



# History Lessons:

# Life Cycle for a Lifetime

Union Station Courthouse, Tacoma WA

“The building was built to last and built to be impressive,” Nielsen explained. “It’s really beautiful with lovely details.”

Corridors in the second through fourth floors combine terrazzo and solid marble in a geometric pattern. In 1994, the historic floors were repaired and leveled by resurfacing. In 2004, the building won The Office Building of the Year Award in the historic category from the Building Owners and Managers Association Northwest Region.

### Undercover Value

When carpet was removed in Yakima’s 1912 William O. Douglas Courthouse in 2009, the estimating contractor assessed the original terrazzo underneath to be “in

relatively good condition considering the age.”

Minimal cracking and some deep scratches were found. The main problem was the countless small holes from the mechanically fastened carpet tack strips. With careful color matching, the historic floors will need only minor repairs and refinishing to be restored to their original beauty.

### Lessons of Building History

Today’s trends are back to more permanent, forward-looking building standards and greater initial investment in building well to conserve resources long-term. The concept of green is in part just a new

way of talking about going back to the use of what has proven to endure and perform.

“We keep things up; we don’t get rid of things that have cultural value and other value,” Nielsen said, because Construction is a major contributor to carbon emissions.

Nielsen is celebrating not only the lifetime of efficiency and beauty of the centenarian courthouses under her watch, but the movement toward greater sustainability in construction, backed by federal standards.



*Photos courtesy of David Laudadio*



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Pioneer Courthouse, Portland OR



William O. Douglas Courthouse, Yakima WA

***When four historic courthouses in the Pacific Northwest mark their centennials, they have something else to celebrate: 100 years of solid value and embodied energy in their historic terrazzo floors.***

In Washington, Spokane’s Federal Building and U.S. Post Office celebrated 100 years in 2009, and Tacoma Union Station in 2011. Yakima’s William O. Douglas Courthouse’s first case was tried in 1912. In Oregon, Portland’s Pioneer Courthouse boasts terrazzo floors dating from 1905.

One of the lessons the history of these buildings teaches us is the value of using materials that last.

“Terrazzo is a very durable, beautiful substance for buildings with high traffic,” reported Rebecca Nielsen, Historic Preservation Program Specialist and LEED Accredited Professional with U.S. General Services Administration (GSA)

in Auburn, WA. She oversees 20 historic register federal buildings in the Pacific Northwest.

“Terrazzo was obviously a good choice, because 100 years later we are still using it,” Nielsen noted.

“On the whole, these floors are in excellent condition and look great,” she said. “We feature them and maintain them. We are proud of them.”

In recent building preservation plans for each historic courthouse, the original terrazzo floors were generally rated a significant contributor in the hierarchy of preservation concerns in the structure’s historic significance. These 100-year-old floors were also generally rated in good-to-excellent condition. Through the years, the floors have required only repairs of chips or minor cracks and an occasional resealing, along with routine maintenance, to keep them functional.

“The floors are in really great shape,” Nielsen explained. “We fix up the cracks and we maintain it. There’s certainly no reason to replace it. It’s working just fine.”

**Green Terrazzo**

Terrazzo was chosen for turn-of-the-century grand public buildings “because it worked so well,” Nielsen explained. “It’s easier to maintain and clean than wood, and it takes a lot to damage it. It takes a whole shift in the building. Wood can be damaged easily if you drop something on it.”

The flooring of choice for places open 24/7, such as post offices, terrazzo “stands up to just about anything,” according to Nielsen. “As an added benefit, it’s pretty. The designs and colors possible are limitless.”

Today, use of terrazzo makes the same sense as it did in the day of these historic courthouses, and even more because of the awareness now of the environmental impact of building choices. Government standards are also now reinforcing the use of materials that last and conserve resources long term.

One of the earliest, original recycling ideas, terrazzo began as the creative reuse of leftover chips of marble some

500 years ago in Italy. Terrazzo was green before green was trendy.

“Except for occasional resurfacing and cleaning, once terrazzo’s in, it’s there. It stays forever,” Nielsen said. “No energy is expended replacing it or getting rid of it.”

Terrazzo can contribute as many as five LEED points for a public art project, based on its durability, low VOC emissions in installation and maintenance, reclaimed and local materials and building reuse.

**How Ageless Beauty Shows its Age**

Widely considered the most historically significant building in the Pacific Northwest, Pioneer Courthouse in Portland was completed in 1875. The second oldest courthouse west of the Mississippi, it’s also the oldest federal building in the region. Restorations were done in 1969-73 and again in 2002-05. With a distinguished Italianate design, it was designated a National Historic Landmark in 1977.

Terrazzo floors were installed in 1905, replacing tiles and wood, along with a major remodel and expansion. The only signs of age in the terrazzo today are slightly worn down spots in front of the post office windows where people stood in line for 40 years, and a couple of settlement cracks, Nielsen reported. “Otherwise it doesn’t look worn. You can’t tell it’s 100 years old.”

**Where Less Maintenance is More**

Years of over-maintenance of Tacoma’s Union Station’s terrazzo floors had left them looking discolored and deteriorated.

With its opulent, spatially streamlined Beaux-Arts style architecture and monumental copper-clad dome, Union Station has been an urban Tacoma landmark for a century. It was designed by Charles Reed and Allen Stern, who had earlier redesigned New York’s Grand Central Station. A 2006 survey of conditions found the original geometric pattern of

the historic terrazzo flooring in the main lobby to be intact and still in generally good condition.

According to an architects’ restoration analysis, wax was obscuring the rich color and depth of the original terrazzo flooring. The unnecessary waxing temporarily clouded its appearance and required significant upkeep, but hadn’t damaged the flooring.

Maintenance costs of the historic floors are now low, Nielsen affirmed. After sealing, only regular sweeping and an occasional damp mopping is needed.

The reflective sheen of the terrazzo floor now complements the luminosity of the main lobby.

**Built to Last, Built to Impress**

Unique mosaics—the only historic mosaics in a four-state area of historic federal buildings— adorn the 1910 vestibule of Spokane’s Federal Building and U.S. Post Office.