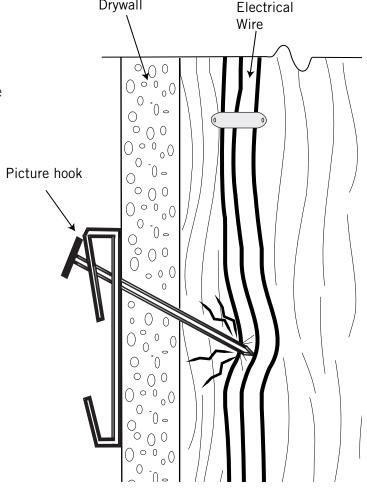
What's the Difference Between an AFCI and a GFCI?

A GFCI, or a "ground-fault circuit interrupter," is typically installed in areas with a high risk for electrical shock, such as bathrooms (see Pillar To Post® GFCI Info Series). A GFCI protects people from electric shock, while an AFCI protects homes from electrical fires.

What Do These Devices Look Like? Where Are They Installed?

An AFCI fits into the electrical panel in place of a standard circuit breaker. It looks like a GFCI breaker except the AFCI has a blue test button while the GFCI has an orange test button.

AFCIs are becoming mandatory in some jurisdictions. In 2002, the National Electrical Code insisted on AFCIs for all bedroom electrical outlets and their branch circuits.



Drywall

Information Series

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AFCIs may be retrofitted to any home with a modern circuit breaker panel. But before you ask your electrician to replace all your breakers with AFCIs, consider the following:

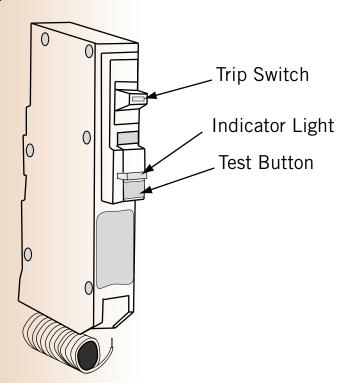
- AFCIs are expensive, about \$40 to \$60 dollars per breaker. For a typical panel, you might pay a sum of \$1,500, not including labor.
- AFCI breakers may not be available for an old panel.

Can an AFCI Make an Old Electrical System Safer?

Old wiring has likely been subjected to years of modifications and abuse, making it a more likely candidate for sparking. Insurance companies are concerned about the safety of knob and tube wiring in particular, making an AFCI seem an ideal retrofit. But since AFCIs have not been tested with old wiring, certifying laboratories and electrical authorities cannot yet assure the public that AFCIs will perform as expected.

Not Quite Electrical Nirvana

It will take several more years before statistics reflect anything concrete about how well AFCIs function. In the meantime, we can only assume that AFCIs reduce the chances of electrical spark-induced fires. Electrical authorities do plan, however, to ultimately mandate every breaker in your electrical panel as an AFCI or a GFCI, or a device that covers both, protecting people from electric shock and homes from electrical fires.



Pillar To Post® encourages anyone who feels they would benefit from AFCIs to consult an electrician. We would like to make one thing clear: we do not believe AFCIs are a quick fix for dangerous wiring, nor are they an excuse to live with an unsafe electrical system. A qualified electrician should promptly deal with unsafe wiring conditions.

Carbon Monoxide

Carbon monoxide, or CO, a byproduct of incomplete combustion of fossil fuels, is a colorless, odorless gas. Breathing CO reduces the blood's ability to carry oxygen. In severe cases, CO can cause death.

Defective or malfunctioning fossil fuel appliances, or inappropriate use of appliances that burn fossil fuel close to or inside the home can pose a serious health hazard. Here are a few examples of dangerous operations:

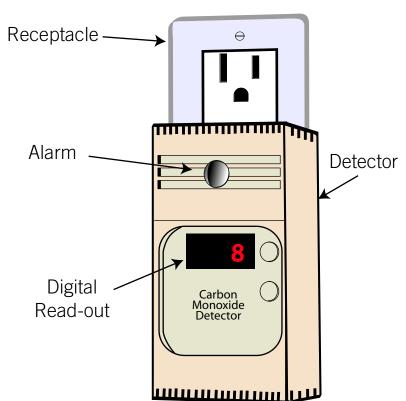
- Running an automobile or gas lawn mower inside the garage
- Operating a barbeque inside the home
- A gas or oil burning furnace with a blockage in the chimney
- Kerosene space heaters
- Operating a generator in the home during a power failure

Symptoms of Carbon Monoxide Poisoning

Symptoms of carbon monoxide poisoning include headache, dizziness, nausea, vomiting, weakness, chest pain, confusion, and loss of consciousness. Carbon monoxide poisoning can lead to death. Low level poisoning may go unnoticed because it may be mistaken for the flu.

Carbon Monoxide Detector

You should have at least one carbon monoxide detector in your home. In some geographic areas, a CO detector is required by law. The CO detector should be placed where you can hear it if it goes off when you are asleep. A CO detector does not have to be placed on the ceiling, since unlike smoke, CO has approximately the same weight as air so it mixes



You should have at least one of

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uniformly throughout the room rather than floating up to the ceiling. To avoid false alarms, do not install the detector next to heating and cooking appliances, vents, flues, or chimneys. Make sure you read and follow the operating, placement, and testing instructions that come with the detector.

If the carbon monoxide detector alarms, take it seriously.

Avoiding CO Poisoning

- Have your heating systems serviced every year by a qualified technician.
- Have your fireplace chimney cleaned and inspected every year.
- Install at least one CO detector in your home and replace the batteries twice per year.
- Open the garage door prior to starting your car; drive the car out promptly. Do not leave it idling in the garage. Do not use a remote car starter when the car is in the garage.
- Do not use a charcoal or propane barbeque in the home.

If you are installing only one carbon monoxide (CO) detector, it should be located where you can hear it if it goes off when you are sleeping. For greater safety, multiple CO detectors can be installed throughout the home. Follow the instructions packaged with the detector.

Bedroom Hall Bedroom CO Detector

Main Level

Basement

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ASPHALT SHINGLES

Asphalt shingles are the most common type of sloped roof covering in North America. They are easy to install, reliable and arguably the best bang for the buck.

Shingle Construction

While there are many types of asphalt shingles, the general construction is similar. There are three distinct layers -

- A base material that gives the shingle strength and shape.
- An asphalt layer that forms a waterproof barrier.
- A granular surface that reflects the ultraviolet radiation and gives the shingle durability, color and texture.



Three layers of an asphalt shingle

Warranty

What's a 20 year shingle? 20 years is the manufacturer's limited warranty against defects. The number loosely represents the number of years the shingle could last in an ideal installation and ideal conditions. In practice, the reliable life is less than stated. Common shingle warranties are 15 to 50 years. The higher the warranty, the thicker the layer of asphalt and the thicker and heavier the shingle.

Fiberglass or Organic Based Asphalt Shingles

The two common base layer materials are paper saturated in asphalt and fiberglass. While they are both asphalt shingles, they are often referred to as organic and fiberglass respectively.

Fiberglass base shingles were developed to use less of the expensive asphalt but still maintain the same shingle life. The main difference is that the fiberglass based shingle is thinner and lighter than the equivalent organic shingle, making it more desirable for installers.

Organic shingles are thicker and heavier and are considered to have better durability and tear resistance. Fiberglass based shingles are more flexible in hot weather and may perform better in wind storms. Both types are used successfully in most climates. There have been problems reported with fiberglass based shingles involving cracking of the shingles due to thermal stress (large temperature fluctuations). These problems are less prevalent now as new standards for manufacturing these shingles have been adopted by most manufacturers.



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Architectural / Laminated Shingles

The most common asphalt shingle is the three tab shingle shown in the illustrations. Instead of three tabs, the architectural shingle has pieces of shingle material stuck on to create a more interesting pattern. Because there are pieces stuck on, it's often called a *laminated shingle*. Since it's a premium product, it will have a 25 to 30 year warranty as a minimum. Many styles are available.

On The Roof

The illustration below shows a roof deck with the first few rows of shingles. The shingles are arranged so water sheds from one shingle to the next. The key point is that the system is not waterproof. It relies on gravity and the slope of the roof to shed water. Asphalt shingles are designed for a roof with a slope of 4 in 12 or greater. They can be used on low slope roofs as well but a special application technique is required.

Flashing: Asphalt shingles will shed water reliably. At roof penetrations or intersections, special treatment is required. For example, you can't reliably seal shingles to the edge of a skylight or chimney. Flashings are pieces of metal that are strategically placed to shed water over roof penetrations and onto the field of shingles without relying on sealants. Done properly, flashings will do the job for the life of the roof as they rely on nothing but gravity and slope. Flashings are often not done properly and are considered to be the weak point of any roof surface. Roofs rarely leak in the middle of a field of shingles, they leak at roof penetrations and intersections where flashing has been poorly installed or have become damaged.

Life Cycle & Reliability

Asphalt shingles wear out. Imagine an asphalt shingle roof surface as a sacrificial wear surface. The life cycle of the surface is always less than the advertised warranty period of the shingle.

Wear: Asphalt shingles deteriorate from exposure to ultraviolet radiation. For this reason, south and west facing shingles wear out much more quickly than north and east facing. Other wear factors include heat, inadequate venting of the roof space underneath, roof slope, leaves and debris, snow and ice.

Reliability: When the surface is near the end of its service life, it becomes unreliable. We are often asked if an old roof could last another year or two. The answer is usually, "yes but". Either live with a reduced reliability (increased risk of leakage) or improve the reliability by giving the roof a "once over", focusing on repairing flashings. Depending on the roof, it may not make economic sense to spend money repairing flashings that will only be torn off when the roof is ultimately resurfaced. Furthermore, the surface is hard to work with because it becomes very brittle when it's old.

Multiple layers: When it's time to resurface the roof, it is possible to install new asphalt shingles directly over the old. This is less expensive than stripping the existing surface. The trade-off is that the roof may not last as long and may not be as reliable. This is because old flashings are often used and are often not done properly and because the shingles are laid upon an uneven base. Some areas allow up to three layers while other areas allow only two.

