1	Dissolution-precipitation reactions of blast furnace slag and sodium
2	carbonate with 2,3-dihydroxynaphthalene
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10	Supplementary data
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26 Figure S1: Comparison of isothermal calorimetry results of sodium carbonate activated GBFS samples with

27 and without DHNP ligand using GBFS chemical composition used in the previous study [21] and this study.

Paste samples were prepared at a w/b ratio of 0.35 and ligand concentration of 25 mM like the previous
study.

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32 *Figure S2*: Normalised mass loss (NL_{Si} and NL_S) versus dissolution time for reference and ligand

33 system. Based on the replicated dissolution experiments, NL_S results had a standard deviation of \leq 34 $0.4 \mu g/cm^2$.





Figure S3: XRD pattern of solid samples after dissolution reaction times of a) Reference b) Ligand

Reference





40 Figure S4: TEM image of Mg-Al-Si-Ti-C rich smectite or LDH like precipitate of reference and
41 Ligand system samples after 30 d dissolution reaction time.

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