



## STAY TUNED

Spring has sprung, plants are growing, and trees are filling in. The clocks have moved forward, the days are longer, and we are already approaching midyear. The seasons keep changing, a sign of renewal and moving forward. Here at NGC Testing Services, we are always in the process of renewal by adding more testing services and other improvements to better serve you. In our previous issue, we discussed the additions of testing water and air infiltration, and wind-load testing for fenestration and exterior enclosure type products. We will soon be adding even more fire-testing capabilities, so stay tuned for that. In this issue, we feature our full-scale horizontal floor-ceiling fire-test capabilities; explain how acoustical STC values are calculated; and include a fun glossary of terms that will help you navigate the Buffalo area if you visit our laboratory. We encourage you to visit during your test projects or to tour the lab when it is convenient. We always look forward to assisting you with your testing projects, and an opportunity to see you is a bonus. Let us know today how we can help you with your next project. NGC Testing Services is here for you, and continues to grow, no matter the season.

**Bob Menchetti**

Director of Laboratory Facilities & Testing Services

## FOCUS ON: HORIZONTAL FLOOR-CEILING FIRE TESTING

Where would you fire test a subway car? There are not too many facilities that could handle this size order. But if you have this or another large specimen to fire test, send it to NGC Testing Services. Our facility is equipped to test it for you.

Full-scale (14 ft. x 18 ft.) horizontal floor-ceiling furnaces are extremely rare, and we have one of the finest. This furnace, built in place when the building was constructed, is flush with the lab floor for superior access and test observation. It extends down two stories, including a control center/internal observation area and a sub-basement for maintenance. We can test a wide range of horizontal assemblies for fire endurance, such as roof assemblies, floor-ceiling assemblies, columns and beams, wood assemblies, penetrations, building joints — even subway cars — in this furnace! It meets ASTM E119 requirements and features:

- A 30-ton overhead crane
- Large access openings and truck access into building to accommodate any (type or size) material, and the largest preassembled test specimens
- 4 test frames
- 80 burners
- 16 thermocouples (to measure within the furnace)
- Up to 165 regular thermocouples and up to 130 additional auxiliary thermocouples (295 total) to measure the unexposed and internal test specimen temperatures



internal test specimen temperatures

- Full loading capabilities
- Full hose-stream test capabilities
- In addition to ASTM E119, this furnace can conduct a wide range of tests to the following test standards: UL 263, NFPA 251, CAN/ULC S101, ASTM E814, UL 1479, NFPA 130, UBC 26-2 and UL 2079.

Call or [e-mail](#) us for more information about our capabilities. We look forward to helping you.

## DID YOU KNOW?

### BUFFALO GLOSSARY



When you come to visit our facility (and we hope you will), here are some local terms and landmarks to help you navigate Buffalo, New York. Keep it handy — we think you'll find it useful.

<b>Wings:</b>	Buffalo chicken wings
<b>Beef on Weck:</b>	Roast beef sandwich on Kimmelweck roll (covered with large salt and caraway seeds)
<b>The Falls:</b>	City of Niagara Falls
<b>The Island:</b>	Grand Island, an island suburb north of Buffalo, on the way to The Falls
<b>Pop:</b>	Soda
<b>Skyway:</b>	Stay off unless you're adventurous (it is a roller coaster for cars)
<b>The Youngman:</b>	Interstate 290
<b>The Main Line:</b>	Interstate 90 through Buffalo metro area (note: I-90 East runs north; I-90 West runs south)
<b>The Niagara Section:</b>	Interstate 190 (note: I-190 North runs west and north; I-190 South runs east and south)
<b>Lockport Expressway:</b>	Interstate 990
<b>The Kensington:</b>	Route 33
<b>The Scajaquada:</b>	Route 198
<b>The QEW:</b>	Queen Elizabeth's Way (the highway from Buffalo to Toronto, Ontario — our version of the Autobahn)
<b>14217:</b>	Our ZIP code (a Kenmore ZIP code, even though we are in the town of Tonawanda and use Buffalo as our mailing address)
<b>Tonawanda:</b>	There are three (the town of Tonawanda, city of Tonawanda and city of North Tonawanda)
<b>Bridges to Canada:</b>	Peace (Buffalo/Fort Erie), Rainbow (The Falls), Queenston-Lewiston (on the way to our version of the Autobahn)
<b>Cheektowaga:</b>	Buffalo Airport location
<b>Lackawanna:</b>	Reward if you survive the Skyway (note the Native American influence here)
<b>Nearby streets caution 1:</b>	There is a Delaware Avenue and a Delaware Road (they intersect twice)
<b>Nearby streets caution 2:</b>	Delaware Avenue turns into a street at the Tonawanda/Tonawanda border

<b>Nearby streets caution 3:</b>	Grand Island Boulevard does not connect with Grand Island Boulevard on the Island — unless you have a boat or swim.
<b>Nearby streets caution 4:</b>	Military Road does not connect with Military Road in The Falls
<b>The Snowbelt:</b>	South of the city (ski resorts)
<b>Lake Effect:</b>	A very narrow, very localized snowstorm, which usually occurs south of the city. If the wind shifts in an unusual direction, it moves north to the metro, yet impact depends on your street address. (Headquarters for NGC Testing Services is north of the city, so we get the least of it.)
<b>South Buffalo:</b>	A separate city in the eyes of its inhabitants and others
<b>The West Side:</b>	A separate city in the eyes of its inhabitants and others
<b>Allentown:</b>	Filled with antique shops, art studios and Victorian houses
<b>Loonies and Toonies:</b>	Canadian money (common, as we are situated on the U.S./Canadian border)
<b>Elmwood Village &amp; Strip:</b>	Walkable neighborhoods lined with restaurants, shops and large, historic houses
<b>The Rock Pile:</b>	Former home of the Buffalo Bills football team
<b>The Ralph:</b>	Ralph Wilson Stadium, current home of the Buffalo Bills
<b>The Aud:</b>	Former home of the Buffalo Sabres. Now, it is the location of Canal Side — a popular gathering place for entertainment and recreation, celebrating the historic terminus of the Erie Canal and adjacent canals.
<b>The Arena:</b>	First Niagara Arena, current home of the Buffalo Sabres hockey team
<b>The Track:</b>	Fort Erie horse racing track
<b>"Going up to Seneca":</b>	Large casino in The Falls (the U.S. side). There are more casinos on the Canadian side.
<b>"Going down to Seneca":</b>	Casino downtown near the Arena
<b>Coca-Cola Field:</b>	Home of the Buffalo Bisons baseball team
<b>Nickel City or Queen City:</b>	Buffalo
<b>Larkinville:</b>	Popular area with large, redeveloped industrial buildings
<b>Elevator Alley:</b>	Grain mills on the Buffalo River (giving the area a Cheerios aroma)
<b>Tim's:</b>	Tim Hortons (a donut shop, founded by famed Buffalo Sabres' player)
<b>Paula's:</b>	Paula's Donuts (famous for super-sized)
<b>Tops:</b>	A grocery store
<b>Wegmans:</b>	A grocery store on steroids
<b>Loganberry:</b>	Local drink, "a Buffalo thing"
<b>Tacos:</b>	Burritos
<b>Sponge Candy:</b>	Local candy, "another Buffalo thing"
<b>Dogs:</b>	Sahlen's Hot Dogs
<b>Easter:</b>	Dyngus Day Eve
<b>Thanksgiving:</b>	A recovery day after the night before, and day of the Turkey Trot (the oldest footrace in the U.S.) for those not recovering
<b>St. Patrick's Day:</b>	A weeklong celebration in March
<b>Last Call:</b>	4 a.m.
<b>Chippewa Street:</b>	Bars
<b>Hertel Avenue:</b>	Bars
<b>Allen Street:</b>	Bars
<b>Oliver Street:</b>	Corner Bars
<b>Elmwood Avenue:</b>	Restaurants (actually, they're bars)
<b>Seneca Street:</b>	Taverns
<b>First Ward:</b>	Old Taverns
<b>Downtown:</b>	Downtown

LEARN MORE



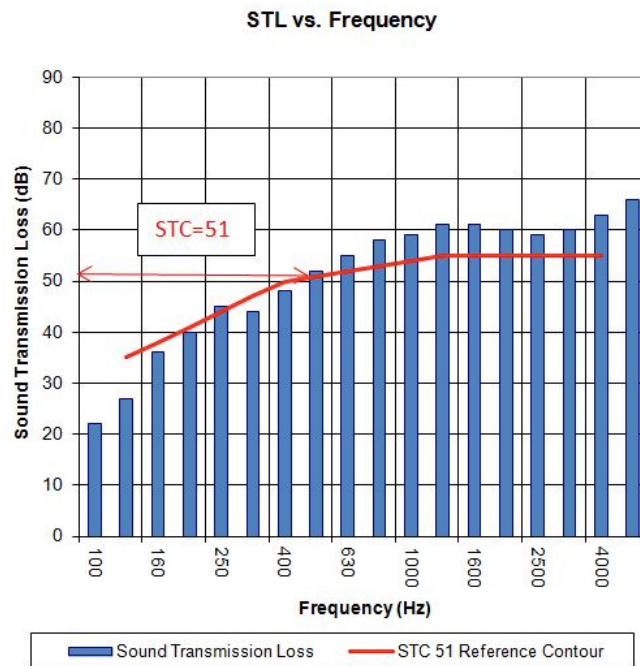
## HOW TO CALCULATE SOUND TRANSMISSION CLASS (STC) RATINGS

Deficiencies occur when a measured Sound Transmission Loss (blue bar) is less than the standard contour (red line).

The standard contour is adjusted vertically until the sum of the deficiencies is less than or equal to 32 and no additional deficiency is greater than 8 decibels (dB) at any one frequency.

The STC value is read where the standard contour crosses 500 hertz (Hz) and then is read over to the left-hand axis of the graph.

If you would like more information about this test, please contact us.



### TAKE A CLOSER LOOK!

Check out our new [brochure](#) and watch our [video](#) for the latest updates about NGC Testing Services' capabilities. We're ready to put your products to the test, and this is a great way to see all that we can do for you. Take a look and give us a call — let us know how we can help.



**DOWNLOAD  
OUR BROCHURE**



**WATCH  
OUR VIDEO**



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