

Our Ref: WDS/05/9788/LETT001

13th April 2026

3 Marine Terrace
Whitehaven
Cumbria

For the attention of Mr Dugdale

RE: Structural Inspection, Chimney Stack, Rear Extension, 3 Marine Terrace

Dear Sir,

As requested I carried out a structural inspection of the chimney stack to the rear extension of the above referenced property and note the following:-

1. The survey comprised a non-disruptive visual structural inspection of the chimney stack located above the rear gable of the rear extension to the above referenced property. No other element of the property was inspected at the time of this inspection.
2. The stack comprises a rendered clay brick built structure which projects over 3.5m above the ridge line of the extension (see photograph 01 attached). The stacks masonry is only one brick thick to the flues. The stack measures on plan 1125x500mm to the upper extent and 1355x500mm to the lower extent.
3. The masonry to the stack is in a poor condition and is at risk of collapse in high wind conditions. The mortar has perished and the bricks can be easily dislodged. Removal of the render was stopped as the hammer and bolster were easily loosening the brick elements (see photographs 02 and 03 attached). The stack needs taken down and rebuilt. We understand that the flues within the stack are not used for fires, but there is a gas exhaust within one of the flues.
4. We have assessed the existing stack construction to withstand expected wind loadings to current standards, assuming it is rebuilt in the same brick with a sand cement mortar, and advise that in a 1:50 year wind event tension forces will occur in the masonry. Tension in masonry structures is not recommended. Moreover, a general stability check on the existing stack layout confirms that it will fail should a 1:50 year wind be experienced. We advise that the stack should be reduced in height when rebuilt to 1.0m above roof line such that it remains stable in an extreme wind event. I have attached a sketch outlining the proposed layout.

5. It appears that except for 3 Marine Terrace and the neighbouring property all the stacks to the other properties rear extensions on the terrace have been removed.

I hope you find the above acceptable however should you have any queries please do not hesitate to contact me.

Yours Faithfully



Mr Tom Short B. Eng. (Hons), C. Eng., MICE
For WDS Limited



PHOTO 1 VIEW ON STACK



PHOTO 02 VIEW ON TOP OF STACK



PHOTO 03 LOOSE MASONRY MID WAY DOWN STACK