

## TECHNICAL NOTE

### KTL finished ductile iron gratings

Where it is desirable to prevent oxidation on ductile iron gratings and maintain the original black appearance, then a KTL **corrosion resistant** barrier can be specified. Usually KTL is only needed when the gratings are occasionally trafficked or they are in a pedestrian area.

The ductile iron gratings are pre-treated and then submerged in a "cathodic" dipping tank. During this process, the gratings are polarized as cathodes (negative) with the desired thickness of finish achieved by varying the voltage level applied to the tank (positive) and the time the voltage is maintained. Afterwards, the gratings are stove-enamelled at 190°C.

Test results for corrosion and wear resistance are shown below.



**KTL corrosion resistant finish on METROPOLIS ductile iron grating**

### KTL Corrosion and wear resistance tests

NB: During the following tests, no corrosion or peelings of the KTL finish occurred:

Salt spray test acc. to DIN 50021 480 h  
Creep (DIN 53167) Wb max 2.5 mm  
Degree of blistering (DIN 53209) max m0 / g0  
Degree of rusting (DIN 53210) max Ri 1  
Edge corrosion (DIN 53230) max KR 2  
Scratch test max K 2  
Condensate water containing climates acc. to DIN 50017 480 h  
Degree of blistering (DIN 53209) max m0 / g0  
Degree of rusting (DIN 53210) max Ri 0  
Scratch test max K 2

For more information please contact the Hauraton Technical support office.

**Hauraton Limited, Unit 4, Frenchs Avenue, Dunstable, Bedfordshire LU6 1BH**

Tel: 01582 501380 Fax: 01582 501399 e-mail: [technical@hauraton.co.uk](mailto:technical@hauraton.co.uk)

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