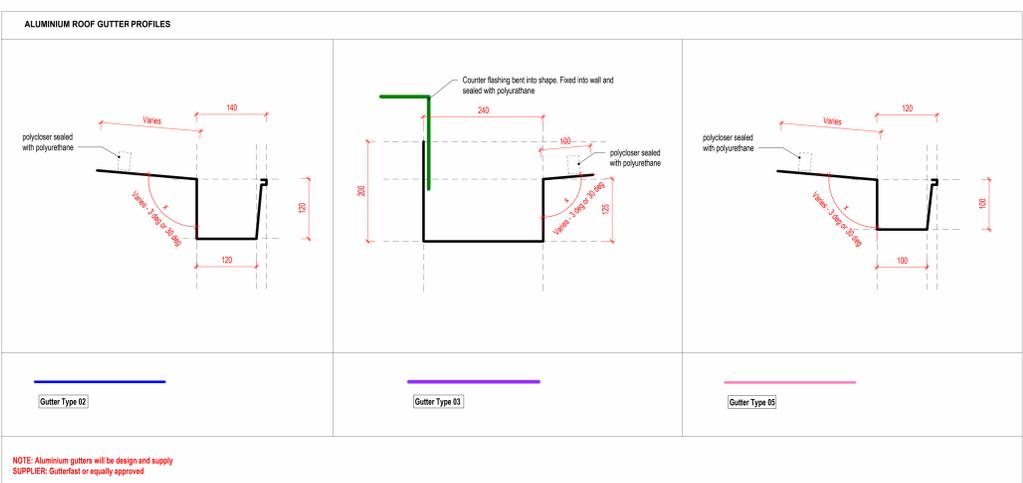
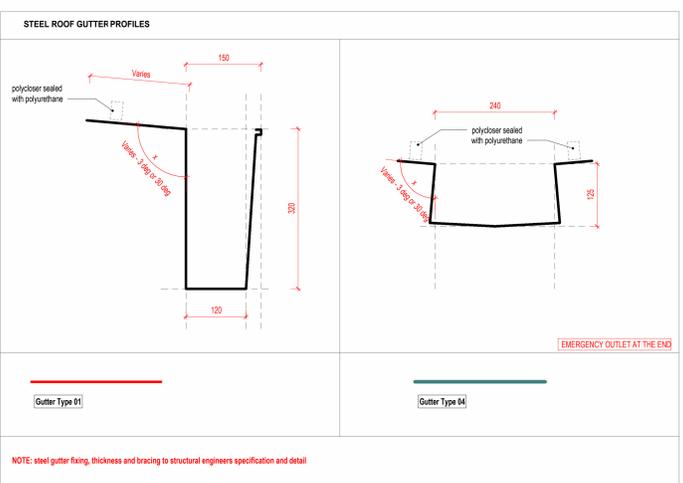


1 A. Main Building - GA Plan - Roof Plan
1 : 200

RF-01	ROOF INSTALLATION AND MAINTENANCE GUIDE	SAFLOK 700 CLIPPING SYSTEM	FASTENERS	POLYGLIDER CLIP	CURVING	SEALED JOINTS	INSTALLATION	CLEANING OF ROOF, ETC.
	<p>Safirok Saflok 700 - 0.53mm thick ColorPlus, color to be "Rainforest" C-13 finish with standard backing coat. G555 interlocking roof sheeting with AZ150 system to both sides fixed to Laminboard purlins on 150mm battens. Safirok Saflok 700 clips are fixed to the purlins in accordance with the manufacturer's specifications using SAFLOK 700 clips. The clips are secured with roof fasteners, all in accordance with manufacturer's recommendations.</p> <p>The roof sheeting shall be double-interlocking concealed SAFLOK 700 profile with thermal in concrete lengths and set to length by a proprietary cut-off process from SAFLOK 700 sheets.</p> <p>Airtightness verification shall be performed by the manufacturer. Safirok Roofing. The profile shall be 20mm wide with a 10mm gap between sheets. The profile shall be covered with not exceeding 20mm and a cover with not exceeding 20mm. The minimum sheet depth will be 41.5mm. The sheeting fix are incorporated in each pan.</p>	<p>The SAFLOK 700 clip incorporates a dual action locking joint in every 100mm, and an overlap to clip the next clip. Every clip is a headless secured, making it fully interlocking. It is essential that the fastener must penetrate the underside of the clip.</p>	<p>Where insulation is to be installed, you may need to increase the length of the fasteners given the sloping on the wind and thickness of the insulation. When the fastener is properly tightened, this must be done at an angle every 100mm to ensure that the fastener must penetrate the underside of the clip.</p>	<p>For use with Safirok polycarbonate sheeting that is treated with water-repellent. Polycarbonate sheets must be positively fixed, consult the technical department for advice.</p>	<p>Natural springing occurs at 30m radius in the curve and 60m radius in the straight. It is important to reduce purlin spacing to 1200mm when springing a roof.</p>	<p>For sealed joints use fasteners made of stainless steel or aluminum. If necessary, use a sealant compatible with the fastener. Sealant should be applied to the joint before the fastener is inserted. Sealant should be applied to the joint before the fastener is inserted. Sealant should be applied to the joint before the fastener is inserted.</p>	<p>Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Sheet sheets should be used when necessary to protect the sheeting from damage. Sheet sheets should be used when necessary to protect the sheeting from damage. Sheet sheets should be used when necessary to protect the sheeting from damage.</p>	<p>All debris, mud, etc. arising from the fixing of the cladding shall be removed from the sheeting as the fixing progresses. In addition, use of insulation, surplus battens, sealants, mastic from prep work, off-cuts of sheeting, surplus fasteners, fast packaging, cutlery, bottles, cans, etc. shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters the gutters. It is particularly important to ensure that no such material enters the gutters.</p>
	<p>The roof sheeting shall be double-interlocking concealed SAFLOK 700 profile with thermal in concrete lengths and set to length by a proprietary cut-off process from SAFLOK 700 sheets.</p>	<p>Flashing specifications shall be to Safirok Roofing standards and fixed to the sheeting with F10 Bracket Flashing after clip as per where roof sheets are 200mm long. To ensure an airtight fixing, the F10 clip is positively fixed. Prior to flashings being fixed, all troughs at the eaves and in the gutters shall be fixed to the sheeting in order to prevent any penetration of wind driven water. The trough shall be fixed to the sheeting in order to prevent any penetration of wind driven water. The trough shall be fixed to the sheeting in order to prevent any penetration of wind driven water.</p>	<p>LMK-370™ CLAMP For installation of polycarbonate (PC) panels, HVAC/R piping equipment, pipes/conduits, sign/banners, window shutters and other roofing systems. The LMK-370™ Clamp must be installed with the correct fastener for use and general maintenance. The clamp must be installed with the correct fastener for use and general maintenance. The clamp must be installed with the correct fastener for use and general maintenance.</p>	<p>CRANKING SAFLOK 700 sheets may be cranked and bolted but not reverse bolted. Maximum value is 400mm. On-site cranking is available on request.</p>	<p>ROLLING STRAIGHT ONTO ROOF It is possible to roll form sheets onto a roof using a scaffold ramp. The installation is the building height and space needed to do it. A span length of 10m is maximum. On-site cranking is available on request.</p>	<p>HANDLING AND STORAGE The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and stored in accordance with the manufacturer's recommendations. To handle materials safely to avoid damage, roof cladding materials over rough surfaces, use a tarp to cover the materials and protect from wind. The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and stored in accordance with the manufacturer's recommendations.</p>	<p>PROTRUSION THROUGH SHEETED SURFACES Protrusions such as pipes, ducts and the like shall be adequately flashed when they pass through the sheeting surface. Where they have to be cut into the sheeting, the cut shall be made as close to the sheeting as possible. The cut shall be made as close to the sheeting as possible. The cut shall be made as close to the sheeting as possible.</p>	<p>SC-01 Sealed Outlet Drain - Discharged into base box without leak. Sealed outlet drain with 100mm dia. uPVC pipe fixed to wall, with above and below to surface discharge.</p>



GENERAL EXTERNAL INFORMATION AND MATERIALS

Rev	Date	Issued by	Description
A	2024-09-03		For Information
B	2024-11-04		For Tender
C	2024-11-25		For Tender
D	2024-12-13		For Tender

ROOF GUTTER LEGEND

Gutter Type 01	Steel gutter to typical detail. Powdercoated to match roof sheeting with matching 110mm dia. Downpipes where indicated. End of sheeting cranked to drip. Install Polycloser and sealed with Polyurethane.
Gutter Type 02	Custom Aluminium bar gutter to typical detail. Powdercoated to match roof sheeting with matching 110mm dia. Downpipes where indicated. End of sheeting cranked to drip. Install Polycloser and sealed with Polyurethane.
Gutter Type 03	Custom Aluminium Valley bar gutter to typical detail. End of sheeting cranked to drip. Install Polycloser and sealed with Polyurethane.
Gutter Type 04	Purpose made Steel bar gutter. End of sheeting cranked to drip. Install Polycloser and sealed with Polyurethane.
Gutter Type 05	Custom Aluminium bar gutter to typical detail. Powdercoated to match roof sheeting with matching 110mm dia. Downpipes where indicated. End of sheeting cranked to drip. Install Polycloser and sealed with Polyurethane.

ROOF FLASHING LEGEND

FL-01	Description: Standard Ridge Flashing to match Roof sheeting and purlin with polycloser and polyurethane sealant.
FL-02	Description: Standard Soffit Flashing to match roof sheeting, together with matching metal counterflashing.
FL-03	Description: Standard Headwall Flashing to match roof sheeting, together with matching standard metal counterflashing. Along with Polycloser and sealed with Polyurethane.
FL-04	Description: Standard Barge Flashing to match roof sheeting.
FL-05	Description: Custom Headwall Flashing gable bent into shape fixed to steel purlins to match roof sheeting. Along with Polycloser and sealed with Polyurethane.
FL-06	Description: Standard Back Flashing to match roof sheeting.

SAFLOK 700 FLASHING
Flashings specifications shall be to Safirok Roofing standards and fixed to the sheeting with F10 Bracket Flashing after clip at apex where roof sheets are 200mm long. To ensure an airtight fixing, the F10 clip is positively fixed. Prior to flashings being fixed, all troughs at the eaves shall be fixed to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be fixed to the sheeting in order to prevent any penetration of wind driven water. The trough shall be fixed to the sheeting in order to prevent any penetration of wind driven water.

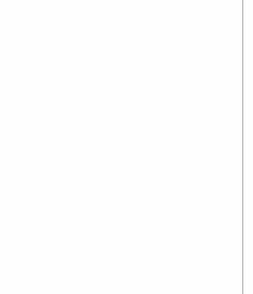
DOWNPIPES LEGEND

DP-01	Roof Discharge Downpipe 110mm resin discharge to match roof sheeting, installed against brick wall. Slope to discharge water into concrete roof surface.
DP-02	Roof to concrete roof Discharge Downpipe 110mm resin discharge to match roof sheeting, installed against brick wall. Slope to discharge water into concrete roof surface.
DP-03	Overstore on vertical sheeting Discharge 110mm resin discharge to match roof sheeting, installed against roof sheeting to provide frame steel structure. Slope to discharge water onto surface.
FS-01	Subsoil Outlet at Flat Roof Subsoil Outlet - Discharged into base box without leak. Sealed outlet drain with 100mm dia. uPVC pipe fixed to wall, with above and below to surface discharge.
SC-01	Sealed Outlet Drain - Discharged into base box without leak. Sealed outlet drain with 100mm dia. uPVC pipe fixed to wall, with above and below to surface discharge.

NOTES
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REVISIONS

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A	2024-09-03		For Information
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D	2024-12-13		For Tender



Signatures:

Engineer: _____

Architect: _____

FOR TENDER

CONSULTANTS

Project Manager: _____

Quantity Surveyor: _____

Structural Engineer	_____
Civil Engineer	_____
Mechanical Engineer	_____
Electrical Engineer	_____
Water & Fire Services Engineer	_____
Interior Designer	_____
Landscape Architect	_____
Lighting Specialist	_____
Client	_____

Project: **SANSA - Matjiesfontein**

Client: **SANSA**
SOUTH AFRICAN NATIONAL SPACE AGENCY

Drawing: **GA Plan - A. Main Building - Roof Plan**

Revision No: **D**

Project No: **SMFN-SVA-AR-DR-11_1002**

Scale: **As indicated A0**

Date: **2024-12-13**

Author: **C15415.00**

Drawn: _____

Checked: _____

Approved: _____

Revision No: _____

Author: _____

