

Kolmos Bertta

Blast furnace cement
CEM III/B 42.5 L – LH/SR

KolmosBertta is a blast furnace slag cement. As a LH and SR grade cement, it is suitable for use in concrete applications requiring sulphate resistance and low heat of hydration. Thanks to its low heat of hydration (270 J/g), KolmosBertta is ideal for massive concrete structures. Thanks to the high blast furnace slag mix, KolmosBertta is Finnsementti's most low-carbon cement, currently.

KolmosBertta is suitable for use in concrete alone or in combination with other binders, which gives the concrete manufacturer wide possibilities to implement various applications.

Cement properties	Requirements (SFS-EN 197-1)
Strength 7 d	≥ 16 MPa
Strength 28 d	≥ 42.5 MPa and ≤ 62.5 MPa
Initial setting time	≥ 60 min
Soundness	≤ 10 mm
Loss on ignition	$\leq 5\%$
Insoluble residue	$\leq 5\%$
SO ₃	$\leq 4.0\%$
Chloride content	$\leq 0.10\%$
Heat of hydration	≤ 270 J/g

Cement composition	Requirements (SFS-EN 197-1)
Cement clinker	$\geq 20\%$ and $\leq 34\%$
GGBFS	$\geq 66\%$ and $\leq 80\%$

Cement properties	Requirements (REACH N:o 1907/2006)
Cr6+	≤ 2 mg/kg

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