

Product Technical Information

ITA/ATEXP/048

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TOISITE

INTRODUCTION

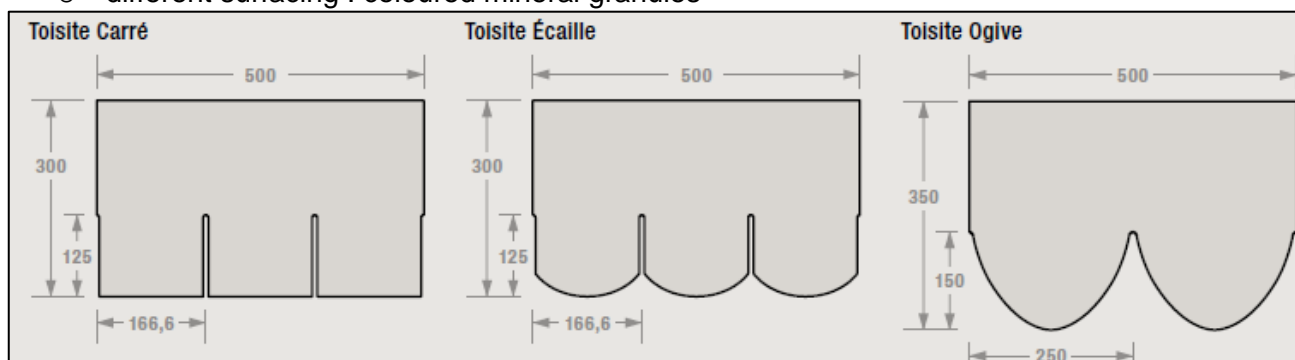
TOISITE is a thick and heavy glass-fiber shingle made by SIPLAST-ICOPAL complying with Technical Agreement 5/02-1650 delivered by the CSTB.

PRESENTATION

TOISITE is a thick roof shingles with a traditional tiles or slates coverings appearance.

These shingles are supplied with :

- three different shapes: square, round, oval.
- two thickness, 5 mm and 4 mm.
- different surfacing : coloured mineral granules



COMPOSITION

Upper face	mineral granules, slate
Blend	Special mix of fillerized bitumen
Upper reinforcement	min. 50 g/m ² glass-fibre mat
Lower reinforcement	min. 90 g/m ² glass-fibre mat
Under face	Plastic film
Thickness	5 mm depending of the mineral surfacing

COLOURS

Available colours are:

	TOISITE CARRE	TOISITE ECAILLE	TOISITE OGIVE
Slate grey 31	X	X	X
Granite grey 33	X	X	X
Grey stone 34		X	X
Brown flamed 41	X		
Red flamed 42	X	X	
Brick orange 47	X	X	
Ochre 49	X	X	X

ISO 9001 REFERENCE DOCUMENT

. Our company has been awarded the ISO 9001 certificate for all its establishments in France.

. The Technical Agreement TOISITE is the ISO 9001 reference document.



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SCOPE OF APPLICATION

- Shingles are applied on a continuous and nailable deck like wood planks, plywood or chips boards (exterior grade, damp-roof treated i.e.)
 - minimum slope : square and round shape = **30 %**. Oval shape = **40%**
 - normal fixing use 4 nails per shingle (slope < 200 %) 3 additional nails are required for slope >200%
 - normal overlapping is **50 mm** (may be increased depending of climate, roof slope and the length of the roof)
- consumption:
- square and round shape: **16 shingles /m²** (weight 17 to 19 kg/m² depending of granules)
 - oval shape : **13 shingles /m²** (weight ~ 16 kg/m²)

PACKAGING

TOISITE square tabs	Thickness (mm)	shingle/ m ²	Approx. shingle weight	Approx. weight/m ²	bundles	Bundles / pallet	pallet	Approximate Pallet weight
	5	16	≈ 1,1 kg	≈ 17,5 kg	1,5 m ²	36	54 m ²	950 kg

TOISITE rond tabs	Thickness (mm)	shingle/ m ²	Approx. shingle weight	Approx. weight/m ²	bundles	Bundles / pallet	pallet	Approximate Pallet weight
	5	16	≈ 1,1 kg	≈ 17.6 kg	1,5 m ²	36	54 m ²	950 kg

TOISITE oval tabs	Thickness (mm)	shingle/ m ²	Approx. shingle weight	Approx. weight/m ²	bundles	Bundles / pallet	pallet	Approximate Pallet weight
	5	13, 3	≈ 1,21 kg	≈ 18 kg	1,8 m ²	36	64,8 m ²	1160 kg

CHARACTERISTICS

	Norm	Unit	Nominal value	Critical value
Weight of bitumen	EN 544	g/m ²	1300	1300
Tensile strength	EN 12311-1	N/5cm	1300 x 1000	1000 x 700
Nail tearing resistance (cross direction)	EN 12310-1	N	200	150
Heat flow resistance	EN 1110	°C	90	
Reaction to fire	EN 13501-1			E
Adherence of granules	EN 12039	G		1.2

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PACKAGING

	Quantity/truck pallet	Quantity/container pallet	Quantity/wooden box
TOISITE square tabs	54	54	54
TOISITE rond tabs	54	54	54
TOISITE oval tabs	65	64.8	64.8

Transportation : these products are not classified as dangerous.

Note :

This product is in accordance with the European Building Rules for materials (UEAtc) and EN 544.
This is an only indicative data sheet. SIPLAST-ICOPAL reserves the right to modify the formula and the laying instructions due to technical and experienced improvements.