

TUFF WATERPROOFING LIMITED

HOME OF




AND

TuffTechPRO



CAPTAIN TUFFY SAYS
 "see and hear what I have
 to tell you on our
 company website"


info@tuffwaterproofing.co.uk

TuffStuff® GRP and TuffTechPRO® are brand names of Tuff Waterproofing Ltd



FS 622967



EMS 641663



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INTRODUCTION TO **TuffStuff®**

Seamless performance for maximum protection

The TuffStuff® GRP flat roof waterproofing system utilises the very latest polyester resin technology to provide a tough and permanent solution to the age-old problem of leaking flat roofs.

Developed through 25 years' experience in the manufacture and installation of GRP flat roofing, TuffStuff® is fully integrated - all components are designed to work with each other to produce a robust, heavy-duty membrane for faultless waterproof performance. With no seams or joints which are prone to leakage in other roof systems, TuffStuff®'s seamless membrane is formed in situ and fully bonded to the roof deck.

Quality that lasts

Customers can confidently expect a lifetime of leak-free, maintenance-free protection from their TuffStuff® installation. The membrane's extremely hard wearing structure installed onto a new timber decking tolerates light foot traffic and resists attack from ultra violet light.

To demonstrate TuffStuff®'s durability every Contractor receives a 25-year Product Warranty and naturally they will take responsibility for their own workmanship.



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Versatile and adaptable

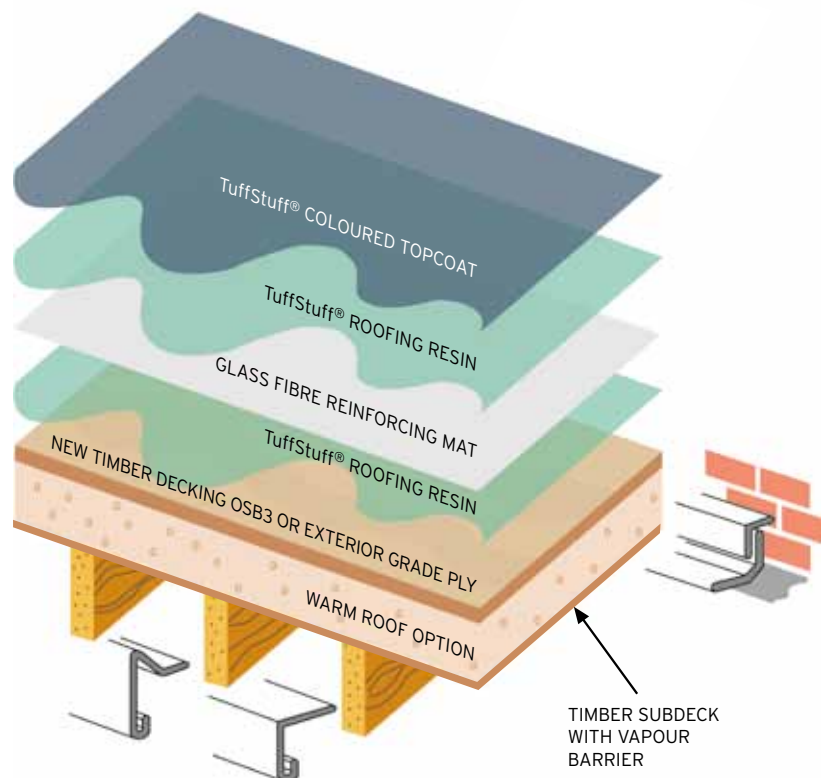
TuffStuff® is not only ideal for flat-roofing; it is highly versatile and can be used for almost any application of any size or complexity. Sloping roofs, green roofs and balconies can all be easily accommodated, as can pools, ponds or water tanks.

TuffStuff® can adapt to existing or new features such as parapet walls, skylights, vent pipes, sunpipes and balustrade. Support structures such as solar panels or air conditioning units can also be integrated either during or after installation.

TuffStuff® is available as standard in dark grey but a range of different colours are available on request. A slip-resistant finish can also be specified.



- ✓ Tough but attractive appearance
- ✓ High security - too tough to be cut by a knife
- ✓ High safety - UK Building Regs. Compliant Full Fire Certificate
- ✓ TuffStuff® - the fit and forget solution
- ✓ Choose TuffStuff® - choose peace of mind



TuffStuff® GRP is a brand name of Tuff Waterproofing Ltd
an ISO 9001 accredited company



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BEFORE



AFTER



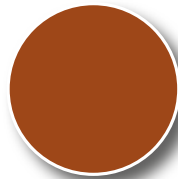
COLOUR RANGE



MOROCCAN SAND



MANOR GREY



SIENNA



URBAN GREEN



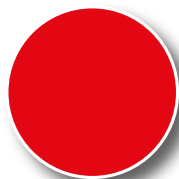
BROWNSTONE



PAVILLION GREEN



GREY SLATE (standard)



SIGNAL RED



SAPPHIRE BLUE



ANTHRACITE GREY



SUPER WHITE



MOONSTONE (non slip)

"Now available in a choice of attractive colours and textures to harmonise with any style of building and meet every aesthetic requirement."



Due to the limitations of the printing process actual colours may vary slightly from those shown.

“To demonstrate TuffStuff®'s durability every Contractor receives a 25-year Product Warranty and naturally he will take responsibility for his own workmanship.”



MATERIALS CALCULATOR

PRIMARY MATERIALS

ROOF AREA (m ²)	BASE COAT CANS	TOP COAT CANS	BANDAGE ROLLS	450gm GLASS-MAT (kg)	CATALYST (1kg/0.9 Litre)	DECKING BOARDS 2.4m x 0.6m x 18mm 1.4m ² per board
TuffStuff® CODES	TSP01	TSP02/2A	TSA57	TSP03/3A/3B	TSA38-43	
5	1 x 15kg	1 x 5kg	1	1 x 5.5kg	1	5
10	1 x 15kg	1 x 5kg	1	1 x 5.5kg	1	8
15	2 x 15kg	2 x 5kg	1	2 x 5.5kg	2	12
20	2 x 15kg	2 x 5kg	1	2 x 5.5kg	2	15
25	3 x 15kg	1 x 15kg	1	1 x 16.5kg	2	19
30	3 x 15kg	1 x 15kg 1 x 5kg	1	1 x 16.5kg	3	23
35	4 x 15kg	1 x 15kg 1 x 5kg	1	1 x 16.5kg 1 x 5.5kg	3	26
40	4 x 15kg	1 x 15kg 2 x 5kg	1	1 x 16.5kg 1 x 5.5kg	3	30
50	5 x 15kg	2 x 15kg	2	1 x 16.5kg 2 x 5.5kg	4	38
60	6 x 15kg	2 x 15kg 1 x 5kg	2	1 x 33kg	5	46
70	7 x 15kg	2 x 15kg 2 x 5kg	2	1 x 33kg 1 x 5.5kg	5	54
80	8 x 15kg	3 x 15kg	2	1 x 33kg 1 x 5.5kg	6	61
90	9 x 15kg	3 x 15kg 1 x 5kg	2	1 x 33kg 2 x 5.5kg	7	69
100	10 x 15kg	3 x 15kg 2 x 5kg	2	1 x 33kg 1 x 16.5kg	7	77

ADDITIONAL MATERIALS

ROOF SIZE (m ²)	3" ROLLERS	3" ROLLER SLEEVES	7" ROLLERS	7" ROLLER SLEEVES	SMALL PADDLE ROLLERS	LARGE PADDLE ROLLERS	SMALL BRUSHES	LARGE BRUSHES	ACETONE (LITRES)	SMALL BUCKETS	LARGE BUCKETS	TRIM ADHESIVE
TuffStuff® CODES	TSA51	TSA55	TSA52	TSA56	TSA53	TSA54	TSA47/8	TSA49/50	TSA45/6	TSA62	TSA63	TSA58
5	1	2	1	2	1	1	1	2	5	1	2	1
10	1	2	2	3	1	1	1	2	5	1	2	1
20	1	3	2	4	1	1	2	2	5	1	2	2
40	1	3	2	6	1	1	2	4	5	1	3	3
60	2	4	3	8	1	1	4	6	5	2	3	4
80	2	4	3	10	1	1	4	8	10	2	4	6
100	3	5	3	12	1	2	5	10	10	2	4	7

Preformed GRP edge trims are not included in this table. These are available in 3m lengths and have to be measured separately.

*If using the thicker heavy duty system (600gm mat) for example on balconies, walkways or critical applications you will need to use 33% more Base Coat due to the thicker heavier mat or 2 x 450gsm mat (double laminated) for green roofs and heavily trafficked areas.

TuffStuff® GRP is a brand name of Tuff Waterproofing Ltd

BASECOAT USAGE CHART

AREA (m ²)	BASECOAT RESIN (litres)
1m ²	1.2
2m ²	2.4
3m ²	3.6
4m ²	4.8
5m ²	6.0
6m ²	7.2
7m ²	8.4
8m ²	9.6
9m ²	10.8
10m ²	12.0
15m ²	18.0
20m ²	24.0
25m ²	30.0
30m ²	36.0
40m ²	48.0
50m ²	60.0
60m ²	72.0
70m ²	84.0

TOPCOAT USAGE CHART

AREA (m ²)	TOPCOAT RESIN (litres)
1m ²	0.5
2m ²	1.0
3m ²	1.5
4m ²	2.0
5m ²	2.5
6m ²	3.0
7m ²	3.5
8m ²	4.0
9m ²	4.5
10m ²	5.0
15m ²	7.5
20m ²	10.0
25m ²	12.5
30m ²	15.0
40m ²	20.0
50m ²	25.0
60m ²	30.0
70m ²	35.0

RESIN USAGE

& CATALYST CHARTS

How much catalyst do I need to add to Basecoat and Top Coat resins?*

TEMPERATURE	25-30°C	14-24°C	3-13°C	IN COLD CONDITIONS STORE THE RESINS IN A WARM ENVIRONMENT
CATALYST GRADE	EXTRA SLOW SUMMER	SUMMER	WINTER	

TEMPERATURE	20-30°C	13-19°C	9-12°C	4-8°C
PERCENTAGE *CATALYST	1% CATALYST	2% CATALYST	3% CATALYST	4% CATALYST

CATALYST REQUIRED (Millilitres) - always mix well

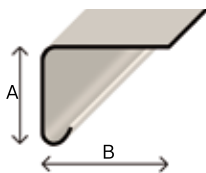
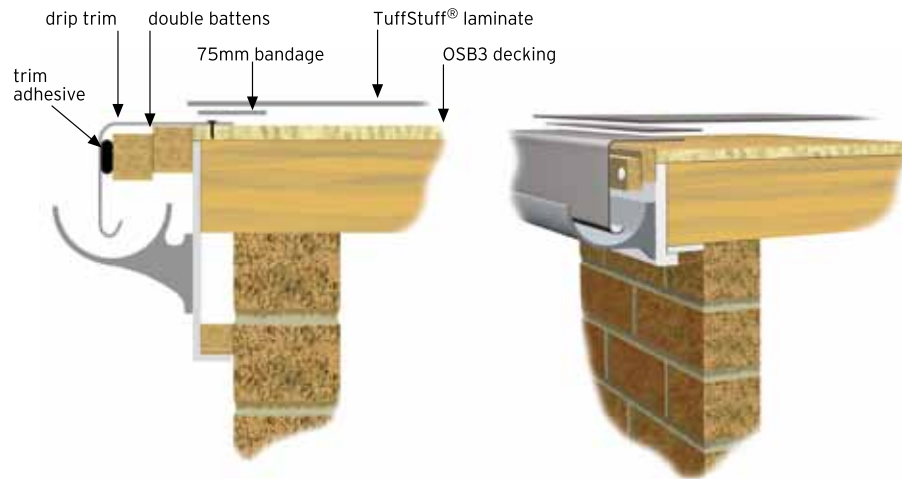
QUANTITY OF RESIN (Litres)	CATALYST REQUIRED			
	WARMER 1% MIN	2%	3%	COOLER 4% MAX
1	10ml	20ml	30ml	40ml
2	20ml	40ml	60ml	80ml
3	30ml	60ml	90ml	120ml
4	40ml	80ml	120ml	160ml
5	50ml	100ml	150ml	200ml
6	60ml	120ml	180ml	240ml
7	70ml	140ml	210ml	280ml
8	80ml	160ml	240ml	320ml
9	90ml	180ml	270ml	360ml
10	100ml	200ml	300ml	400ml

*The figures shown are a guide only and if in doubt as to the actual amounts of catalyst to be added for a given situation then prepare a small trial mix to ascertain the actual curing rate.



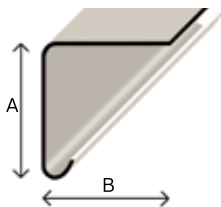


DRIP EDGE TRIMS



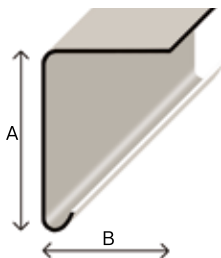
SMALL DRIP TRIM A170

Dim 'A' 65mm
Dim 'B' 90mm



STANDARD DRIP TRIM A200

Dim 'A' 90mm
Dim 'B' 90mm



DEEP DRIP TRIM A250

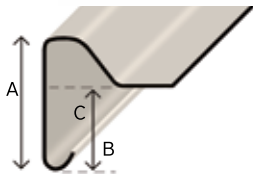
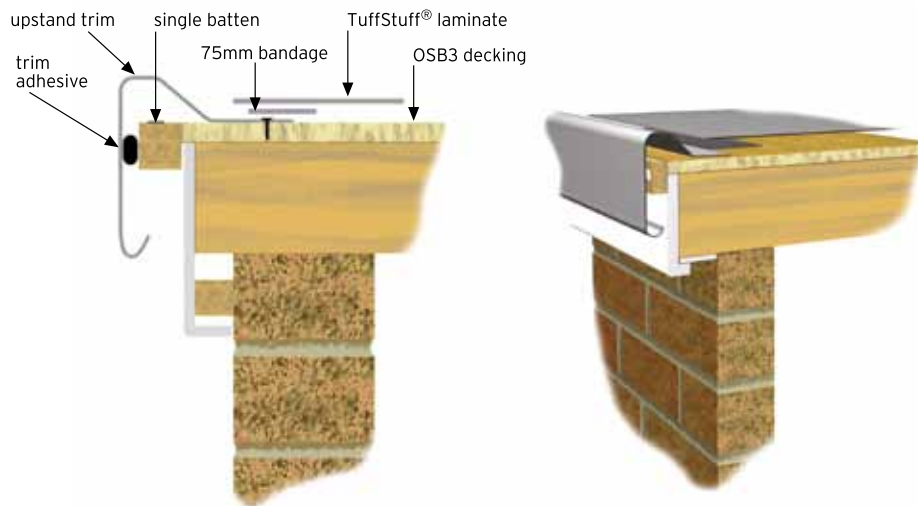
Dim 'A' 145mm
Dim 'B' 90mm

DESCRIPTION

- Trim fitted to lower edge of roof to guide rainwater into gutter
- All 3 metres long
- 3 sizes - small, standard and deep

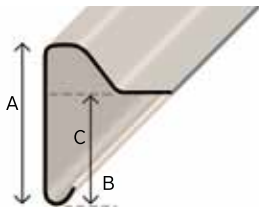
All dimensions are approximate

UPSTAND (RAISED EDGE) TRIMS



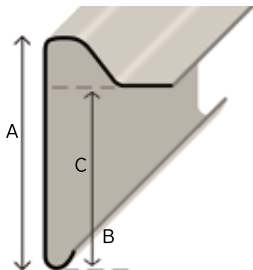
STANDARD UPSTAND TRIM (RAISED EDGE) B230

Dim 'A' 105mm
Dim 'B' 110mm
Dim 'C' 75mm



DEEP UPSTAND TRIM (RAISED EDGE) B260

Dim 'A' 125mm
Dim 'B' 110mm
Dim 'C' 95mm



EXTRA DEEP UPSTAND TRIM (RAISED EDGE) B300

Dim 'A' 175mm
Dim 'B' 110mm
Dim 'C' 145mm

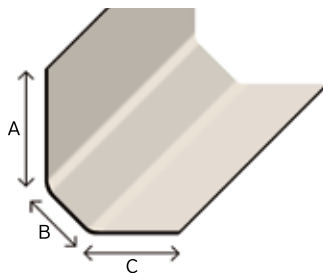
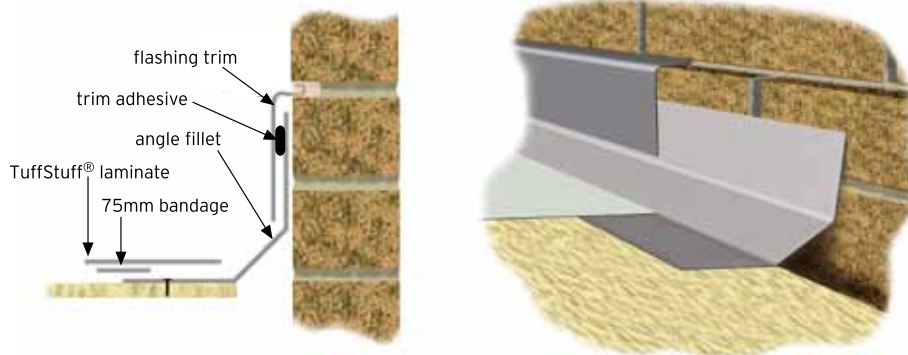
DESCRIPTION

All dimensions are approximate

- Trims fitted on perimeter of roof (non draining edges) to overlap fascia
- All 3 metres long
- 3 sizes - standard, deep and extra deep

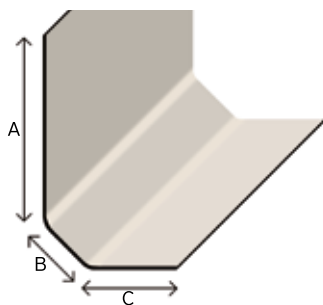


ANGLE FILLET TRIMS



STANDARD ANGLE FILLET TRIM (WALL FILLET) D260

Dim 'A' 115mm
 Dim 'B' 60mm
 Dim 'C' 75mm



LONG LEG ANGLE FILLET TRIM (WALL FILLET) D300

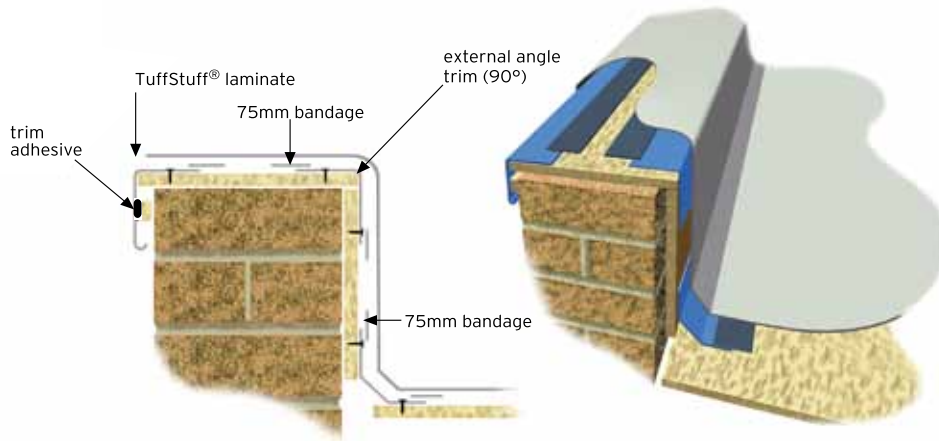
Dim 'A' 185mm
 Dim 'B' 60mm
 Dim 'C' 80mm

DESCRIPTION

- To be used at junction of roof and wall, in conjunction with C100/C150 Flashing Trims
- All 3 metres long
- 2 variants - standard and long leg

All dimensions are approximate

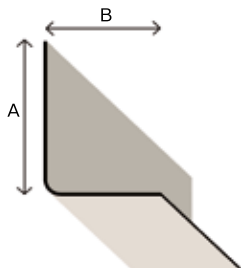
EXTERNAL ANGLE TRIM (90°)



INTERNAL ANGLE TRIM AT195INT

Dim 'A' 100mm
Dim 'B' 70mm

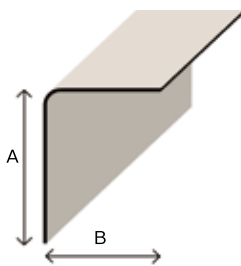
Inside face accepts laminate



EXTERNAL ANGLE TRIM AT195EXT

Dim 'A' 100mm
Dim 'B' 70mm

Outside face accepts laminate



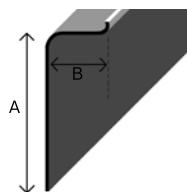
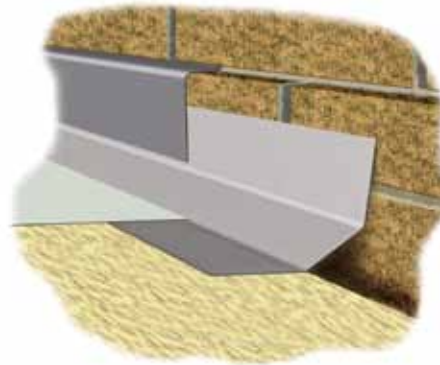
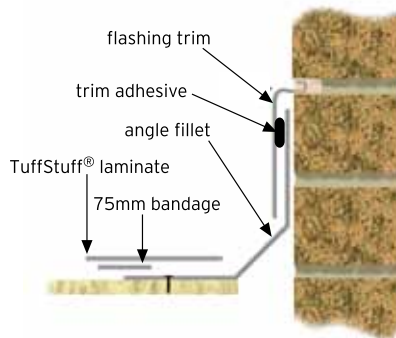
DESCRIPTION

- Used to trim a right angled corner
- 3 metres long

All dimensions are approximate

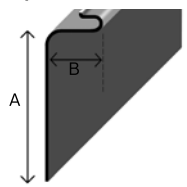


SIMULATED LEAD FLASHING TRIM



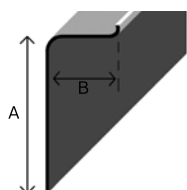
STANDARD SIMULATED LEAD FLASHING C100

Dim 'A' 100mm
Dim 'B' 30mm



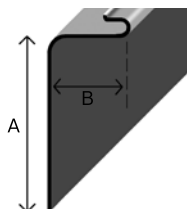
SIMULATED LEAD FLASHING & MOISTURE TRAP C100MT

Dim 'A' 100mm
Dim 'B' 35mm



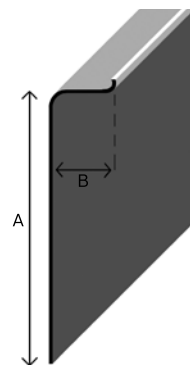
SIMULATED LEAD FLASHING + EXTRA PENETRATION C100L

Dim 'A' 100mm
Dim 'B' 50mm



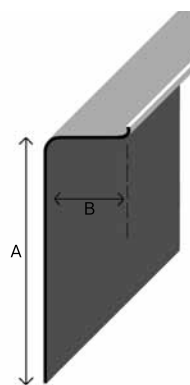
SIMULATED LEAD FLASHING & MOISTURE TRAP + EXTRA PENETRATION C100LMT

Dim 'A' 100mm
Dim 'B' 55mm



LONG LEG SIMULATED LEAD FLASHING C150

Dim 'A' 150mm
Dim 'B' 40mm



LONG LEG SIMULATED LEAD FLASHING + EXTRA PENETRATION C150L

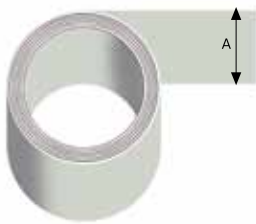
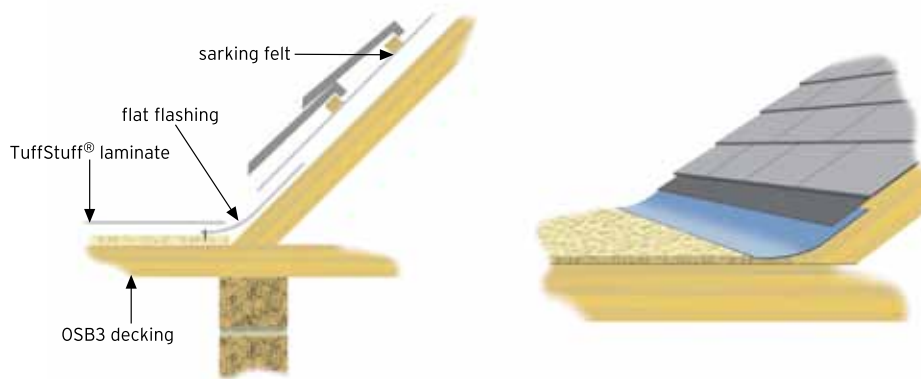
Dim 'A' 150mm
Dim 'B' 50mm

DESCRIPTION

- Trim fitted into wall to seal roof at junction of roof and wall, usually fitted over D260/300 Angle Fillet
- All 3 metres long
- 6 variants - C100 most commonly used

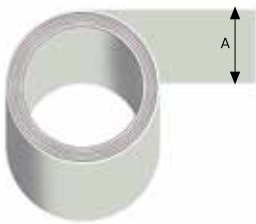
All dimensions are approximate

FLAT FLASHING ON A ROLL



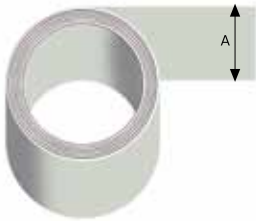
FLAT FLASHING (ON A ROLL) F300

Dim 'A' 300mm



FLAT FLASHING (ON A ROLL) F600

Dim 'A' 600mm



FLAT FLASHING (ON A ROLL) F900

Dim 'A' 900mm

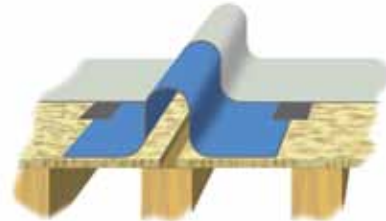
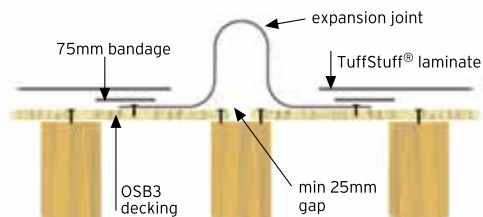
DESCRIPTION

All dimensions are approximate

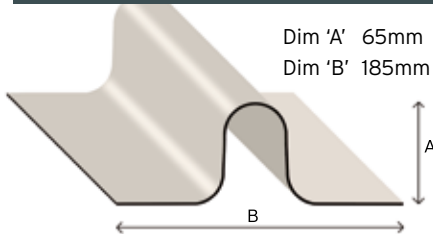
- To be used where a flat roof meets a pitched roof
- All 20 metres long
- 3 widths - 300mm, 600mm and 900mm



EXPANSION JOINT (RAISED RIDGE ROLL) + END CLOSURE



EXPANSION JOINT/RIDGE ROLL E280



EXPANSION JOINT CLOSURE C5

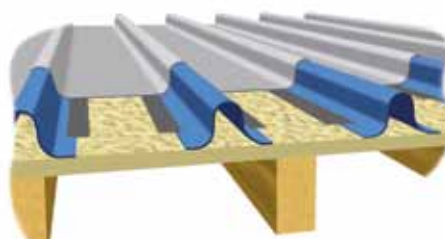


DESCRIPTION

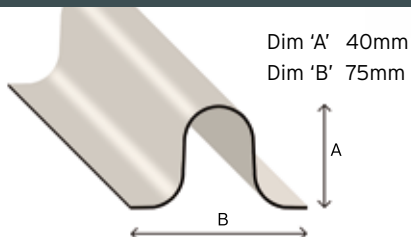
All dimensions are approximate

- Used to form an expansion joint on roof over 50 Sqm
- Also used on a ridge connecting two sloping roofs
- All 3 metres long

SIMULATED LEAD ROLL AND END CLOSER



SIMULATED LEAD ROLL E35/40



LEAD ROLL END CLOSURE C6



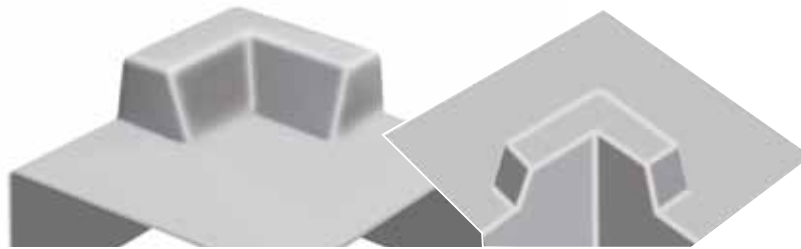
DESCRIPTION

All dimensions are approximate

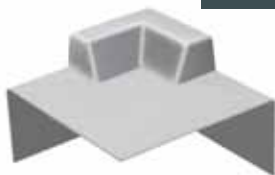
- Used to simulate lead rolls on flat decking
- Mechanically fixed through flanges and spaced at appropriate intervals before over laminating
- C6 End Closure available

PRE-MOULDED CORNER RANGE

- Many corners can be moulded using reinforcing mat and resin, these moulded items provide a quick, pre-made alternative



**UNIVERSAL EXTERNAL
CORNER C1**



**ANGLE FILLET TO ANGLE
FILLET EXTERNAL CORNER
C3EXT**



**ANGLE FILLET TO TRIM
C2L Left handed**



**UNIVERSAL INTERNAL
CORNER C4**



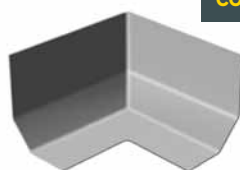
**ANGLE FILLET TO TRIM
C2R Right handed**



**SIMULATED LEAD
FLASHING INTERNAL
CORNER C7INT**



**ANGLE FILLET TO ANGLE
FILLET INTERNAL
CORNER C3INT**



**SIMULATED LEAD
FLASHING EXTERNAL
CORNER C7EXT**





PRODUCTS



TSP01

BASE COAT

15kg



TSP01A

BASE COAT

5kg



TSP02

TOP COAT

5kg GREY SLATE



TSP02A

TOP COAT

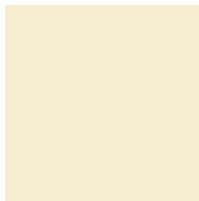
15kg GREY SLATE



TSC01

CLEAR TOP COAT

15kg - REQUIRES
PIGMENT



TSC02

MOROCCAN SAND

1.5kg PIGMENT



TSC03

MANOR GREY

1.5kg PIGMENT



TSC04

SIENNA

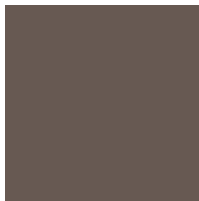
1.5kg PIGMENT



TSC05

URBAN GREEN

1.5kg PIGMENT



TSC06

BROWNSTONE

1.5kg PIGMENT



TSC07

PAVILLION GREEN

1.5kg PIGMENT



TSC08

MOONSTONE SLATE

25kg GRANULES



TSC11

SUPER WHITE

1.5kg PIGMENT



TSC12

SIGNAL RED

1.5kg PIGMENT



TSC13

SAPPHIRE BLUE

1.5kg PIGMENT



TSC14

ANTHRACITE GREY

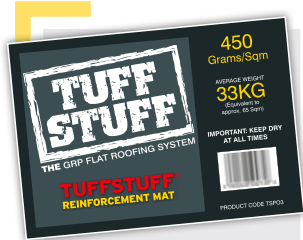
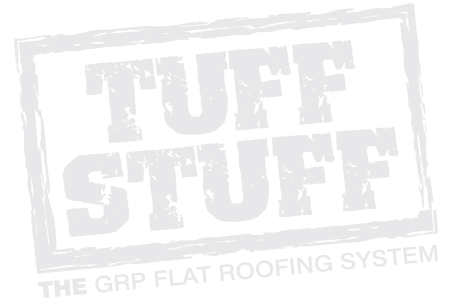
1.5kg PIGMENT



01977 680250



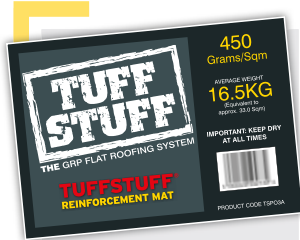
info@tuffwaterproofing.co.uk



TSP03

REINFORCING MAT

33kg - 450gsm
65sqm COVERAGE



TSP03A

REINFORCING MAT

16.5kg - 450gsm
33sqm COVERAGE



TSP03B

REINFORCING MAT

5.5kg - 450gsm
10sqm COVERAGE



TSP04

REINFORCING MAT

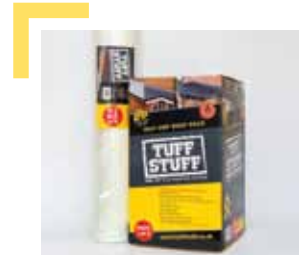
33kg - 600gsm
55sqm COVERAGE



TSP04A

REINFORCING MAT

16.5kg - 600gsm
27sqm COVERAGE



TST38

ROOF PACK

10sqm



TSA68

STARTER PACK

INITIAL SUPPLY OF
APPLICATION TOOLS



TSA38

CATALYST/HARDENER

5kg/4.5 LITRE - EXTRA
SLOW SUMMER GRADE



TSA39

CATALYST/HARDENER

1kg/0.9 LITRE - EXTRA
SLOW SUMMER GRADE



TSA40

CATALYST/HARDENER

5kg/4.5 LITRE
SUMMER GRADE



TSA41

CATALYST/HARDENER

1kg/0.9 LITRE
SUMMER GRADE



TSA42

CATALYST/HARDENER

5kg/4.5 LITRE
WINTER GRADE



TSA43

CATALYST/HARDENER

1kg/0.9 LITRE
WINTER GRADE



TSA44

**CATALYST SAFETY
DISPENSER**



TSA45

ACETONE
10 LITRE
TOOL CLEANER



TSA46

ACETONE
5 LITRE
TOOL CLEANER



TSA47

LAMINATING BRUSH
1" (BOX OF 12)



TSA48

LAMINATING BRUSH
2" (BOX OF 12)



TSA49

LAMINATING BRUSH
3" (BOX OF 12)



TSA50

LAMINATING BRUSH
4" (BOX OF 12)



TSA51

ROLLER
3" COMPLETE



TSA52

ROLLER
7" COMPLETE



TSA52XL

ROLLER
10" FRAME



TSA53

PADDLE ROLLER
3" EXTRA WIDE
DIAMETER



TSA53BX

PADDLE ROLLER
3" BUBBLE BUSTER



TSA54

PADDLE ROLLER
6" EXTRA WIDE



TSA54BX

PADDLE ROLLER
6" BUBBLE BUSTER



TSA54A

PADDLE ROLLER
9" EXTRA WIDE

TSA44BX



PADDLE ROLLER

9" BUBBLE BUSTER

TSA55



SLEEVES

3" PACK OF 10

TSA56



SLEEVES

7" PACK OF 10

TSA56XL



SLEEVES

10" PACK OF 10

TSA57



CSM BANDAGE

75mm WIDE
65m LONG

TSA58



TRIM ADHESIVE

GREY
POLYURETHANE

TSA59



TISSUE ROLL

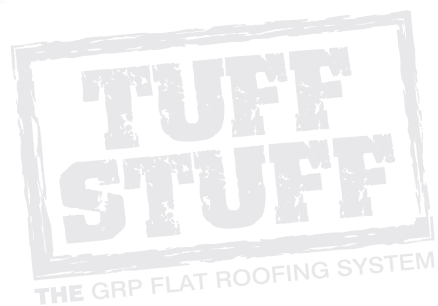
100m WIDE
300m LONG APPROX.

TSA60



TUFFSEAL

5kg EMERGENCY
REPAIR COATING - GREY



ready to order?
FOR ORDER FORM PLEASE
SEE PAGE 25/27

TSA61



G4 PRIMER

5kg POLYURETHANE

TSA61A



G4 PRIMER

1kg POLYURETHANE

TSA62



MIXING BUCKET

5 LITRE

TSA63



MIXING BUCKET

10 LITRE



01977 680250

info@tuffwaterproofing.co.uk



TSA64

MIXING BUCKET

14 LITRE GRADUATED



TSA64A

PRINTED BUCKET

5kg TuffStuff®
BUCKET WITH LID



TSA65

HAND CLEANER

5 LITRE



TSA66

HAND CLEANER

1 LITRE



TSA67

DISPOSABLE GLOVES

NITRILE BLUE POWDER
FREE - BOX OF 100



TSS71

TuffStuff®

INSTALLATION
GUIDE



TSS72

TRIM GUIDES

PACK OF 10



TSS73

LAMINATED CHARTS

QUICK MATERIALS AND CATALYST
ADDITION CHART - PACK OF 5



TSS74

EXTENSION POLE

6'



TSS75

WASH WIPES



TSS76

VAN STICKER



TSS77

THERMOMETER

WOODEN
THERMOMETER



TTP01

TuffTechPRO®

15kg - MEMBRANE



TTP02

TuffTechPRO®

225g/m² CHOPPED
STRAND MAT 60m x 1m



TTP04

TuffTechPRO®

225g/m² CHOPPED
STRAND MAT 30m x 1m



RE-ORDER FORM

STOCK CODE	PRODUCT DESCRIPTION	NO OF ITEMS REQUIRED
TSP01	Base Coat (15kg)	
TSP01A	Base Coat (5kg)	
TSP02	Top Coat - Grey Slate (5kg) (RAL7011 - Iron Grey) Fire Rated	
TSP02A	Top Coat - Grey Slate (15kg) (RAL7011 - Iron Grey) Fire Rated	
TSP03	450gsm Reinforcing Mat 33kg - 65sq m coverage	
TSP03A	450gsm Reinforcing Mat 16.5kg - 33sq m coverage	
TSP03B	450gsm Reinforcing Mat 5.5kg - 10sq m coverage	
TSP04	600gsm Reinforcing Mat 33kg - 55sq m coverage	
TSP04A	600gsm Reinforcing Mat 16.5kg - 27sq m coverage	
TTP01	TuffTechPRO® - Polyurethane Liquid Waterproofing Membrane 15kg	
TTP02	TuffTechPRO® - 225g/m² Chopped Strand Mat 60m x 1m wide	
TTP03	TuffTechPRO® - Cap Layer 5 Litres	
TTP04	TuffTechPRO® - 225gsm Chopped Strand Mat 30m x 1m wide	
TST05	A170 Drip Edge Trim Small (3m) (sold in 10's)	
TST06	A200 Drip Edge Trim Standard (3m) (sold in 10's)	
TST07	A250 Drip Edge Trim Deep (3m) (sold in 10's)	
TST08	B230 Upstand Trim (3m) (sold in 10's)	
TST09	B260 Upstand Trim Deep (3m) (sold in 10's)	
TST10	B300 Upstand Trim Extra Deep (3m) (sold in 5's)	
TST11	C100 Simulated Lead Flashing (3m) (sold in 10's)	
TST12	C100 MT Simulated Lead Flashing with Moisture Trap (3m) (sold in 5's)	
TST13	C100 L Simulated Lead Flashing with increased penetration (3m) (sold in 5's)	
TST14	C100 LMT Simulated Lead Flashing with increased penetration and moisture trap (3m)	
TST15	C150 Simulated Lead Flashing Long Leg (3m) (sold in 10's)	
TST16	C150L Simulated Lead Flashing Long Leg with increased penetration (3m) (sold in 5's)	
TST17	D260 Angle Fillet (3m) (sold in 10's)	
TST18	D300 Angle Fillet with long leg (3m) (sold in 10's)	
TST19	E35/40 Simulated Lead Roll (3m) (sold in 5's)	
TST20	E280 Raised Ridge Roll/Expansion Joint (3m) (sold in 5's)	
TST21	F300 Flat Flashing (20m) - approx. 300mm wide	
TST22	F600 Flat Flashing (20m) - approx. 600mm wide	
TST23	F900 Flat Flashing (20m) - approx. 900mm wide	
TST25	AT195 Int Internal Angle Trim (3m) (sold in 5's)	
TST26	AT195 Ext External Angle Trim (3m) (sold in 5's)	
TST27	C1 Universal External Corner	
TST29	C2L Fillet to trim left hand	
TST30	C2R Fillet to trim right hand	
TST31	C3 Int Internal Angle Fillet Corner	
TST32	C3 Ext External Angle Fillet Corner	
TST33	C4 Universal External Corner/Internal Corner	
TST34	C5 Roof Ridge/Expansion Joint Closure	
TST35	C6 Simulated Lead Roll Closure	
TST36	C7 Int Simulated Lead Flashing Corner (Internal)	
TST37	C7 Ext Simulated Lead Flashing Corner (External)	
TST38	10Sq m Roof Pack	

CONTINUED OVERLEAF ►►

STOCK CODE	PRODUCT DESCRIPTION	NO OF ITEMS REQUIRED
TSA38	Catalyst/Hardener (Extra Slow Summer Grade) 5kg/4.5 Litre	
TSA39	Catalyst/Hardener (Extra Slow Summer Grade) 1kg/0.9 Litre	
TSA40	Catalyst/Hardener (Summer Grade) 5kg/4.5 Litre	
TSA41	Catalyst/Hardener (Summer Grade) 1kg/0.9 Litre	
TSA42	Catalyst/Hardener (Winter Grade) 5kg/4.5 Litre	
TSA43	Catalyst/Hardener (Winter Grade) 1kg/0.9 Litre	
TSA44	Catalyst Safety Dispenser	
TSA45	Acetone - Tool Cleaner (10 Litre)	
TSA46	Acetone - Tool Cleaner (5 Litre)	
TSA47	1" Laminating Brush (in boxes of 12)	
TSA48	2" Laminating Brush (in boxes of 12)	
TSA49	3" Laminating Brush (in boxes of 12)	
TSA50	4" Laminating Brush (in boxes of 12)	
TSA51	3" Roller complete	
TSA52	7" Roller complete	
TSA52XL	10" Roller Frame	
TSA53	3" Paddle Roller - Extra wide diameter for reduced resin overspray	
TSA53BX	3" Bubble Buster Paddle Roller	
TSA54	6" Paddle Roller - Extra wide diameter for reduced resin overspray	
TSA54BX	6" Bubble Buster Paddle Roller	
TSA54A	9" Paddle Roller - Extra wide diameter for reduced resin overspray	
TSA54ABX	9" Bubble Buster Paddle Roller	
TSA55	3" Sleeves - in packs of 10	
TSA56	7" Sleeves - in packs of 10	
TSA56XL	10" Sleeves - in packs of 10	
TSA57	75mm wide CSM Bandage Approx. 65metre long	
TSA58	Grey Polyurethane trim adhesive	
TSA59	100mm wide Tissue Roll approx 300m long	
TSA60	TuffSeal - 5kg Emergency Repair Coating - Grey	
TSA61	G4 Polyurethane Primer 5kg	
TSA61A	G4 Polyurethane Primer 1kg	
TSA62	Mixing Bucket 5 Litre	
TSA63	Mixing Bucket 10 Litre	
TSA64	Graduated Mixing Bucket 14 Litre	
TSA64A	TuffStuff® Printed Bucket with Lid 15 litre	
TSA65	Hand Cleaner 5 Litre	
TSA66	Hand Cleaner 1 Litre	
TSA67	Disposable Nitrile Blue Powder Free Gloves (Box of 100)	
TSA68	Starter Pack - (Initial supply of application tools)	
TSS69	A5 Display Stand Flyers	
TSS70	A5 Colour Product Brochure (Pack of 50)	
TSS71	TuffStuff® Installation Guide	
TSS72	Trim Guides (pack of 10)	
TSS73	Laminated Quick Materials and Catalyst Addition Chart (pack of 5)	
TSS74	6' Extension Pole	
TSS75	Wash Wipes	
TSS76	Van Sticker	
TSS77	Wooden Thermometer	
TSC01	Top Coat Clear 15 kg - requires the addition of 1.5kg Pigment (see below)	
TSC02	Pigment - Moroccan Sand 1.5kg	
TSC03	Pigment - Manor Grey 1.5 kg	
TSC04	Pigment - Sienna 1.5kg	
TSC05	Pigment - Urban Green 1.5kg	
TSC06	Pigment - Brownstone 1.5kg	
TSC07	Pigment - Pavilion Green 1.5kg	
TSC08	Moonstone Slate Granules (Textured finish) 25kg - coverage approximately 10sq m	
TSC11	Pigment - Super White 1.5kg	
TSC12	Pigment - Signal Red 1.5kg	
TSC13	Pigment - Sapphire Blue 1.5kg	
TSC14	Pigment - Anthracite Grey 1.5kg	

TUFF STUFF

THE GRP FLAT ROOFING SYSTEM

PRODUCT WARRANTY

25 YEAR

product warranty CERTIFICATE

This certificate confirms that the TuffStuff® GRP system comprising TuffStuff® resins, reinforcement and profile trims, when used as a fully integrated system are warranted as watertight for a period of 25 years from the date of manufacture (or installation date if within 6 months of the manufacture date) when installed in accordance with the methodology set down in the TuffStuff® Installation Guide®.

This warranty is expressly given to all TuffStuff® stockists and contractors purchasing directly from such stockists.

In the unlikely event of water ingress caused by a failure in the laminate due to a manufacturing defect in the TuffStuff® resins then sufficient TuffStuff® resins will be supplied, free of charge to your contractor, to make watertight that area of the roof which has failed.



TuffStuff GRP is a brand name of Tuff Waterproofing Ltd

REV.6. MAY 2017



CONDITIONS

1. The limit of all liability is the replacement cost of the defective TuffStuff® materials.
2. For a valid claim to be considered the contractor must keep records of all batch numbers affixed to all TuffStuff® resins together with purchase receipts in respect of these products. This information is required at the time of any claim to ensure that only genuine TuffStuff® products have been used throughout the installation.
3. This warranty may not be transferred to third parties.

Exceptions

1. Damage caused by any peril capable of being insured under a policy of insurance whether or not such policy is effective or in force.
2. Damage caused by excessive foot traffic. TuffStuff® is designed for light foot traffic only such as occasional access or for maintenance purposes.
3. Excluding cosmetic damage imperfections and/or flaws which have not caused water ingress to the area below.

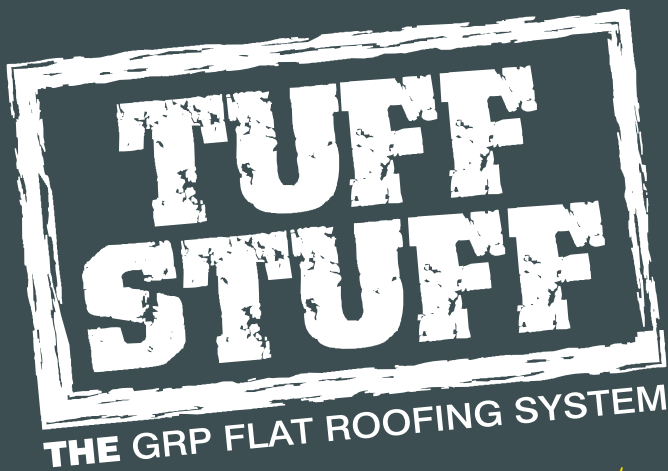


FS 622967



EMS 641663





CERT NO: _____

*workmanship
guaranteed*

INSTALLER COMPANY NAME: _____

INSTALLER ADDRESS: _____

PROVIDED BY: _____

TEL NO: _____

CERTIFICATE HOLDER NAME & ADDRESS: _____

TEL NO: _____

LOCATION OF INSTALLATION: _____

TEL NO: _____

TYPE OF ROOF: _____

BRIEF DESCRIPTION OF INSTALLATION: _____

INSTALLATION DATE: _____

INSTALLATION VALUE (ex VAT): £ _____

BATCH NO. BASECOAT: _____

BATCH NO. TOPCOAT: _____

THIS IS A GUARANTEE OF WORKMANSHIP ISSUED BY THE INSTALLER (AS DETAILED ABOVE). THIS IS NOT A GUARANTEE FROM THE MANUFACTURERS OF THE PRODUCT. THE MANUFACTURERS CANNOT BE HELD RESPONSIBLE FOR INCORRECTLY INSTALLED MATERIALS OR ANY SUBSEQUENT LOSSES ARISING THEREFROM.

I (we), The Installer, (The Installer is the company listed in the box above) guarantee(s) this GRP Flat Roof Installation is installed to the standard, specified by the manufacturer and will remain watertight for a period of not less than twenty five years from the installation date.

The Installer guarantees that if within a twenty five year period this installation does not remain watertight by reason of fault in preparation, installation or fixing procedure The Installer undertakes to repair, free of charge to the customer, that section of the roof in question.



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TuffStuff® GRP is a brand name of Tuff Waterproofing Ltd

workmanship guarantee

LIABILITY AND CONDITIONS

- a: The customer takes all reasonable measures to maintain the roof in a serviceable condition.
- b: The customer must advise The Installer in writing of any leaks arising in the roof within fourteen days of discovery. In the event of a claim being invalid (the roof is not the cause of the leak or there is no leak) the customer agrees to pay The Installer a reasonable call out charge for a survey and provision of a report in the sum of a standard hourly charge as would be expected depending on distance and time required. This is to be determined by The Installer.
- c: The Installers and Employees of The Installer must be given free access to the roof during normal business hours in order to inspect or repair the roof.
- d: This Guarantee shall be in respect of the service life of the installation overleaf in relation to the effects of normal weather conditions. It shall not apply if damaged by any other means such as subsidence, vandalism or tampering of any kind or excessive foot traffic over areas not previously stated by the client to be used for this purpose.
- e: This guarantee does not cover installations that have been altered, changed or tampered with in any way. The Installer shall not be liable for:
 - i: the cost of any routine maintenance, overhaul, modifications, loss or damage arising therefrom
 - ii: any damage or defect caused by any peril capable of being insured under a commercial property, household or similar policy of insurance (whether or not such a policy is effective or in force at the time) or for which compensation is provided by legislation
 - iii: any loss or consequential loss of any nature
 - iv: any damage caused by war risks, sonic booms, terrorism or nuclear radiation as provided by the insurers standard exclusion clauses
 - v: any damage or defect caused by storm or deterioration due to neglect in maintenance



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www.tuffstuff.co.uk

Certificate No: EW816



CERTIFICATION

This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration for the regulations in the countries indicated.

Tuff Waterproofing Ltd - TuffStuff® GRP Flat Roof System

DESCRIPTION OF PRODUCT

This is an assessment of TuffStuff® GRP Flat Roof System, a wet laid single ply GRP laminate made up of two layers of base coat resin sandwiching a layer glass fibre reinforcing mat. It is applied to a good quality new OSB3 or WBP plywood deck (18/25mm). Profiled GRP edge trims are applied to the roof edges and abutments and the roof is finished with a coat of coloured top coat resin. Can be used on balconies and walkways.

A 25 year product warranty is offered to TuffStuff® stockists and contractors, subject to terms and conditions.

Individual and group training sessions are available to installers. Installation Manuals and DVDs are available from all TuffStuff® Stockists.

Technical support available 24/7 to all installers.



KEY FACTORS ASSESSED

- Safety in case of Fire
- Health Hygiene and Environmental
- Safety in Use
- Energy Economy and heat retention
- Durability serviceability and identification

VALIDITY

This certificate was first issued on 13th January 2017 and is valid until 13th January 2021
Issue Dated 3rd January 2018



Certificate No: EW816

SCOPE OF REGISTRATION

The TuffStuff® GRP Flat Roof System relies on other construction products, materials and components to form a complete roof, balcony or walkway; overall compliance will therefore be dependent on final specification.

The TuffStuff® GRP Flat Roof System is fully bonded to the roof substrate and should resist wind suction likely to occur, provided the timber substrate is adequately fixed to the roof structure.

A GRP flat roof can be configured to satisfy cold roof or warm roof specifications.

A Non-Slip coating is available for balconies and walkways.

CONDITIONS OF CERTIFICATE

Site specific construction details will be required.

The products must be installed in accordance with the TuffStuff® Installation Guide.

REGULATIONS

LABC consider that, TuffStuff® GRP Flat Roof System will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;



THE BUILDING REGULATIONS 2010 (AS AMENDED) ENGLAND & WALES

Regulation 7	Materials and workmanship Note: The system can contribute to meeting this requirement.
AD B	Fire Safety Note: The system is acceptable.
AD C	Resistance to Moisture Note: The system is acceptable.
AD H	Drainage and Waste Disposal Note: Adequate provision shall be made for rainwater to be carried from the roof of the building.
AD L	Conservation of Fuel and Power Note: The system can form part of a roof construction to meet Part L. The thermal insulation performance of the system should be considered in the context of the contribution made to the overall performance of the roof structure.
AD M	Access to and Use of Buildings Note: Textured non-slip finish is available for balcony/walkways subject to light foot traffic.



THE BUILDING REGULATIONS 2010 (AS AMENDED) ENGLAND

AD L1	Conservation of Fuel and Power Note: The system can form part of a roof construction to meet Part L. The thermal insulation performance of the system should be considered in the context of the contribution made to the overall performance of the roof structure.
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THE BUILDING REGULATIONS 2010 (AS AMENDED) WALES

AD L1	Conservation of Fuel and Power Note: The system can form part of a roof construction to meet Part L. The thermal insulation performance of the system should be considered in the context of the contribution made to the overall performance of the roof structure.
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THE BUILDING (SCOTLAND) REGULATIONS 2004 (AS AMENDED)

Pending assessment

NON REGULATORY INFORMATION



LABC Warranty

The use of the TuffStuff® GRP Flat Roof System has not been assessed to meet the requirements of the LABC Warranty Technical Manual. If you would like to discuss a specific use please make an enquiry to technical.services@labcwarranty.co.uk



SUPPORTING DOCUMENTATION

BS 476 Part 3 External Fire Exposure Roof Test 346191 - F.AA (Exova Warrington)

BS 476 Part 3 External Fire Exposure Roof Test 325184 - F.AB (Exova Warrington)

BS EN 1928 : 2000, Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of watertightness (BBA Test Report No 55191)

BSI EN ISO 9001: 2008 - Quality Management System Certificate FS 622967

BSI ISO 14001:2004 - Environmental Management System Certificate EMS 641663

450gm Mat Material Safety Data Sheet

Acetone Safety and Data COSHH Sheet

Catalyst Material Safety Data COSHH Sheet

TuffStuff® Basecoat Safety and Data Sheet

TuffStuff® Polyurethane Trim adhesive Material Safety Data Sheet

TuffStuff® Topcoat Safety and Data Sheet

Installation Guide - June 2016 (Revision 7)

Preformed GRP Trims Brochure - February 2015 (Revision 5)

TuffStuff® Warranty Certificate - Specimen - September 2015 (Revision A)



INTRODUCTION TO TuffTech^{PRO}

POLYURETHANE LIQUID WATERPROOFING SYSTEM

TuffTech^{PRO}® VP/UV flat roof waterproofing system is a tough totally seamless waterproof encapsulating membrane for many types of flat roofs.

It is a high build, elastomeric, moisture triggered polyurethane membrane, comprising of three layers of advanced polyurethanes incorporating a separate technically advanced reinforcement layer. It cures to form a totally waterproof membrane across the whole roof area.

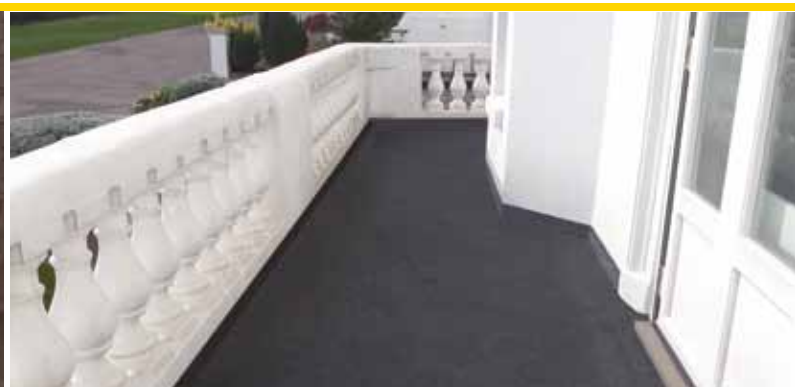
Introduction

TuffTech^{PRO}® VP/UV, with built in solar reflectivity, provides excellent thermal and UV stability for all climatic conditions. It is fast curing and will remain flexible throughout its service life. The complete system provides a seamless barrier against water ingress yet is vapour permeable.

TuffTech^{PRO}® VP/UV has excellent wetting out and moulding capabilities allowing complex shapes and details to be dealt with easily. Roof penetrations, ventilation and cooling plant can all be sealed and new plant easily accommodated.

TuffTech^{PRO}® VP/UV is cold applied and does not use any form of heat during installation. The use of heat or naked flames are now often prohibited by building insurance policies.

A TuffTech^{PRO}® VP/UV roof can be recoated at any time prior to the end of its maintenance life thus extending its working life indefinitely.



TuffTechPRO



TuffTechPRO® VP/UV can be applied to a wide range of substrates including:

- ✓ Felt
- ✓ Asphalt
- ✓ Concrete/Screeds (28 day cured)
- ✓ Fibre Cement
- ✓ Metals
- ✓ Polycarbonate
- ✓ PVC
- ✓ GRP
- ✓ Tissue Faced Insulation Board (Rockwool etc.)
- ✓ Glass (subject to an adhesion test)

Plus many other waterproofing membranes/systems. It has excellent adhesion properties and can be brush or roller applied.

FEATURES

- ✓ Totally Seamless
no welds, joints or overlaps
- ✓ Vapour Permeable
- ✓ Remains Flexible
throughout its service life
- ✓ Fast Curing
High Build, easy joint bridging
- ✓ UV Resistant

BENEFITS

- ✓ Long Life
- ✓ Complex Details
are easily accommodated
- ✓ Minimal Disruption
whilst work is carried out
- ✓ Can be recoated at any time
further extending life span
- ✓ Can be applied to most
flat roofing substrates



info@tuffwaterproofing.co.uk



Quoted coverage rates are for guidance only.

Product consumption rates are the responsibility of the end user.

For further assistance or training, please contact our Technical Support on 01977 680250.



TuffTechPRO

MATERIALS CALCULATOR

ROOF AREA	REFURBISHMENT	FULL SYSTEM	
(m ²)	Drum TTP01 (15KG)	Drum TTP01 (15KG)	Mat TTP02
5	1	1	1
10	1	2	1
15	1	2	1
20	1	3	1
25	1	4	1
30	2	4	1
35	2	5	1
40	2	5	1
50	2	7	1
60	3	8	2
70	3	9	2
80	4	10	2
90	4	12	2
100	5	13	2



Refresher + 25m² per tin

System = 8m² per tin

N.B. The performance and integrity of the TuffTechPRO® system is dependant on a sound, suitable substrate and surface conditions



FS 622967



EMS 641663

TuffTechPRO® is a brand name of Tuff Waterproofing Ltd

TuffTechPRO

TECHNICAL DATA

PROPERTIES	VALUES	METHOD
SPECIFIC GRAVITY (KG/M ³)	1.320 - 1.420	DIN 53 217
VISCOSITY AT 23°	2.650 cps	ASTM D2196-86
DRY EXTRACT	>90	EN 1768
FLASH POINT (°C)	42°C	ASTM D93
ASHES AT 450°C % WEIGHT	42-47%	EN 1879
TEMPERATURE	2°C and rising and not exceeding 30°C	
HARDNESS SHORE @ 23°C	C>75	
TENSILE STRENGTH	>3 MPa	
DRY TIME	2-8 hours. Fully cured 24 hours	
OVERCOAT TIME	±5 - ±48 hours	
ELONGATION	>400%	
WATER VAPOUR RESISTANCE	μ=2.500	
CONCRETE ADHERENCE	>2 MPA	





TuffTechPRO

APPLICATION GUIDE



Benefits and product information

- ✓ Approved for use on Green Roof.
- ✓ TuffTechPRO® can be used on new or existing roofs, walkways, balconies, gutters etc.
- ✓ Application with solvent resistant roller.
- ✓ Use fully reinforced with TuffTechPRO® REINFORCING MAT ensures correct thickness.
- ✓ Can be used all year round.
- ✓ Fully trafficable.
- ✓ Instantly rain resistant after application.
- ✓ Seamless membrane.
- ✓ Excellent adhesion to different substrates: plywood, bitumen membranes, asphalt, metals, brick, concrete, wood.
- ✓ Fresh concrete must be cured for 28 days.
- ✓ On EPDM and TPO it is recommended to install patch test to check compatibility.
- ✓ Never use silicone sealants. Always use PU based mastics.
- ✓ It does not require ADR transport.

Storage

- ✓ Store unopened in original container in a cool dry place within 5°C - 25°C out of direct sunlight.
- ✓ Protect from frost. Keep away from sources of ignition.
- ✓ For transportation purposes ensure that product is upright and the lid fully closed.
- ✓ Shelf-life 6 months. TuffTechPRO® can be used after a few weeks if opened, just remove skin and stir contents.

TuffTechPRO® application instructions

STIR BEFORE USE

1. Apply when ambient temperature is minimum of 2°C and rising and not exceeding 30°C
2. Ensure substrate is in good condition, dry, clean and free from dust, moss or lichen.
3. All edge trims to be fixed to substrate prior to application of TuffTechPRO®.
4. TuffTechPRO® is self-terminating.
5. Open tin and mix thoroughly before using.
6. Apply TuffTechPRO® straight out of the can onto the substrate using a solvent resistant roller. Dry roll TuffTechPRO® REINFORCING MAT into the product until the TuffTechPRO® is drawn through, then immediately apply another coat of TuffTechPRO® ensuring the matting fully embedded avoiding any pinholes.
7. It is advised to start at the perimeter of the area including upstands to a minimum of 150mm (if possible), ensuring the matting overlaps any trims, joints or change of material by 50mm.
8. Infill the remaining field area using the same method as above using TuffTechPRO® REINFORCING MAT, at a minimum coverage rate of 1.27Kg per m². The whole area including trims must be coated to form a continuous seamless membrane. A final layer at a rate of 0.6 Kg per square metre. Please take time to make sure no pin holes exist. Curing time is approximately 2-12 hours depending on weather. Fully cured in 24 hours. These are minimum coverage rates, actual performance will depend upon substrate surface.

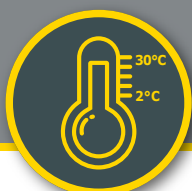
TOOLS

APPLICATION

DRYING

CLEANING

STORAGE



TuffTechPRO® is a brand name of Tuff Waterproofing Ltd





tuffstuffgrp



@tuffstuffgrp



Tuff Waterproofing Limited

keep in
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