

- 1. General quality of materials and workmanship.
- 2. Tolerances in manufacturing process.
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1985	Monier Granite			
1995	Revised - Master Monumental Masons & Sculptors			
Association of South Australia				
2001	Revised - Stone Forum			
2004	Revised - Stone Industry SA Standards Board			
2006	Revised - Stone Industry SA Standards Board			
2008	Revised - Stone Industry SA Standards Board			
2010	Revised – Stone Industry SA Standards Board			
2012	Revised – Stone Industry SA Standards Board			
2015	Revised - Stone Industry SA Standards Board			

<u>Note:</u> The initiator and or agent of this Standard Code does not accept any claim whatsoever, by any party as a result of the use and or misuse of any part of this document.

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1. <u>GENERAL QUALITY OF MATERIALS AND</u> WORKMANSHIP

- 1.1Stone is a natural building material and,
therefore,
variations in texture, colour, consistency and
molecular structure occur. However as
natural
stone varies, it is recommended for the client
to
request viewing of the particular stone to be
used.
 - 1.2 <u>Spotting/Colour</u>



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STANDARD CODE FOR GRANITE AND MARBLE STONEWORK (MG C1) The presence of impurities, flairs, pit marks shall be deemed as being part of the natural stone. Colour variations may occur with particular types of stone that show a lot of texture and patterns. This is to be viewed as a feature of the stone.

1.3 <u>Workmanship</u>

Structurally unsafe stone members shall not be processed and installed in any structure or building. Processing, handling and installation of natural stone shall be carried out in a professional tradesman-like manner. Allowances for loads and conditions shall be made in the design stage - eliminating replacement due to failure of a stone member. On bench tops cabinets and support structures are to allow for sufficient strength to absorb design loads. Climatic conditions and light can alter a surface finish and change a colour of a particular stone. This is not a result of poor workmanship. 1.4 Samples Samples are not absolute guarantee as to colour, texture, and possible impurities and are indicative only of the stone type to be used.

1.5 <u>Generic Terms</u>

Marble, Granite, Sandstone, Limestone etc.

are to be

viewed as generic terms and their use characterises a particular family of rocks

2. <u>TOLERANCES IN MANUFACTURING</u> <u>PROCESS</u>

PROC	<u>ESS</u>				
	2.1	General			
not be or		Cracked and obviously unsound stone shall			
		processed as a stone member - carrying loads			
	ions.	being subjected to various weathering			
within		All stone shall be cut and surface finished			
within		a prescribed tolerance.			
	2.2	Tolerances			
sawn		(A) <u>Wall panels</u> polished, honed, gang-			
		 surface finish. (aa) Tolerances of length and width 0.6 M2 and under 			
	+ or -	1.5 mm			
	+ or -	2.0 mm (ab) Panels diagonals			
	+ or -	4.0 mm (ac) Elatness twist of papels			
	+ or -	 (ac) I hattess, twist of patients 1.5 mm (ad) Note: On exfoliated surfaces 			
adjustments o		n flatness and twist of papels			
are		allowed to be made in order			
to suit finished		the general plane of the			
		surface. These adjustments			
have to	o be	surface. These adjustments			
		made on the edges.			



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			(ba) 7	Folerances in length and width 0.6 M2 and under	
11=		+ or -	1.5 mm		
20		+ or -	2.0 mm	over 0.6 M2	
STONE			(bb) F	Panels diagonals	
STANDADDS		+ or -	4.0 mm		
JIANDARDJ			(bc) Flatness, twist of panels		
		+ or -	2.0 mm		
			(bd) <u>N</u>	<u>Note:</u> Exfoliated surfaces, flatness	
	and tw	vist			
	•.1			of panels - same rule applies	
	as with	1			
				wall panels (2.2 (ad)).	
2015 EDITION			(\mathbf{C})	Ponch Tong	
			$(\mathbf{C}) \underline{\mathbf{I}}$	<u>Selicit Tops</u>	
		l or	(ca) 1 3.0 mm	Tolerances in length and width	
		+ 0I -	(cb) F	Panels diagonals	
		+ or -	40 mm	ancis diagonais	
		1 01	(cc) F	Flatness, twist of panel	
01)		+ or -	1.5 mm	autorss, evise of partor	
			(cd) (Overhang tolerance - cabinet	
		+ or -	5.0 mm		
			(ce) 7	Thickness	
		+ or -	3.0 mm		
			(D) <u>4</u> H	Artistically Tooled Stone Members Hammered and nipped surface finish - 4 -	
			(da) T	Foloronoos of longth and width	
		+ or -	40 mm	tolerances of length and width	
		1 01	(db) I	Diagonals	
		+ or -	5.0 mm		
		2.3	<u>Impuriti</u>	<u>es</u>	
	oxide		On gang	-sawn and exfoliated surfaces - iron	
			particles washed stone, ap type.	s causing oxidation (rust) shall be out using appropriate solutions for opropriate to the particular stone	

<u>Floor panels</u> polished, honed gang-sawn, exfoliated surface finish. (B)

STONE **STANDARDS**

2.4	Recommended Thickness of Stone Members				
	(a)	Wall p	anels		
	30 mm	-			
	(b)	Floor	panels		
	20 - 30 mm	-			
	(c)	Wall p	anels - exfoliated		
	40 mm				
	(d)	Bench	Tops		
	20 - 30 mm				
	(e)	Note:	Variations in thickness does		
occur	due				
			to cutting and tooling		
metho	ds used.				

2.5 Surface Finishes

- Gang-sawn finish. (a)
- Exfoliated finish the surface shall (b)

spalled deep enough to remove

be flame

cutting marks.

- (c) Glass beaded finish.
- (d) Honed finish
- (e) Polished finish - stone shall be
- finished to a natural gloss within a

(f)

tolerance of plus or minus 15 Gloss

Units [GU] from the mean

average gloss measured on the panel.

Hammered finish - uniform bush

hammered finish.

the general

a

- Diamond Wire sawn. (g)
- Block sawn. (h)
- Brushed (i)
- (j) Water Jet Finish

3. TOLERANCES IN INSTALLATION PROCESS

3.1 General

All stonework shall be installed according to

trade practice for stonemasons, by competent tradesmen.

3.2 Technique

Variations of installation techniques warrant

deviation of tolerances applicable in individual circumstances.

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Bench Tops 4.0 mm nominal Wall panels / Cabinets 4.0 mm nominal Note: Irregularities in walls - Panels are to be cut in straight lines, measured to the mean rectangular and or parallel line. Variation in thickness of stone (ad) + or - 3.0 mm **(B) Bench** Tops Non visible surfaces and underside of (ba) bench tops are sawn - as standard. Standard lamination width is 100 (bb) mm max.. Wider then 100 mm is regarded as Non - Standard. (bc) Patching of edges caused by cutting and grinding is allowable. This applies also to joint locations where two panels are glued together. - 6 -(bd) Under slang bowls shall have a minimum stone overhang of 1 mm, up to 10 mm from the edge of the bowl.

(be) Drainer board depth tolerances

+ or - 2.0 mm

(bf) Sink installation - No screw clips to be used. The installation is

to be carried out by a licensed

plumber.

(bg) Kitchen Designers / Cabinet Makers are to allow for sufficient

strength of cabinets and or shelf supports. Bench Tops spanning over a void – as in a dishwasher section – requires a support under the stone in the front and back of the void.

(bh) Front edge skirting should avoid cutting angles of 45 deg. or less.

Preference should be given to butt up to the underside of the

bench top panel.

(bi) End panels should not be cut to 45 deg. or less, to form corner details.

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STANDARD CODE FOR GRANITE AND MARBLE STONEWORK (MG C1) Preference should be given to butt up to the underside of the bench top

panel. This detail should be applied when the end panel is supported by



- (bj) The maximum un supported overhang on Quartz Bench Tops is 200mm. This applies to 20 mm and 30 mm thick stone.
- (bk) The maximum un supported overhang on Granite and Marble Bench Tops is 300 mm on 30mm thick stone and 250 mm on 20 mm thick stone.
- (bl) Quartz Bench Top cut outs require a 150 mm minimum clearance from a panel joint and or panel end. The front and back strip section of such a cut out needs to be a minimum of 70 mm wide.
- (bm) On Quartz Bench Tops, L shapes are not allowed.
 On Granite Bench Tops, L shapes in general are not allowed, but can be made at the discretion of the stone mason.

3.5 <u>Fixings</u>

	All fixing materials shall be of good quality
and	
	strong enough to support load and stress
factors	
	which are of common nature. No guarantee
is given	
	whenever structural movements cause the
failure of	
	stone and fixing.
3.6	Cleaning
	All stonework shall be cleaned after
	installation with non-destructive, preferably
	PH neutral cleaning agents. On marble,
	trachite, sandstone and porphyric stone, none
of	
	the acids or acid forming cleaning agents
shall be	
	used.



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Sealing of stone is at the discretion of the supplier.

STONE STANDARDS

3.7 <u>Clearance of Veneer, Tops or Paving to</u> <u>Supporting Structure</u>

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(A) nominal

Tops

A) Wall panels to structure - veneer 20 mm

(B) Floor panels to structure

Allowance for mortar bed

20 mm nominal

(C) Stone Tiles/Panels to structure

4 mm nominal

(D) Counter panels to structure

0 - 5 mm nominal

(Depending on supporting structure)

3.8 <u>Structural joints - Flooring / Walling / Bench</u>

Structural joints, as defined, are placed to eliminate cracking

of the stone panel due to structural, thermal and or design

load principles. Typical locations of such joints are sink and oven locations as well as corner sections on bench tops. Placement of joints are at the discretion of the stone mason.

3.9 <u>Compounding Tolerances</u>

A compoundment of a manufacturing tolerance into the installation tolerance whenever occurring, shall be adjusted to split the compounded tolerance at the joint junction into half and half. This applies only if the tolerance compounds over the plane of a panel.

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STONE STANDARDS

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4. <u>HANDLING AND STORAGE</u>

	4.1 At the construction site or storage yard, the					
granite or marble						
least 1	least 100 mm of the					
	ground. If a multiple stacking of panels is to					
be per	formed	-	-1	.1		
bearer	s. in lin	e with	aken in positioning the	iber		
	.,	the preceding	one. To prevent stainin	ng,		
plastic	materia	al		~ • • • •		
stones	shall be placed between timber and finished					
stone	surrace.	Thin and over	size stone panels shall	be		
stored	in a ser	ni -	-			
		vertical position	on.			
	4.2	During handli	ng and storage, care sh	all be		
taken	to	C				
1	_	protect corner	s and sharp edges from	1		
damag	ge.					
5.	APPE	NDIX - STONI	E PROPORTION IND	EX		
	(A)	Veneer Claddings Walls				
fixed		10 mm thick	400 x 400 mm	Glue		
плец		20 mm thick	1200 x 1200 mm	Glue		
fixed			1000 000			
	Mecha	30 mm thick	1800 x 900 mm			
	-8-					
		40 mm thick	1800 x 1000 mm			
	Mecha	nical anchor fi	xed			
	(B)	<u>Floor Paving</u>				
		10 mm thick	400 x 400 mm	Glue		
fixed						
finad	Mantan	20 mm thick	600 x 600 mm	Glue		
nxea,	Mortar	30 mm thick	800 x 500 mm	Mortar		
fixed						
£. 1		40 mm thick	1000 x 600 mm	Mortar		
fixed						



20 mm thick 1500 x 600 mm Silicon fixed 30 mm thick 2500 x 1000 mm Silicon fixed 40 mm thick 2800 x 1000 mm Silicon fixed

(D) <u>Wall Blocks</u>

Bench Tops

fixed

(C)

proportions to

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advice shall be

requirement.

 100 mm thick 600 x 400 mm
 Mortar

 Note:
 The above index shows relative

 general principles. Engineering

 taken, to apply to a particular

Notes:



Standard Wall Panel Joint



Standard Floor Paver Joint Standard Joint Details Code MGC1

Standard Bench Top Joint

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