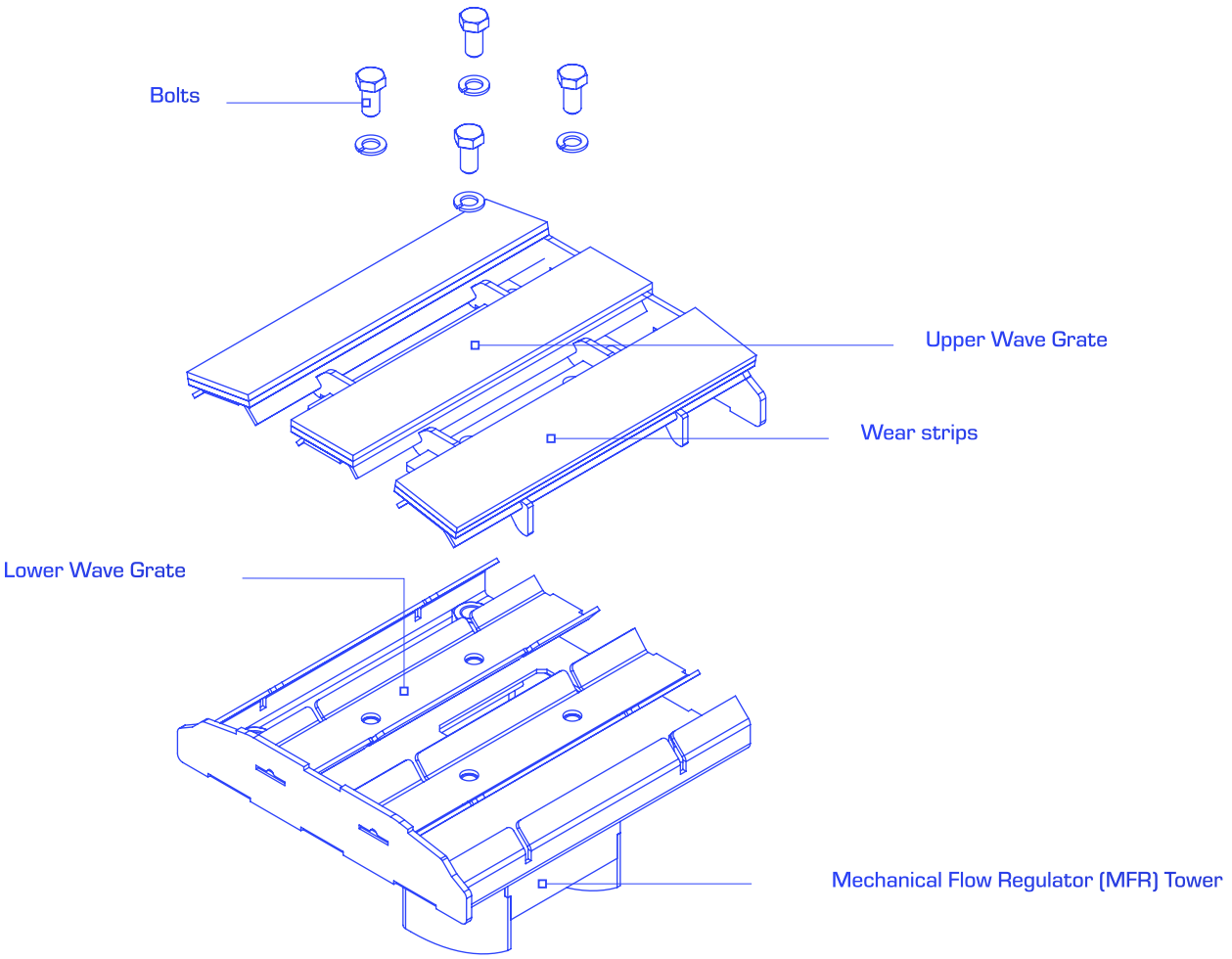
FULLER®

WAVE GRATE FOR YOUR SF™ AND MMC COOLER

Reduce power consumption and maintenance costs

DESIGNED TO REDUCE COSTS AND SAVE TIME

Operate and maintain your SF™ and MMC coolers more efficiently by switching to the Wave Grate. Compared with the original grates, the Wave Grate is also easy to clean and maintain, and has an increased wear lifetime. Once installed, you only ever need to replace the upper grate, which is fast and straightforward.



KEY BENEFITS

- Reduce power consumption
- Easy to clean and maintain
- Increase grate wear lifetime
- Fast and simple installation

LESS PRESSURE. MORE PERFORMANCE.

An approximately 8% reduction in total pressure drop means lower fan power consumption, or more cooling airflow where your cooler needs it most.

Reduce power consumption

Industrial test results show approximately an 8% reduction in total pressure drop, providing up to 0.5 kWh/t reduced power consumption of cooler fans when modifying all of your SF or MMC cooler grates

Increase heat recuperation efficiency

Many plants are stretching the cooler above its designed capacity. As an alternative to saving power, you could use the reduced pressure drop provided by the Wave Grate to increase the cooling airflow in a heavily loaded cooler, which could increase heat recuperation efficiency and reduce clinker exit temperature.

Save maintenance costs and time

The two-piece grate design means that the upper part of the grate can be removed, making it easy to clean inside the grate if needed. Meanwhile, the replaceable upper Wave Grate has an expected lifetime of more than five years.

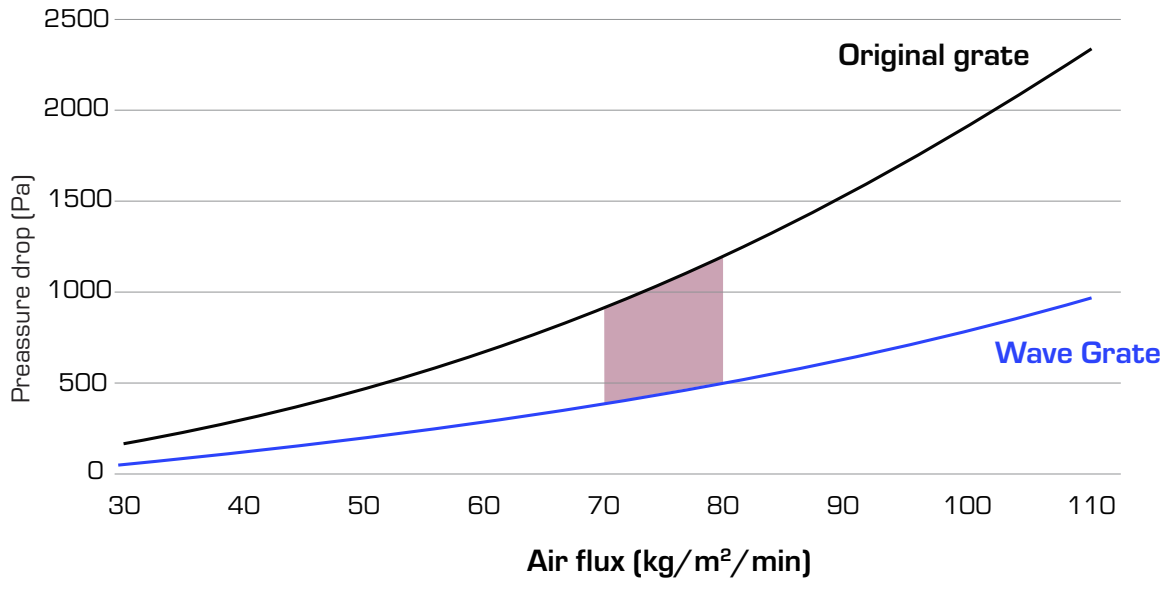
Changeout is simple: Wave Grate bolts are accessible above the cooler grate line. This is a significant advantage compared to the older grate design, which required access to both the top and bottom of the grate line. This presents another cost and time saving, as well as lowering maintenance risk.

	Original grate	Wave Grate
Pressure drop	770 - 1000 Pa*	330 - 430 Pa*
Expected wear lifetime	3-5 years	> 5 years
Design	Single piece grate	Two-piece design for easy maintenance
Wear replacement part	Entire grate/ side wear strip	Only upper part
Maintenance	Time consuming	Easy and simple

*Air flux 70-80 (kg/m²/min)

Fast return on investment

In comparison to the original grate design, Wave Grates typically achieve a full return on investment in less than one year.



Based on industrial tests, in the typical operating air flux range of 70–80 kg/m²/min, the pressure drop across the grates is reduced by ~ 60%, and the total pressure drop of the fan is reduced by ~ 8%.

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