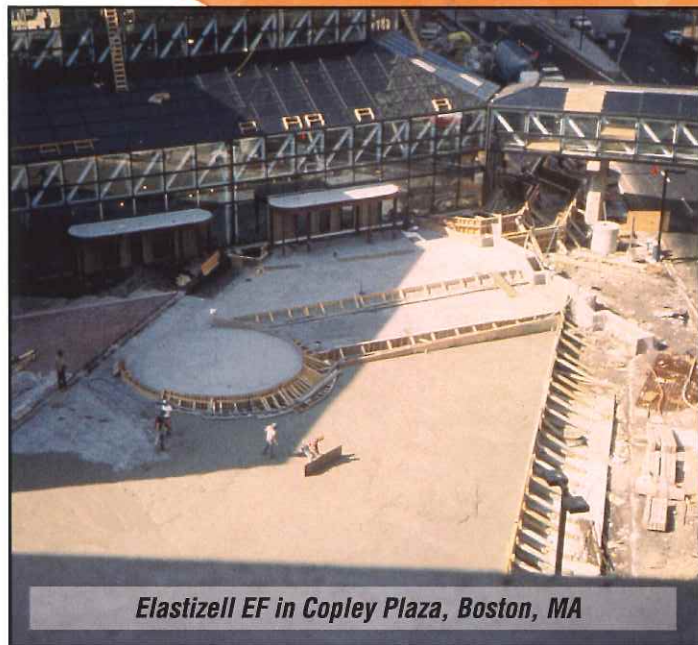


Elastizell EF Permits the Landscaping of a Plaza



Soldiers & Sailors Memorial Hall & Museum, Pittsburgh, PA



Elastizell EF in Copley Plaza, Boston, MA

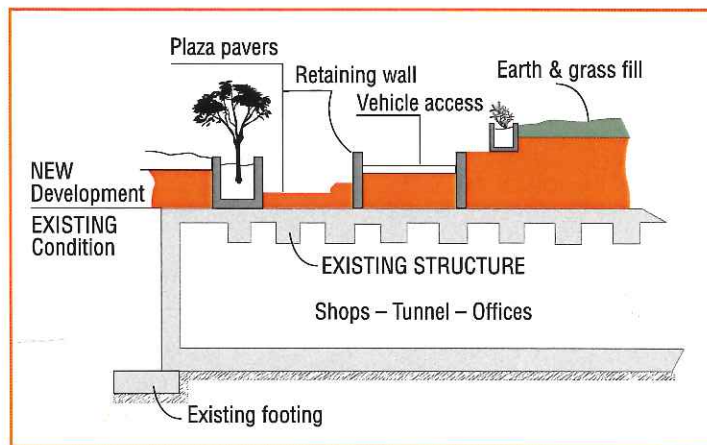
Problem

Existing plazas already have the maximum allowable loads which preclude landscaping with planters, retaining walls, earth fill or reflecting pools. How could a reflecting pool area be repurposed without overloading the structure?

Discussion

Renovation of plazas and office malls is often a more desirable solution than constructing a new facility. The new look can revitalize an otherwise drab area. Tenant and visitor interests may be rekindled in the location.

The fill for this application needs to be lightweight, strong, permanent and easily placed.



Solution

Elastizell EF was cast over the waterproofed plaza after new planters and retaining walls had been installed. This greatly reduced the dead load on the plaza structure yet still permitted enough load carrying capacity for the earth fill to create grassy slopes or other vegetative accents.

Advantages

- *Elastizell EF reduces dead loads.*
- *Ability to support equipment needed to create landscaping.*
- *Resistance to freeze/thaw cycles and water absorption make Elastizell EF ideal for this application.*
- *Elastizell EF can create positive slope for drainage and ADA accessibility.*
- *Since it is pumped into place, Elastizell EF can form various architectural curves and shapes.*

BASIC PHYSICAL PROPERTIES

Elastizell EF

*Greater values may be obtained if required per Elastizell Corporation design.

CLASS	MAXIMUM CAST DENSITY pcf (kg/m ³)	MINIMUM COMPRESSIVE STRENGTH* psi (Mpa)	ULTIMATE BEARING CAPACITY Tons/sf (kN/m ²)
I	24 (384)	10 (0.07)	0.7 (69)
II	30 (480)	40 (0.28)	2.9 (276)
III	36 (576)	80 (0.55)	5.8 (552)
IV	42 (672)	120 (0.83)	8.6 (827)
V	50 (800)	160 (1.10)	11.5 (1103)
VI	80 (1280)	300 (2.07)	21.6 (2068)

Comparison of Maximum Fill Material Densities

ELASTIZELL EF

Class I	24 pcf (384 kg/m ³)
Class II	30 pcf (480 kg/m ³)
Class III	36 pcf (576 kg/m ³)
Class IV	42 pcf (672 kg/m ³)
Class V	50 pcf (800 kg/m ³)
Class VI	80 pcf (1280 kg/m ³)

Water	62.4 pcf (1000 kg/m ³)
Lightweight Aggregates	60-90 pcf (961-1442 kg/m ³)
Flowable Fills	90+ pcf (1442+ kg/m ³)
Soils	120 pcf (1922 kg/m ³)
Aggregates, Asphalts	125 pcf (2002 kg/m ³)
Lean Concrete	145 pcf (2323 kg/m ³)

For specific design values and more detailed specifications, as well as design assistance, please contact the ELASTIZELL CORPORATION OF AMERICA or our local applicator below.



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