



KEBS STANDARD
2971:2023: Standard Specifications
for Design of Cold-Formed Buildings



TOOL KIT



What is SAFBUILD®?

SAFBUILD®, the world-class pre-engineered steel buildings solution are prefabricated cold-formed light gauge steel structures that are easy to assemble on site. SAFBUILD® structures are delivered as a complete solution, effectively reducing the overall cost of construction and project duration, from procurement to construction.

We use high-tensile galvanized steel on our pre-engineered structures to ensure durability and maximum strength.

Why SAFBUILD®?

- Stress free construction
- Eco-friendly
- Much more durable due to galvanisation
- Speed of execution as materials are factory cut for fast erection on site
- The entire process is handled by experts

Ready-made

- Offers standardised sizes
- Faster delivery of 30-days from order to supply
- Optimised design at competitive pricing
- Features standard sizes that allow easy adoption to most land sizes

Bespoke

- Customer-defined sizes that are made to order
- It takes approximately six to eight weeks from order to supply
- Allows optimisation of design for only a slight cost increase
- Customised to fit use and/or the land available

Available Colours

Maroon

Sky Blue

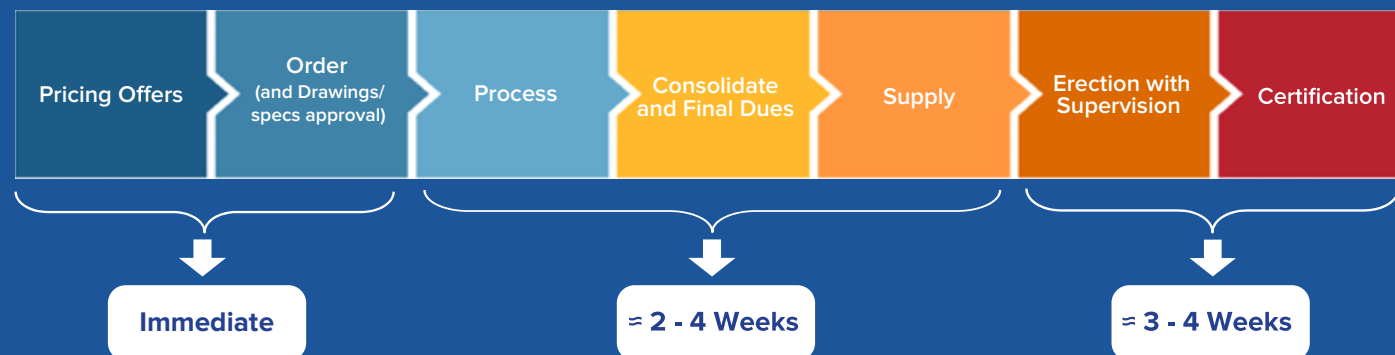
Dark Green

Lilac Haze

Charcoal Grey

Other shades may be offered based on availability but this may impact delivery timelines

30 Days Explained



Classrooms



Building Size (M)

Single Classroom	8W x 9L x 3H (85.5 M ²)
Multiple (4 Unit) Block	8W x 36L x 3H (342 M ²)
Sitting Capacity	Private - 40 Students MOE - 55 Students

Ministry Of Education Recommended Size Classrooms – Single Unit & 4-classroom Block

No	Building Dimensions – Includes a 1.5M wide verandah				SAFBUILD® Cladding		Structure weight (MT)
	Width (m)	Length (m)	Height (m)	Area (M ²)	Nature	Type	
1	8 (9.5)	9	3	85.5	Roof & Wall (1.8m steel, 1.2m masonry)	Tekdek IT5 0.40TCT	1.90
2	8 (9.5)	36	3	342	Roof & Wall (1.8m steel, 1.2m masonry)	Tekdek IT5 0.40TCT	6.47

Private Sector-preferred Size Classrooms – Single Unit & 4-classroom Block

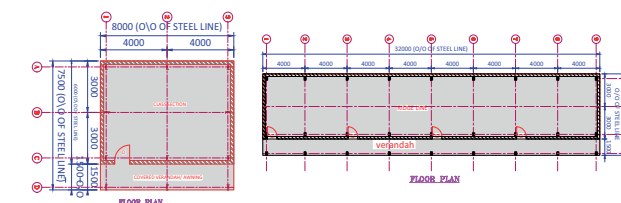
No	Building Dimensions – Includes a 1.5M wide verandah				SAFBUILD® Cladding		Structure weight (MT)
	Width (m)	Length (m)	Height (m)	Area (M ²)	Nature	Type	
1	6 (7.5)	8	3	60	Roof & Wall (1.8m steel, 1.2m masonry)	Tekdek IT5 0.40TCT	1.32
2	6 (7.5)	32	3	240	Roof & Wall (1.8m steel, 1.2m masonry)	Tekdek IT5 0.40TCT	4.54

Building Offer Inclusions

1. Complete steel structure
2. Roofing & Cladding Sheets
3. Complete Rain Water Goods
4. Opening-support Frames & accessories
5. Insulation under roof
6. Installation labour
7. Transportation* to project sites
8. Area includes 1.5M verandah

Building Offer Exclusions

1. Civil, Mechanical, Electrical & other builder works
2. Optional Accessories - louvres, doors, windows etc
3. Professional services/ statutory approvals



Warehouse



Building Size (M)

Warehouse 1 (Small)	10W x 20L x 4.5H (200 M ²)
Warehouse 2 (Small)	15W x 30L x 6H (450 M ²)*

*Sits on a 50 x 100 plot

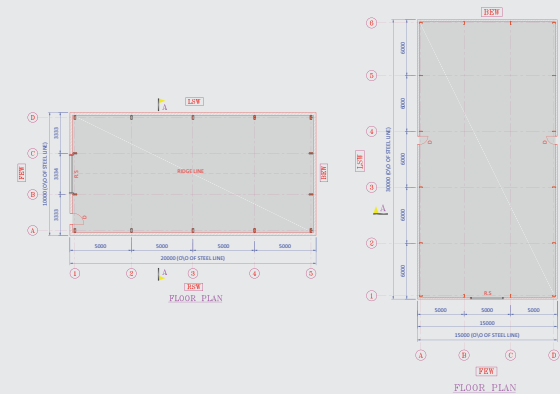
No	Building Dimensions				SAFBUILD® Cladding		Structure weight (MT)
	Width (m)	Length (m)	Height (m)	Area (M ²)	Nature	Type	
1	10	20	4.5	200	Roof & Wall (2.0m steel, 2.5m masonry)	Tekdek IT5 0.40TCT	4.38
2	15	30	6	450	Roof & Wall (3.0m steel, 3.0m masonry)	Tekdek IT5 0.40TCT	9.66

Warehouse Offer Inclusions

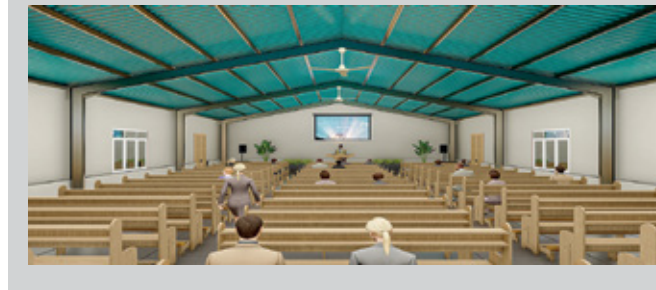
1. Complete steel structure
2. Roofing & Cladding Sheets
3. Complete Rain Water Goods
4. Opening-support Frames & accessories
5. Polycarbonate Sheets (1 per bay)
6. Installation labour
7. Transportation* to project sites

Warehouse Offer Exclusions

1. Civil, Mechanical, Electrical & other builder works
2. Optional Accessories- louvres, doors, windows etc
3. Professional services/ statutory approvals



Church



Building Size (M)

Church 1 (Medium Unit)	12W x 24L x 4H (288 M ²)
Church 2 (Medium Unit)	15W x 30L x 5H (450 M ²)
Sitting Capacity	Church 1 - 200 pax Church 2 - 300 pax

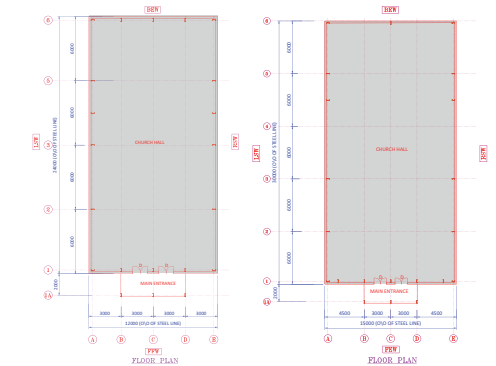
No	Building Dimensions				SAFBUILD® Cladding		Structure weight (MT)
	Width (m)	Length (m)	Height (m)	Area (M ²)	Nature	Type	
1	12	24	4	288	Roof & Wall (2.5m steel, 1.5m masonry)	Tekdek IT5 0.40TCT	6.35
2	15	30	5	450	Roof & Wall (3.5m steel, 1.5m masonry)	Tekdek IT5 0.40TCT	10.56

Church Offer Inclusions

1. Complete steel structure
2. Roofing & Cladding Sheets
3. Complete Rain Water Goods
4. Opening-support Frames & accessories
5. Insulation under roof
6. Installation labour
7. Transportation* to project sites

Church Offer Exclusions

1. Civil, Mechanical, Electrical & other builder works
2. Optional Accessories - Louvres, doors, windows etc
3. Professional services/ statutory approvals



Commercial Kiosk



Building Size (M)

Commercial Kiosk(4units)	3W X 12L X 3H (36M ²)*
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*25% Larger than a 40ft container

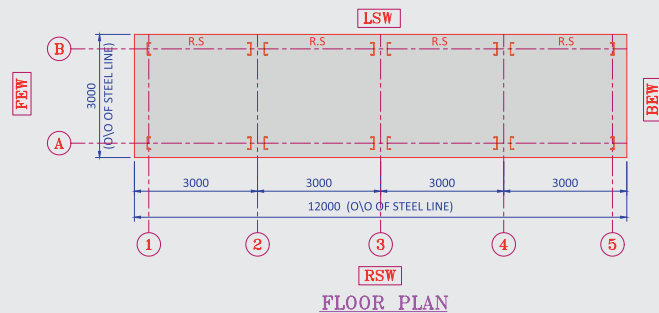
Building Dimensions					SAFBUILD® Cladding		Structure weight (MT)
No	Width (m)	Length (m)	Height (m)	Area (M ²)	Nature	Type	
1	3	12	3	36	Roof & Wall (Full steel wall cladding)	Tekdek IT5 0.40TCT	1.80

Commercial kiosk Offer Inclusions

1. Complete steel structure
2. Roofing & Cladding Sheets
3. Complete Rain Water Goods
4. Opening-support Frames & accessories
5. Insulation under roof
6. Installation labour
7. Transportation* to project sites

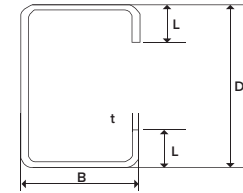
Commercial kiosk Offer Exclusions

1. Civil, Mechanical, Electrical & other builder works
2. Optional Accessories - louvres, doors, windows etc
3. Professional services/ statutory approval

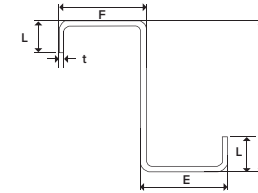


Purlin Dimensions & Properties

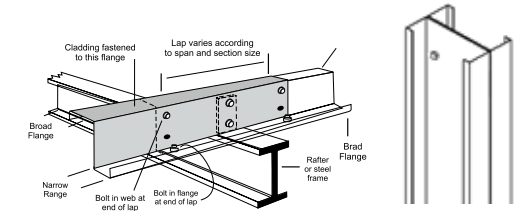
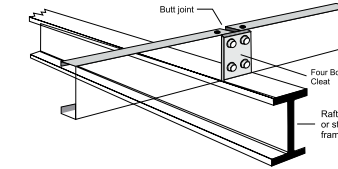
C Purlin



Z Purlin



Typical Connection



C & Z Purlin Size & Mass Table

Section	Thickness mm (t)	Height mm (D)	Z PURLINS			C PURLINS		Mass kg/m
			E	F	L	B	L	
10012*	1.20	102	53	49	13	51	12.5	2.07
15012*	1.20	152	65	61	15.5	64	14.5	2.82
15016	1.60	152	65	61	16.5	64	15.5	3.74
15024	2.40	152	66	60	19.5	64	18.5	5.61
20016	1.60	203	79	74	18	76	15.5	4.92
20019	1.90	203	79	74	18.5	76	19	5.64
20024	2.40	203	79	73	21.5	76	21	7.14
25019	1.90	254	79	74	18	76	18.5	6.38
25024	2.40	254	79	73	21	76	20.5	8.08
30024	2.40	300	100	93	27	96	27.5	9.95

Tolerances	Benefits	Material specifications
<ul style="list-style-type: none"> • Overall length = ±5mm • Flange width = ±1mm • Web depth = ±1mm • Hole centres = ±1.5mm 	<ul style="list-style-type: none"> • Greater spanning capacity • Easier to handle • Lower maintenance cost • Quick & Easy installation • Compatibility with other steel products 	<ul style="list-style-type: none"> • G450, Z275 - thickness greater than or equal to 1.5mm • G500, Z275 - thickness greater than 1.0mm & less than 1.5mm • G550, Z275 - thickness less than or equal to 1.0mm

* MOQ requirement is 5MT and the lead time is 3-4 weeks

*Transportation - FREE within Nairobi and at discounted rates outside Nairobi

TALK TO US



Talk to us today!

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