

# Recycled Crushed Concrete Placing Guide



**Recycled crushed concrete aggregate has similar compaction characteristics as natural aggregates.**

## The key criteria are as follows:

When placing Recycled Crushed Concrete care should be taken to ensure that the product is not handled to many times. As with all aggregates, this will lead to segregation which will compromise density.

Primarily when installed as a lift, the aggregate should be at optimum water content. Typically, for recycled crushed concrete aggregate the optimum moisture content will be higher than for natural aggregate. This information can be provided as required to ensure optimum compaction.

Unlike natural aggregate if the recycled crushed concrete aggregate moisture content exceeds the optimum moisture content, it must be left to dry. As handling and compacting wet recycled crushed concrete will cause a slurry like paste. This will make it difficult to reach compaction results. It should also be noted that unlike natural aggregate where you have to work the “fat” to the top. While in recycled crushed concrete the “fat” is already there.

Compaction should be to an optimum number of compaction equipment passes. If the aggregate is over compacted there is the potential that aggregate breakdown will occur. Also over compaction will lead to a loss of density as the aggregate loses particle interlock. It is advised that plateau density testing is performed to determine the optimum amount of compaction passes for your compaction equipment and for the underlying ground/pavement conditions.

Once compacted, the aggregate layer can be tested for in service performance properties. However, it should be noted that Recycled Crushed Concrete has been correctly compacted at optimum moisture content will develop modulus strength over time.

**For further information or test results contact your local Atlas Concrete branch.**

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## Company operations and map references

