

Clean Angular Stone

Type 4/20

Specification for open graded subbase for use as storage below pervious pavements (also Coarse Aggregate in accordance with Series 500 Clause 503) Type 4/20.

Material to BS EN 13242 or BS EN 12620

Material to comprise crushed rock, concrete or blast furnace slag or similar approved.
Crushed rock from granite, basalt, gabbro
Concrete with more than 90% fractures faces.

Materials NOT permitted/NOT recommended:
Crushed gravel
Limestone
River gravel
Single size aggregate
Rounded aggregate

Properties	Test Method	Value	Comments
Grading	BS EN 13242	Grading 4/20 (Preferred) or 4/40, Gc 80/20, GTc 20/15	Aggregate size in mm
Fines Content	BS EN 13242	f ₄	Mass fraction of passing 0.063mm sieve <4%
Shape	BS EN 13242	FI ₂₀	Flakiness Index <20
Resistance to Fragmentation	BS EN 13242	LA ₃₀	Los Angeles coefficient <30
Durability:			
- Water absorption to BS En 1097-6:2000, Clause 7	BS EN 13242	WA ₂₄ 2	Water abs 24h <2%
- For WA > 2%, magnesium sulfate soundness	BS EN 13242	MS ₁₈	Magnesium Sulfate loss (by mass) <18%
Resistance to Wear	BS EN 13242	M _{DE} 20	Micro Deval Coefficient <20
Acid-soluble sulfate content:			
- Aggregates other than air-cooled blast-furnace slag	BS EN 13242	AS _{0.2}	Less than 0.2% by mass
- Air-cooled blast-furnace slag	BS EN 13242	AS _{0.1}	Less than 0.1% by mass
Total Sulfur:			
- Aggregates other than air-cooled blast-furnace slag	BS EN 13242	≤ 1 % by mass	
- Air-cooled blast-furnace slag	BS EN 13242	≤ 2 % by mass	
Volume Stability of blast-furnace and steel slags:			
- Air-cooled blast-furnace slag	BS EN 13242	Free from dicalcium silicate and iron disintegration in accordance BS EN 13242:2002, 6.4.2.2: V _s (expansion by volume less than 5%)	
- Steel slag	BS EN 13242		
Leaching of contaminants	BS EN 13242	Blast furnace slag and other recycled materials should meet the requirements of the Environment Waste Acceptance Criteria for inert waste when tested in accordance with BS EN 12457-3	

If compaction is required should be in 150mm layers with 4 passes of a smooth wheeled roller max weight of 1000kg/m width **without vibration**.

Aggregate gradings for sub-base materials to BS EN 12620

Recommended grading is 4mm to 20mm Type 4/20. Other gradings may be used such as 4/40, if they meet all the requirements.

NOT to use single size aggregate.

Sieve Size (mm)	Percentage Passing (%)	
	Coarse aggregate 4/40	Coarse aggregate 4/20
80	100	-
63	98-100	-
40	90-99	100
31.5	-	98-100
20	25-70	90-99
10	-	25-70
4	0-15	0-15
2	0-5	0-5

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Summary table: Cell Web

Various CBR values and loading conditions
with associated clean angular stone (Type 4/20) Sub-base depths



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Type of load	CBR 1.0%			CBR 2.0%			CBR 3.0%		
	Sub-base (mm)	Cellweb (mm)	Overfill (mm)	Sub-base (mm)	Cellweb (mm)	Overfill (mm)	Sub-base (mm)	Cellweb (mm)	Overfill (mm)
HGV (articulated lorries)	0	300	25	70	200	50	45	200	25
HGVs , Heavy Construction traffic	80	200	25	30	200	25	0	200	25
Trucks / Std construction traffic up to 30ton	70	200	25	20	200	25	40	150	25
Bin lorries, const traffic up to 20ton , Occasional fire, emergency vehicles, tractors	45	200	25	60	150	25	20	150	25
Delivery V's (7.5 tonnes)	20	200	25	35	150	25	55	100	25
Cars or light van (car parks)	50	150	25	60	100	25	25	100	25
Cars (driveways)	60	100	25	0	100	25	0	100	25
Pedestrians	20	75	25	0	75	25	0	75	25

Architecture,Planning,Interiors &
Landscaping.

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AL4

Proposed housing Development
At Moor Edge New Mills Rd
Birch Vale Proposed housing