

## PHENOLIC TOILET DATA SHEET

(Global Architectural Industrial company)
GAICO

# **TOILET PARTITION DATASHEET**



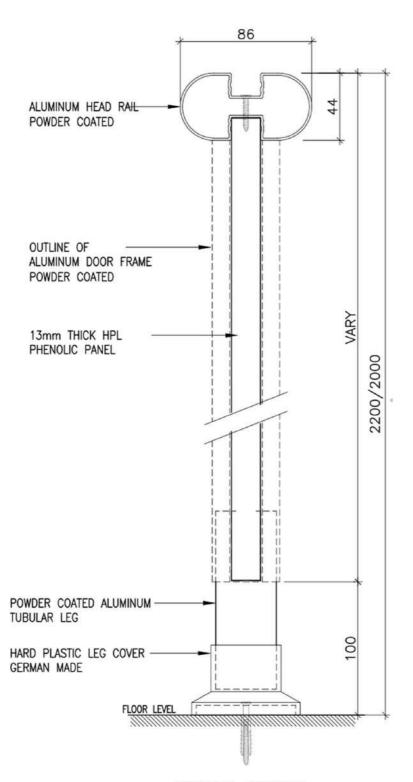




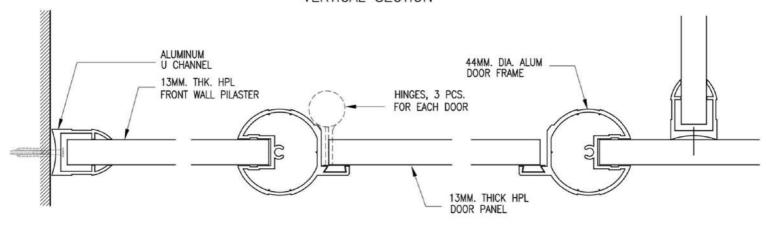




# **SHOP DRAWINGS**



VERTICAL SECTION



WALL STARTER DOOR JAMB INTERSECTION

# **ALUMINIUM DATA SHEET**



### **QUALITY CONTROL STANDARDS**

SCOPE: EXTRUSION STANDARDS

This specification in particular meets the requirement for architectural aluminum extrusions.

#### 1. ALLOY COMPOSITION

#### ALLOYS:

	%Cu	%Fe	%Mg	%Si	%Ti	%Zn	%Cr	%Mn
6063.30	0.03	0.16-0.22	0.47-0.57	0.39-0.47	0.02	0.025	0.03	0.03
6005.01	0.03	0.15-0.25	0.45-0.60	0.65-0.90	0.02	0.03	0.03	0.03
6351.01	0.03	0.15-0.25	0.55-0.70	0.90-1.20	0.005-0.020	0.03	-	0.45-0.65
	0.0000000	cent by weig cept where a		wn all value a	are maximum	Total .10	0	s each .03,

#### 2. MECHANICAL PROPERTIES

	Minimum yield strength Kg/mm²	Min-Ultimate Tensile Strength- Kg/mm <sup>2</sup>	Min.% Elongation In 50 mm/4D
6063.30 - T6	18	21	8
6005.01- T6	20	28	9
6351.01- T6	26	30	11

#### 3. HEAT TREATMENT

T6- Solution heat treatment and age hardened

T4- Solution heat treatment and naturally aged to a substantially stable condition.

#### 4. DIMENSIONS AND SHAPES

Dimension tolerances are divided into two categories as mentioned below:

#### 4.1 Category I:

Standard Dimensional tolerances, which meet DIN 1748 (part 4) applicable for all extruded sections, unless special tolerances are requested.

#### 4.2 Category II:

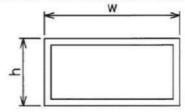
**Special** Dimensional tolerances, which meet DIN 17615 (part 3), and are only applicable for any system, or for any customer's special requirements.

To ensure that dimensions and shapes are within the specified limits, "DIMENSIONAL CHECKS" are made at every stage of production with the help of the standard measuring tools and "GO, NO-GO" gauges.



#### QUALITY CONTROL STANDARDS.

#### STANDARD DIMENSIONAL TOLERANCES

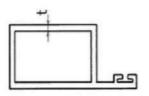


#### DIMENSIONS

Width (w) and Height (h)-mm

Over	То	Tolerance
		+
		-
-	10	0.3
10	15	0.4
15	30	0.5
30	50	0.6
50	80	0.7
80	100	0.8
100	120	1.0
120	150	1.2
150	180	1.5
180	240	1.9

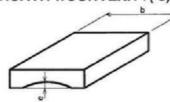
### DIN 1748 (PART 4)



WALL THICKNESS (t) mm

Over	То	Tolerance
		+
		-
-	1.5	0.2
1.5	3	0.25
3	6	0.3
6	10	0.35
10	15	0.4
15	20	0.5
20	30	0.60

### CONCAVITY/CONVEXITY(e) mm



Solid Sections:

e=0.005xb

(minimum 0.20 mm)

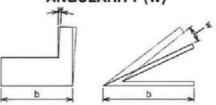
Hollow Sections:

e=0.01xb

(minimum 0.30mm)

Width (b)  Over Upto		Concavity/mm Convexity/mm	Concavity/mm Convexity/mm Solid	
		Hollow		
-	10			
10	15			
15	30	0.3		
30	50	0.5	0.25	
50	80	0.8	0.4	
80	100	1.0	0.5	
100	120	1.2	0.6	
120	150	1.5	0.75	
150	180	1.8	0.9	
180	240		1.2	

#### ANGULARITY (W)



W +/- 10 (0.0174xh)

W-being the deviation from the given angle h-being the part of the section

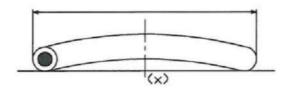
Widt	h (b)	Toleran	ces
ир	to		
-	30		0.5
30	100	0.01xb	1
100	200	0.008xb	1.6

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#### **BOW-mm**

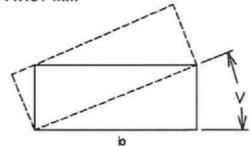
2mm/m increasing continuously over the full length of section. No single deviation per 300 mm shall exceed 0.3 mm.



Length of section in M	Upto 1	Over 1 Upto 2	Service Servic	Over 3 Upto 4			Over 6 Upto 7	Over 7
Tolerance in mm	-	4	6	7	8	9	12	***

<sup>\*\*\*</sup> Subject to mutual agreement





v=bx0.025 V= Torsion/Twist b=Side taken as basis to check the torsion/twist

Tolerance on twist for different lengths +/-

Width across flats Over mm	Upto & including mm	- Upto 1000	Over 1000 Upto 2000	Over 2000 Upto 3000	Over 3000 Upto 4000	Over 4000 Upto 5000	Over 5000 Upto 6000	Over 6000
-	25	1.0	1.5	1.5	2.0	2.0	2.0	
25	50	1.0	1.2	1.5	1.8	2.0	2.0	
50	75	1.0	1.2	1.2	1.5	2.0	2.0	Subject to
75	100	1.0	1.2	1.5	2.0	2.2	2.5	mutual
100	125	1.0	1.5	1.8	2.2	2.5	3.0	agreement
125	150	1.2	1.5	1.8	2.2	2.5	3.0	
150	200	1.5	1.8	2.2	2.6	3.0	3.5	

#### Fixed LENGTH (Sawn length/mm)

The tolerance also includes the angle in case the sawblade is out of the 90° angle.

Diameter of the

circumscribing circle Permissible dimensional deviations for fixed lengths

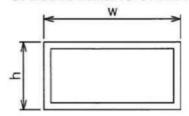
Over	Upto	Upto1000	Over 1000 Upto 2000	Over 2000 Upto 5000	Over 5000 Upto 8000	Over 8000
-	25	+2	+3	+5	+7	+10
		0	0	0	0	0
25	50	+3	+4	+6	+7	+12
		0	0	0	0	0
50	100	+4	+5	+7	+8	+14
255-800.1		0	0	0	0	0
100	250	+5	+6	+8	+10	+16
		0	0	0	0	0
250	300	+8	+8	+10	+12	+20
		0	0	0	0	0

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#### QUALITY CONTROL STANDARDS

#### SPECIAL DIMENSIONAL TOLERANCES

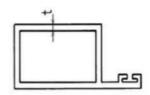


#### DIMENSIONS

Width (w) and Height (h)-mm

Over	То	Tolerance
		+
		-
-	10	0.15
10	15	0.20
15	30	0.25
30	45	0.30
45	60	0.40
60	90	0.45
90	120	.60
120	150	.80
150	180	1.00
180	240	1.20

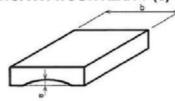
### DIN 17615 ( PART 3)



WALL THICKNESS (t) mm

Over	То	Tolerance
		+
		-
	1.5	0.15
1.5	3	0.20
3	6	0.25
6	10	0.30
10	15	0.40
15	20	0.50
20	30	0.60
30	40	0.70

#### CONCAVITY/CONVEXITY (e) mm



Solid Sections:

e=0.005xb

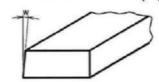
(minimum 0.20 mm)

Hollow Sections:

e=0.01xb

(minimum 0.30mm)

#### ANGULARITY (W)



W 1º (0.0174xh)

W-being the deviation from the given angle

h-being the part of the section which has to be the given angle

Widt	h (b)	Concavity/mm	
Over	Upto	+ or -	
-	40	0.20	
40	60	0.30	
60	90	0.40	
90	120	0.45	
120	150	0.55	
150	180	0.65	
180	210	0.70	
210	240	0.75	

Face to be		Tolerances		
considere Over	ed b mm Upto	+ or - mm	+ or - degree°	
-	40	0.3	0.5	
40	100	0.008xb	1	
100	300	0.006xb	1.5	

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# **HPL PANELS DATA SHEET**





TECHNICAL DATA SHEET - LAMINATES/HPL

## **TECHNICAL SPECIFICATIONS**

## LAMINATES/HPL



S. NO.	PROPERTIES	Unit	TEST METHOD AS PER EN 438 Part 2 : 2016	SPECIFIED VALUES	TYPICAL GREENLAM	
1	Classification		EN 438-3 Table- 3	HGS*	HGS*	
2	Product features		Electron Beam Cured, Anti Finger Print, Near Zero Reflection, Ultra Matt Surface, Thermal healing of micro scratches			
			NSIONAL PROPERTIES			
3	Product offer, L x B	M			1.30M x 3.05M	
4	Surface Quality	mm²/M²	EN 438-3-6.3, 5.2.4	1.0 (max)	Complies	
5	Fibers, Hairs & Scratches	mm/M <sup>2</sup>		10.0 (max)	Complies	
6	Thickness & Maximum variation	mm	EN 438-2 - 5	$0.70 \pm 0.10$	$0.70 \pm 0.05$	
				$0.80 \pm 0.10$	$0.80 \pm 0.05$	
7	Length & Width	mm	EN 438-2 - 6	+10mm /-0mm	+5mm /-0mm	
8	Flatness	mm/M	EN 438-2 – 9	60.0 (max)	≤ 50	
9	Edges Straightness	mm/M	EN 438-2 – 7	1.5 (max)	<u>≤</u> 50	
10		mm/M	EN 438-2 – 8			
10	Edges Squareness			1.5 (max)	Complies	
	B. I		RFACE PROPERTIES		_	
11	Resistance to Dry Heat at 160° C	Rating	EN 438-2 -16	Not worse than 4	5	
12	Resistance to Surface Wear	Revolutions	EN 438-2 - 10	150 (min.) IP	300	
13	Resistance to Stains					
	Group 1 & 2	Rating (min.)	EN 438-2 - 26	5	5	
	Group 3	Appearance		4	≥ 4	
14	Resistance to Wet Heat at 100°C	Rating	EN 438-2 - 18	5	5	
15	Resistance to Scratching	Rating	EN 438-2 - 25	5	5	
16	Resistance to Water Vapor, Appearance	Rating	EN 438-2 -14	4 (min.)	5	
17	Light Fastness (Xenon-Arc Light)	Contrast	EN 438-2 - 27	4 to 5	4	
	Resistance to Micro scratches				5	
18		Class	EN 438-2 -30	No requirement	5	
4.6	(Surface visual assessment)	011	EN JOHOO	42 -	, , ,	
19	Surface Gloss	GU	EN 13722	<10 ± 3	Less than 4	
20	*Chemical Spot Test	Level	SEFA 8-PL-2010	Not more than 4 Level-3	Less than 4 conditions	
			Method 81	conditions		
		PH\	SICAL PROPERTIES			
21	Resistance to Impact by Large Diameter Ball		EN 438-2 - 21			
	a) Drop Height	mm		800 (min.)	1000	
	b) Diameter of Indentation	mm		10 (max)	7	
22	Resistance to Impact by Small Diameter Ball	Rating	EN 438-2 - 20	20 (min)	25	
		•			5	
23	Resistance to Immersion in Boiling Water	Rating	EN 438-2 - 12	4 (min)	5	
24	Dimensional stability at Elevated temperatures		EN 438-2 - 17			
	Longitudinal	%		0.55 (max.)	Complies	
	Transverse	%		1.05 (max.)	Complies	
25	Resistance to cracking	Rating	EN 438-2 - 23	4 (min)	5	
26	Density	g/cm³	EN ISO 1183 -1 :2004	1.35 (min.)	1.38	
27	Electrostatic Dissipation Property	Ω	EN 61340-4-1	No requirement	1 x 10 10 to 10 11	
		FI	RE PERFORMANCE	·		
28	Reaction to Fire (Tested according to	Euro class	EN 13501-1: 2007+	See foot note on Fire Preformance*	*	
	EN 13823:2010 & EN 11925-2 :2010)*	_0.0 51000	A1:2009	TIT TO THE TOTAL TO THE TOTAL		
		HEALTH AND I	ENVIRONMENTAL PROPERT	TIES		
20	Formaldohydo Pologgo				0.00	
29	Formaldehyde Release	ppm	EN 16516:2017	0.1	0.02	
		Certificate	UL-2818:2013	Greenguard Gold	Complies	
		Rating	EN 13986	No requirement	Less than E1	
30	Emissions with respect to Indoor Air Quality:	mg/M³	UL-2818:2013	0.22	Conforms	
	TVOC	ppb <sup>3</sup>	Greenguard Gold	7.3	Conforms	
	Formaldehyde (CAS 50-00-0 9)	ppm	standards	0.043	Conforms	
	Total Aldehydes	$\mu$ g/M³		6.5	Conforms	
	4-Phenylcyclohexene (CAS 4994-16-5)	μg/M³		20	Conforms	
	Particle Matter less than 10 $\mu$ m	μg/M³		160	Conforms	
	1-Methyl-2-pyrrolidinone (CAS 872-50-4)	μg/ivi 		1/2 CREL or 1/100th TLV	Conforms	
04			NOT/ANOLOG			
31	Product sanitization/hygiene		NSF/ANSI 35	NEMA Assessment	Conforms	
32	Transfer of constituents to Food during contact	Migration of	EN 1186-1:2002	3% Acetic Acid	1.0	
		10 mg/dm <sup>2</sup>	EN 1186-3:2002	95% Ethanol	1.1	
0.0	E. C. C.		EN 1186-14:2002	Iso-Octane	Less than 0.1	
33	Food safe		EN 13130-1	Yes	Yes	
0.4	Antibacterial Efficacy	Doduction		2.0 (min)		
34	Microbial activity & Microbial Kill	Reduction	JIS Z 2801: 2010	99.5% (min)	Complies Complies	
35	AntiViral Efficacy	Reduction	ISO 21702:2019	95.0 (min)	Complies 99.9	
00		Growth after 28 days	ASTM G-21-2015	Rating 1	Rating 0 (No Growth)	
36	Antifungal Efficacy (					

Class (Rating) - 1= Surface damage, 2= Severe appearance alteration, 3= Moderate change, 4= Slight change visible at certain angle, 5= No change

Virus tested - MS2 Bacteriophage

Bacteria tested - Pseudomonas. 2. Entrococcus Faecalis, 3. Candida Albicans 4. Pseudonomas Aeruginosa 5. Escherichia Coli 6. Klebsiella 7. MRSA (Methicilllin Resistant Stapphylococcus Aureus) 8. Salmonella Enterica

Fungus tested: 1.Aspergillus niger 2. Penicillum funicollosum 3. Gliocladium virens 4. Chaetobium globosum 5. Aurobasidium pullulans
Surface Finish: Ultra Matt. ● Robust, resistant to dirt, Anti finger Marks, caressing silky feel. ● Size available: 1300 x 3050 mm i.e. 4.25′x 10′ ● Thickness offering: 0.7 mm – 24 mm.

Note: Whereas Greenlam products are manufactured thoroughly to standards, the nature of the application procedure is beyond our control. The values given above are to the best of knowledge but without liability/ warranty, expressed or implied. I Greenlam AFX Compact Laminates can be made available in Fire Retardant variants also.

Greenlam provides FSC® Certified product (Certificate No. SCS-COC-003328), on request.

\*SEFA chemical spot test does not comply with Sulphuric Acid, Sulphuric Acid+ Nitric Acid, Sodium Hydroxide and Hydrogen Peroxide 30%.

















#### **GLOBAL HEADQUARTERS**

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# PHENOLIC TOILET ACCESSORIES











3-roll stainless steel hinge



Powder coated aluminium lock case with nylon pull-knob ...



... and nylon red-white indicator



Nylon hook and buffer



Support leg 13 RP with height-adjustable nylon rosette



Support leg 13 RF with height-adjustable nylon rosette



Corner connection 13 RP



Corner connection 13 RF

## LOTS OF OPTIONAL EXTRAS

## Nylon, aluminium & stainless steel

We offer a wide range of accessories: whether items of nylon which are optimally matched to our colour range, or sleek aluminium or high-quality stainless steel. All items convince by quality, functionality and high-quality. This makes them a permanent part of our product range.

#### NYLON



Roll holder



Spare roll holder



WC-symbols



Hook with buffer



Toilet brush set

### **ALUMINIUM**



Single-handed lock RS4



Inside



Roll holder



Spare roll holder



Toilet brush set

#### STAINLESS STEEL OR ALUMINIUM



Single-handed lock



Hook



Buffer



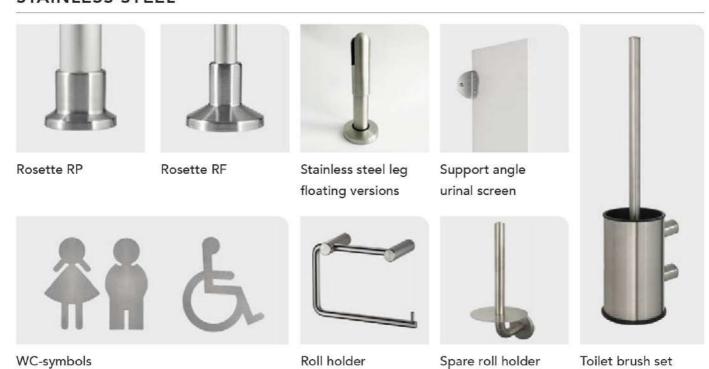
Hook with buffer

RS2 Aluminium bolt lock RS3 Stainless steel bolt lock





## STAINLESS STEEL





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