

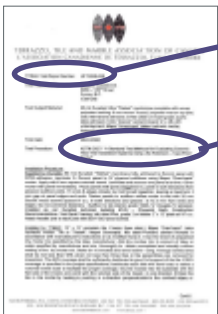
## ASTM C-627 Flooring Assembly Testing

ASTM C-267 is a test method which provides a standardized procedure for evaluating performance of floor tile assembly under conditions similar to actual usages. To better replicate a normal Duradek Ultra Tiledek installation, 4' x 13' - 9" wood framed tests beds were used.

The Terrazzo, Tile and Marble Association of Canada (TTMAC) conducted the tests using a Universal Floor Tester. The Universal Floor Tester, which is a redesigned of the Robinson Floor Tester, subjects the floor assembly to increasing cycles. The higher the cycles achieved the higher the assembly "service" listing obtained. Tests proceed until the assembly fails. A cracked grout joint or chipped tile is considered an assembly failure!

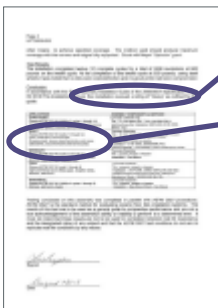


Three following Duradek Ultra Tiledek assemblies were tested:



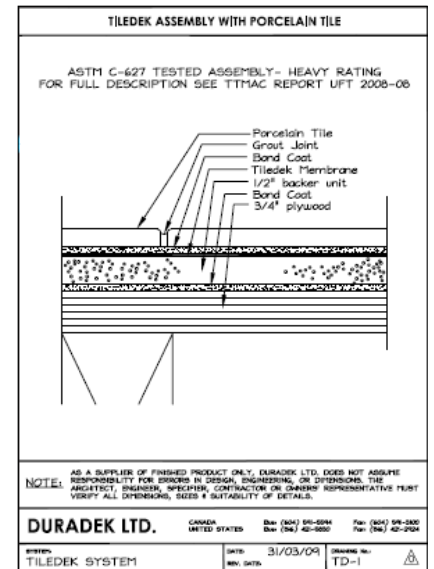
TTMAC Test Report # UFT2008-008

ASTM C627: "A Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson - Type Floor Tester"

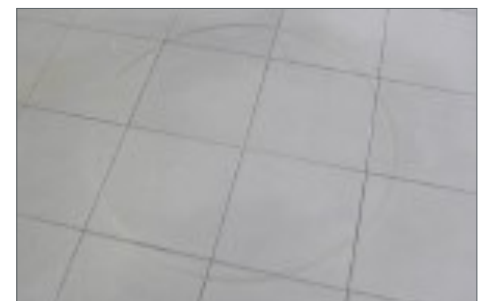


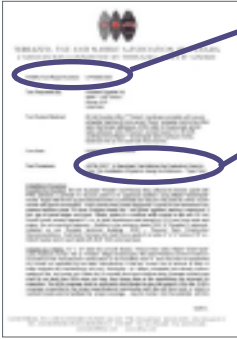
...rating of "Heavy"...

**HEAVY**  
(Passes ASTM C627-93 cycles 1 through 12)  
Shopping Malls, stores, airport terminals, work areas. Laboratories, auto show rooms and service areas.



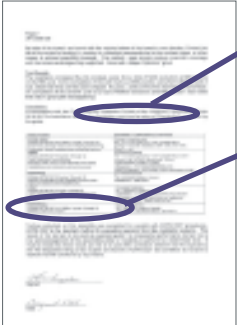
The assembly consisted of porcelain tiles bonded directly to Tiledek. The Tiledek was installed on a cement board underlayment with a plywood substrate. This assembly received a "Heavy" rating. This is the highest service rating available on a wood substrate. There was no failure of assembly. The assembly successfully completed 12 complete cycles for a total of 9000 revolutions at 600 pounds on the twelfth cycle, using steel wheels.





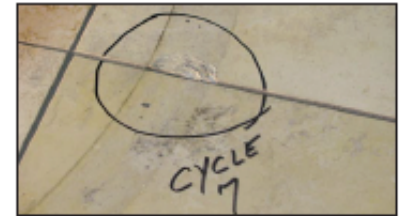
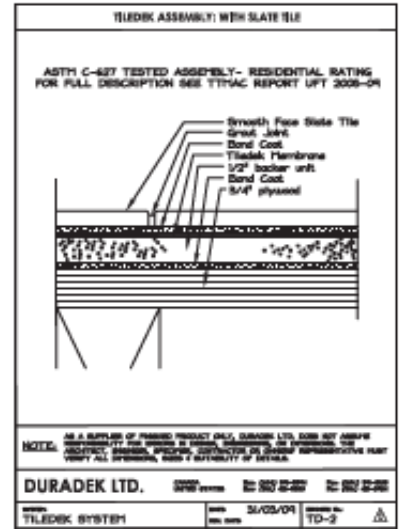
TTMAC Test Report # UFT2008-009

ASTM C627: "A Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson - Type Floor Tester"

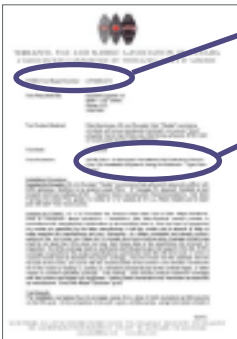


... rating of "Residential"..

RESIDENTIAL  
(Passes ASTM C627-93 (1999) e1 cycles 1 through 3) Kitchens, bathrooms, foyers

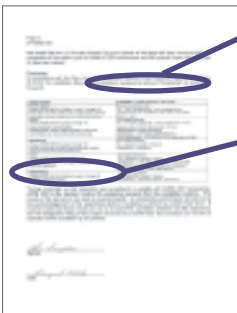


The assembly consisted of "smooth face" slate tiles bonded directly to Tiledek. The Tiledek was installed on a cement board underlayment with a plywood substrate. This assembly received a "Residential" rating. This assembly successfully completed 5 cycles for a total of 5400 revolutions at 900 pounds. On the seventh cycle three tiles chipped.



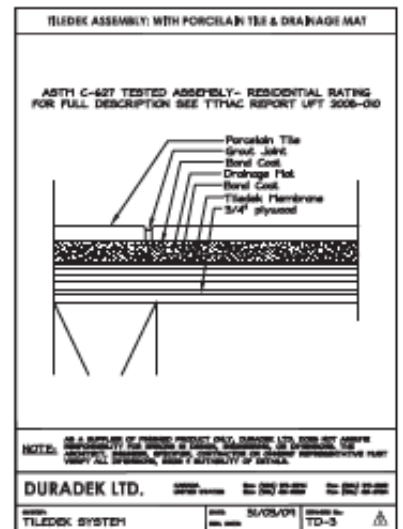
TTMAC Test Report # UFT2008-010

ASTM C627: "A Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson - Type Floor Tester"



... rating of "Residential"..

RESIDENTIAL  
(Passes ASTM C627-93 (1999) e1 cycles 1 through 3) Kitchens, bathrooms, foyers



The assembly consisted of porcelain tiles bonded directly to a drainage mat which was bonded to the Tiledek membrane. Tiledek was bonded directly to a plywood substrate. This assembly received a "Residential" rating. This assembly successfully completed 5 cycles for a total of 5400 revolutions at 900 ponds. On the sixth cycle one tile chipped.