

Million Years ¹	Geological Time Series/Epoch	Geological Time Stage/Age	Formal Group (Gp) Names	Formal Formation (Fm) Names	Formal Member (Mbr) Names	Informal Names and past Formal Names	Building Stone etc ²	Rock Type	Remarks
35-28	Upper Eocene - Lower Oligocene	Priabonian-Rupelian	Solent Gp	Bembridge Limestone Fm		Quarr Stone, Featherbed Limestone, Featherstone	Walling	Bioclastic porous freshwater limestone	Quarried in Isle of Wight, exported for use Southern England mainland
35-28	Upper Eocene - Lower Oligocene	Priabonian-Rupelian	Solent Gp	Bembridge Limestone Fm		Bembridge Limestone, Bembridge Stone, Wight Stone, Binsteed Stone	Walling	Fine-grained, dense, gastropodal freshwater limestones	Quarried in Isle of Wight, exported for use Southern England mainland
40-35	Eocene	Bartonian-Priabonian	Barton Gp	Barton Clay Fm	Barton Clay Mbr	Heath Stone	Walling	Clays + Iron-rich sandstone	Ironstone concretions
48-40	Eocene	Lutetian-Bartonian	Bracklesham Gp	Poole Fm		Heath Stone	Walling	Clays + Iron-rich sandstone	Ironstone concretions
56-48	Eocene	Ypresian	Thames Gp	London Clay Fm	Lytchett Matravers Sand Mbr & three others below	Heath Stone	Walling, bricks & tiles	Clays + Iron-rich sandstone	Ironstone concretions
59-56	Paleocene	Thanetian	Lambeth Gp	Reading Fm		Sarsen Stone	Walling & monuments	Silicified sandstones & conglomerates	Residual blocks on Chalk uplands and dry valleys
75-59	ABSENT IN DORSET								
94-75	Upper Cretaceous	Turonian to Campanian	Chalk Group: White Chalk Subgroup	(7 formations)	Various	Middle Chalk, Upper Chalk	Lime mortar, Flint Walling & Flint tools	Soft Chalk (limestone) with Flint (silica)	
100-94	Upper Cretaceous	Cenomanian	Chalk Group: Grey Chalk Subgroup	(3 formations)	Various	Lower Chalk; Beer Stone	Walling	Harder Glauconitic Chalk; Echinoidal calcarenite	Beer Stone formerly quarried inland, SE Devon
113-100	Lower Cretaceous	Albian	Selborne Gp	Upper Greensand Fm	Dorset: Four Members SE Devon: Three Members		Walling	Glauconitic Sandstone & Chert (silica)	
113-100	Lower Cretaceous	Albian	Selborne Gp	Gault Fm				Clay	
125-113	Lower Cretaceous	Aptian	Lower Greensand Gp	Lower Greensand Fm	Three Members			Sands	Lulworth Cove to Swanage only. Absent further West
140-125	Lower Cretaceous	Valanginian to Barremian	Wealden Gp	Wealden Fm		Weald Clay	Walling & Brick-making	Clays & Iron-rich pebbly sandstones	Durdle Door to Swanage (brickworks). Absent further West
145-140	Lower Cretaceous	Berriasian	Purbeck Gp	Durlston Fm		"Purbeck Marbles", "Burr" & three limestone "Veins" (& 7 bed names)	Walling, paving & monuments	Shelly fine-grained Limestones	Quarried in Isle of Purbeck
145-140	Lower Cretaceous	Berriasian	Purbeck Gp	Lulworth Fm		"New Vein" & "Cypris Freestone"	Walling	Hard fine-grained Limestones	"New Vein" Quarried in Isle of Purbeck. "Cypris Freestones" only Portesham-Poxwell area
147-145	Upper Jurassic	Portlandian ³	Portland Gp	Portland Stone Fm	Chilmark Mbr Wockley Mbr Tisbury Mbr	Chilmark Upper Building Stone Chilmark Main/Lower Building Stone	Walling	Creamy white oolitic limestone; Pale orange-greenish quartzose glauconitic limestone	Vale of Wardour, Wiltshire (Tisbury - Chicks Grove - Chilmark area)
147-145	Upper Jurassic	Portlandian ³	Portland Gp	Portland Stone Fm	Portland Freestone Mbr	Portland Stone	Walling & monuments	West: Fine-grained shelly Limestone Central: Oolitic limestone (best) East: Bioclastic Limestone	Three areas:- West = Portesham-Poxwell Portland. Central = Portland Portland. East = Purbeck Portland
149-147	Upper Jurassic	Portlandian ³	Portland Gp	Portland Stone Fm	Portland Chert Mbr	Portland Cherty Beds or Series	Stone tools	Chert (silica)	
152-149	Upper Jurassic	Portlandian ³	Portland Gp	Portland Sand Fm				Clay, silt, dolomite	
157-152	Upper Jurassic	Kimmeridgian	Kimmeridge Gp	Kimmeridge Clay Fm		Yellow Ledge Stone Band	Oil shale & Walling	Mostly shales + thin ferroan dolomite	Very local: Clavell Tower & Kimmeridge Bay old pier
158-157	Upper Jurassic	Oxfordian- Kimmeridgian	Corallian Gp	Abbotsbury Ironstone Fm		Abbotsbury Iron Ore		Iron-rich limestone/sandstone	Walling: Rare local use Iron Ore: Uneconomic (WW1)
159-158	Upper Jurassic	Oxfordian	Corallian Gp	Sandsfoot Fm				Sandstone	
160-159	Upper Jurassic	Oxfordian	Corallian Gp	Clavellata Fm			Walling	Shelly limestone	
161-160	Upper Jurassic	Oxfordian	Corallian Gp	Osmington Oolite Fm & Todber Oolite Fm		Osmington Oolite, Todber Freestone	Walling	Oolitic Limestone	
162-161	Upper Jurassic	Oxfordian	Corallian Gp	Nothe Fm				Sandstone	
164-162	Middle Jurassic	Callovian-Oxfordian	Ancholme Gp	Oxford Clay Fm	Stewartby Mbr & Weymouth Mbr	Oxford Clay		Shale	
164	Middle Jurassic	Callovian	Ancholme Gp	Oxford Clay Fm	Peterborough Mbr	Oxford Clay	Brick-making	Shale	
165	Middle Jurassic	Callovian	Ancholme Gp	Kellaways Fm		Kellaways	Brick-making	Clay & sandstone	
166	Middle Jurassic	Callovian	Great Oolite Gp	Cornbrash Fm		Cornbrash	walling	Shelly Limestone	Minor oil reservoir Wyth Farm
167	Middle Jurassic	Bathonian	Great Oolite Gp	Forest Marble Fm		Forest Marble	Walling & roofing	Shelly Limestone & Sandstone	
167	Middle Jurassic	Bathonian	Great Oolite Gp	Frome Clay Fm					
168	Middle Jurassic	Bathonian	Great Oolite Gp	Fuller's Earth Fm		Fuller's Earth Rock	Walling	Clay	
172-168	Middle Jurassic	Aalenian to Bajocian	Inferior Oolite Gp	Inferior Oolite Fm		Inferior Oolite: Local bed names, e.g. Burton Limestone	Walling	Shelly Oolitic Limestone	Lime mudstone with some ooids
175-172	Lower Jurassic	Toarcian to Aalenian	Lias Gp	Bridport Sand Fm	Ham Hill Limestone Mbr	Upper Lias: Ham Hill Stone	Walling	Iron-rich Shelly Sandy Limestone	South Somerset
175-172	Lower Jurassic	Toarcian to Aalenian	Lias Gp	Bridport Sand Fm	Two members	Upper Lias: Bridport & Yeovil Sands	Walling	Sandstone	Upper oil reservoir Wyth Farm
183-175	Lower Jurassic	Pliensbachian to Toarcian	Lias Gp	Beacon Limestone Fm	Two members	Upper Lias: Junction Bed	Walling	Fine-grained Limestone with fossils	Orange/pink in south Dorset. White in North Dorset
184-183	Lower Jurassic	Pliensbachian	Lias Gp	Dyrham Fm	Three members: Thorncombe Sands	Middle Lias	Walling	Clays, silts, sands	Walling: Bettiscombe only
197-184	Lower Jurassic	Sinemurian to Pliensbachian	Lias Gp	Charmouth Mudstone Fm	Four members	Lower Lias	Source Rock for Wyth Farm Oil Field	Clays & Shales	
201-197	Lower Jurassic	Hettangian to Sinemurian	Lias Gp	Blue Lias Fm		Lower Lias: Blue Lias	Walling & paving	Fine-grained Limestones	
203-201	Upper Triassic	Late Rhaetian	Penarth Gp	Fm	Langport Mbr	White Lias	Walling & paving	Fine-grained Limestone	SE Devon, adjacent Lyme Regis (Dorset)
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¹ Approximated from International Commission on Stratigraphy: International Stratigraphic Chart 2016/12² Any human use: Walling = Buildings & Boundary Walls; Paving = Flooring, Paving & Kerbstones; Monuments = internal & external (Churches, Graveyards, Cemeteries)³ Portlandian is the English local division, part equivalent to the Late Tithonian and Middle Volgian