1

B5 corrugated accessories

1. Cranked Crown Ridge	One piece close fitting ridge	4. Cemsix Barge Board	Used to close verge at gable ends. Nominal 200mm wing for single skin constructions and 300mm x 300mm for double skin. Lengths: 2400 and 3000mm	B5 corrugated fibre-cement sheets and matching B5 I translucent sheets			B5 P
-	wing in 5°, 12.5°, 20° Length: 1020mm Net cover: 910mm			1375mm (4' 6")	1525mm (5') (Translucent)	1675mm (5' 6")	Cover
				1825mm (6') (Translucent)	1975mm (6' 6")	2125mm (7') (Translucent)	Side la
				2275mm (7' 6")	2600mm (8' 6")	2750mm (9') (Translucent)	Min. e Max. p
	1			2900mm (9' 6")	3050mm (10') (Translucent)	3200mm (10' 6") (Translucent)	Overh
		5. Cemsix Roll Top Bargeboard	Used to close verge at gable ends.				Densit
2. Two-piece Close Fitting Ridge	Two piece ridge fitting adjustable to roof pitches not covered by standard cranked crown ridge. 320mm wing Net cover: 910mm		Nominal 200mm wing for single skin constructions and	B5 Colours		(with 15	
			skin.			10 10 10 10	Corrug
			Lengths: 1800mm (300mm x 300mm only), 2500 mm and 3000mm				Min. pi Fixing
		6. One-piece Finial	Closes verge apex when plain	Tile Red	Spanish Red	Olive Green	B5
			wing bargeboard is used. 320mm x 370mm				der 30r
3. Plain Wing Angle Ridge	Can be used to arreste high		· · · ·	Mocca	Black	Blue/Black	Fixin
	level ventilation 300 x 300 wing 5° to 60° in 5° increments Length: 1200mm Net cover: 1080mm	7. Two-piece Roll Top Finial	Closes verge apex when roll- top bargeboard is used. 200mm wing x 360mm deep				For tin 6mm c
							For ste 5.5mm
		F					All fixi
				Natural Grey			bitumi Maxim
W.		() II					* Minimur

B5 Product Range Lengths

Cemsix Colours

Profile specification comparison

	Existing 3" profile	New B5 profile
1	651mm	910mm
	782mm	1020mm (*10)
	131mm	110mm
	150mm	150mm
entres	925mm	1200mm
	250mm	250mm
	5.8mm	6mm (*0.6)
	1400kgm/m ³	1400kgm/m ³
oof id laps)	14.5kgm ²	13kgm²
	← ^{72.3mm}	130mm (:²)
IS	∕∕∏ 25.6mm	36mm (*2)
	10°	5° (see below)
s	2 nd and 9 th corrugation	2 nd and 6 th corrugation



- mber construction, fixings should be at least 90mm long and diameter drilled at least 40mm into purlin.
- teel construction, fixings should be at least 90mm long and diameter.
- xings should be used with an aluminium or EPDM washer and ninous gasket or plastic cap.
- num purlin centres 1200mm

num pitch - for small roof areas such as domestic garages pitches below 10° can be accommodated. End laps need to be extended to 300mm and be double sealed with mastic strips Produced in the traditional 6" UK profile with 6 corrugations and overlaps/underlaps on both sides of the sheet. Cemsix is available in three colour options. both with matching accessories.

- 1 Traditional grey fibre-cement corrugated sheet
- 2 Coloured corrugated sheet

Natural Grey

3 Cemscape Anthracite, a muted finish to give a pre-weathered appearance

All sheets and fittings incorporate our unique 3 stage coating process.



Anthracite





Cemsix Technical data

Available sheet lengths/weight per sheet			
1375mm (4'6")/20.78kg 1525mm (5')*/23.05kg 1675mm (5'6")*/25.32kg 1825mm (6')*/27.58kg 1975mm (6'6")*/29.85kg	2125mm (7')/32.12kg 2275mm (7'6'')/34.39kg 2440mm (8')*/36.88kg 2600mm (8'0')*/39.30kg 2750mm (9')*/41.57kg	2900mm (9'6'')*/43. 3050mm (10')*/46.1 3660mm (12')*/55.3	
Overall width	1086mm		
Net covering width	1016mm		
Thickness (nominal)	6.Omm		
Density (nominal)	1700kg/m³		
Pitch of corrugations	146.5mm		
Overall depth	54mm		
Side lap	70mm		
Minimum end lap	150mm		
Maximum purlin centre	1375mm		
Maximum rail centres	1825mm		
Maximum unsupported	350mm		
Approximate weight of end laps, single skin inclu	17 kg/m²		
Minimum pitch		5°	
Spaced roofing width tr	1000mm		

Size available as translucent sheet



Nominal Net cover 1016mm depth 54mm H Lap 70mm Fixing Nominal width 1086mm _____

Ensure that the first sheet at eaves is positioned so that all rain is captured by the rainwater gutters



Eaves filler piece

The commonest way of detailing the verge is to incorporate a bargeboard. If the roof is designed without a bargeboard the sheets should overhang the gable by one complete corrugation



Cemsix bargeboard



15

Overhangs, and end laps





Storage and Handling



site debris and accidental collision.

Rainwater, condensation and extreme weather conditions can also adversely affect the sheets (particularly coloured sheets) during storage.

- 2. Stacks without additional timber cross bearers should not exceed 1200mm. Cross bearers should be no more than one metre apart. Different length sheets should ideally be stacked separately, but if stacked with longer sheets they must be laid on the top and their cross bearers must line up vertically.
- 3. The sheets are supplied covered in shrink-wrapping. It is strongly recommended that the wrapping is NOT removed until the sheets are required for fixing. Should any sheets remain at the end of the working period, the edges must be covered.
- 4. If several stacks are to be laid one on top of the other, timber cross bearers should be placed at 50mm intervals up to a maximum height of 300mm. It is important that the ground is level and firm.



Whether the product is stored inside or outside, the stacks should be regularly a stack. Always consciously remove the inspected to ensure that moisture has not penetrated the coverings. Coloured sheets are particularly vulnerable at this stage.



. Coloured sheets and accessories should If it is not possible to store the product ideally be stored inside a building. Until inside a building, a suitable site should be the sheets are in position on the building selected. The ground should be firm and they could be subject to damage from level and as close to the construction work as possible. The sheets must be stacked on cross bearers, thus raising them off the ground.

> A simple protective frame should be constructed and covered with a waterproof material. Air must be allowed to circulate all round the stack. The whole frame and stack should be tilted to encourage rainwater to drain freely.



Crane handling should be careful to avoid damage to the edges of the sheets. Use rope slings (not chains) and over-width spreaders to eliminate the possibility of damaging the edges of the sheets.

The corners of the sheets are particularly vulnerable during transportation.



Never push, drag or slide a sheet from sheet by lifting from the stack. Similarly, lift the sheet into position on a roof, do not push or drag over the purlins or other roof sheets.

CEhlBRIT

CI/SfB | (4-) | Nf9 | | January 2018

Fix and forget guide for Cembrit corrugated sheet



Cemsix corrugated sheets



Features and benefits of fibre cement corrugated sheets



einforcement strips

hese polypropylene strips are embedded in ne sheets at manufacture to ensure compliance with ACR[M]001: 2000 Test for Fragility of ofing Assemblies for a non-fragile assembly.

ibre cement is rust and rot free and able to

cope with external weathering as well as the

wer noise levels

teel cladding materials generate high levels of wind chatter and rain drum. Fibre cement inimises these acoustic issues and creates a ign internal environment.



lensation reduction

e absorbency of fibre cement prevents densation formation and the dripping water onto livestock or produce, again ning a benign environment.

Cemsix corrugated accessories



Exposure and windloadings

Exposure, prevailing wind direction and wind loading are critical criteria in the design and specification process for corrugated sheeting, as they dictate lap, sealing and ixing specifications. Correct specification leads, in turn, to durable, secure and cost effective roofs (and walls) with minimal maintenance requirements.

Buildings located in open countryside with roofs or walls in the direct path of prevailing winds - such as coastal or elevated sites. or site unprotected by trees or other local cover - will be subject to severe exposure. The exposure zone for your building can be established from the wind-driven rain map, right.

BS 8104: 1992 'Code of practice for assessing exposure of walls to wind-driven rain' offers guidance on assessing exposure to wind-

Wind loading must be calculated and designed or in accordance with BS EN 1991 Eurocode 1: Actions on structures - Part 1-4: General actions

Sheltered to moderate sites

Less than 56.5 l/m² of wind-driven rain per spell

pitch	Minimum end lap	End laps treatment	Side laps treatment
	150mm	Unsealed	Unsealed
	300mm	Unsealed	Unsealed
	150mm	Sealed	Unsealed
	150mm	Sealed	Sealed
	300mm	Double sealed	Sealed

Exposure Zones

less than 56.5

Note: from BS 8219

more than 56.5

Highlands and Islands

per spell:

Approximate volume of

wind-driven rain (litres/m

Moderate to severe sites

Aore than 56.5 l/m² of wind-driven rain per spell

pitch	Minimum end lap	End laps treatment	Side laps treatment
	150mm	Unsealed	Unsealed
	150mm	Sealed	Unsealed
	150mm	Sealed	Sealed
	300mm	Sealed	Sealed
	300mm	Double sealed	Sealed

The minimum pitch for Cemsix corrugated sheet is 5°. On roof pitches between 5° and 10° the maximum slope length is 15m. For longer spans please contact Cembrit for advice.

Design

Cemsix corrugated sheet can be fixed to steel concrete or timber purlins. Fixing holes should be predrilled, or self-drilling, self-tapping top fix fixings can be used. Fixing should be undertaken according to BS 8219: 2001.



Pre-drilling

Every sheet should be twice fixed at each purlin



xtremely important that the correc of purlins/rail system, type of fixing and ashers are selected, to eliminate leakage/ prrosion and the general deterioration of e construction. It is recommended that a self-drilling Top-Fix screw is adopted. This imple method offers a fast, low-cost fixing olution. Using a high-speed screw gun, drive n the fixing. The fixing system is only suitable for roofs up to and including 30° pitch.



chieve a watertight and weathertight seal, it is important to confirm that the sealing washe correctly tightened. Not over tight, not too loose. After a period of time, when the material as settled, the fixings may require re-tightening with hand tools. Be sure to use roof ladders t avoid walking on the roof sheets.



EVER hammer fixing through the sheet. his will invalidate the guarantee. Fibreement sheets will shatter under impact nd subsequently allow water to penetrate e apparent fixing. ALWAYS pre-drill.

Note: Where B5 is used as a vertical cladding, sheets should be fixed in the valley of the 1st corrugation in from the overlap.

Mitring scheme

To avoid 4 layers of overlapping roof sheets, the corners of two sheets must be mitred.

Each mitre must be cut straight and cleanly either by hand or by power saw. The angle and size of mitre is governed by the end and side lap dimensions. It is recommended that a good quality butyl mastic strip is used to seal the overlapping sheets to provide a weatherproof join. Two corners of opposing sheets should be mitred the equivalent of the head and side lap (i.e. maximum 70mm x 150mm for Cemsix or 110mm x 150mm for B5) with a gap between sheets of 3-6mm.

Sheets on the perimeter of the roof will have one mitre (except the first and last sheets which remain complete), all other sheets will therefore have two mitres.

Always cut mitres on the ground not on scaffolding or on the roof slope.

Do not stack sheets on the roof.

Fixing the eaves course and sheets above rooflights requires 2 men

Do not wear loose clothing or Wellington boots when sheeting.

Do not walk on sheets or use sheets as a platform when working.

Fibre cement corrugated sheet is fragile. Safe access to the roof is paramount. Always use crawling boards roof ladders or walkways. Use safety netting below the roof and/or drop harnesses when working on the roof. Do not allow workers to operate below a roof being sheeted.

Clear loose material or tools from the roof as sheeting progresses.

Painted sheets and wet sheets could be slippery. Wind can make sheets difficult for one man to handle. Extra care should be taken in these circumstances.

` 90°

a tungsten carbide tipped drill at 9

ngle to the sheet, drill a hole 2mm large

n the selected fixing. The drill point

should be no less than 60° to the sheet.

Always drill at the 'apex' of the profile. Do

not fix a sheet in the 'valley' or on a 'slope

NEVER fix through 2 thicknesses of shee

ause sheets to crack.

this prevents thermal movement and w

of the profile.







Overlap sealing

The overlaps on low pitched roofs should be sealed with butyl strips, creating a windproof joint and protecting the fixing holes from wind driven precipitation.

At pitches of 5 degrees or below where double lap sealing is necessary (300mm endlaps) the second strip should be positioned 100-200mm below the fixing.



Fxample

Butyl strip is shown in dotted white beneath the Cemsix sheet (coloured orange for clarity) and in solid white below the (grey) Cemsix sheet in the next course above and below the adjacent (grey) sheet to the right.

Invest in quality

- Cemsix fully compressed high density corrugated sheet resists abrasion
- Cembrit's 3 part painting process gives superior finish on painted sheets
- High dimensional tolerance for neat alignment of sheets on the roof slope
- Full range of accessories includes; ventilation, ridges cranked crowns and closers
- Translucent sheets
- Stock in 3 locations

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s with all manufactured materials, colours and textures of corrugated sheets and accessories may vary according to light and weather conditions. It is advisable to ask for samples of sheets prior to specification and purchase. Owing to this and ations of the printing process, colours of sheets in this brochure may only be ken as indicative.

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