



NIKKATA

TO YOUR WIDE CHOICE



METAL ROOFING OF WALLING PRODUCT SK CLIPLOCK 720



DESIGN
FLEXIBILITY



DURABILITY
SECURITY



MADE IN
MALAYSIA



ENVIRONMENT
FRIENDLY



WARRANTY

SECTION PROFILE

SK CL 720 CLIP "N" LOCKING SYSTEM INDUSTRIAL PROFILE METAL ROOFING

SK Clip 720 is designed to have an interlock action rib for positive concealed clip fixing that is roll formed precisely from genuine high tensile G550 Steel.

Designed to perform at a minimum recommended roof pitch of 2° SK-Clip 720 provides a light weight but extremely strong water-proof roofing system with its wide 198mm fluted pans and high rib 36mm design.

It disperse rainwater quickly and efficiently to the outer perimeters of the roof, thus making it an excellent choice for areas with sever rainfall intensity in Asia.



SK CL 720

CLIP "N" LOCKING SYSTEM

- Roll-forming long length high tensile metal decking.
- Combines with smart fluted spans and a lock-action rib design.
- Manufactured from high tensile steel substrate protected with corrosion inhibitive treatment.
- Roofing and walling profiles with material warranty up to 25 years. (Term and condition apply.)
- Wider effective cover width of 720mm and rib height of 36mm.
- For minimum roof pitch of 1°.
- Concealed fixing method with clip and locking system.
- Strongly recommend for applications from low pitched roofs to vertical or horizontal ribbed walling for warehouses, shop offices, exhibition halls, and etc.

Thickness Available

Coating Mass	Base Metal Thickness (BMT)	Total Coated Thickness (TCT)	Weight (Kg/m ²)	Steel Grade (Colour)	Min Yield Strength (MPa)
AZ 090	0.35mm	0.40mm	3.60	JISG3312/ AS 1397	G550 MPa
AZ 090	0.40mm	*0.47mm	4.10	JISG3312/ AS 1397	G550 MPa
AZ 100	0.42mm	0.47mm	4.38	JISG3312/ AS 1397	G550 MPa
AZ 100	0.48mm	0.53mm	4.98	JISG3312/ AS 1397	G550 MPa
AZ 150	0.48mm	0.53mm	5.08	JISG3312/ AS 1397	G550 MPa

Recommended Maximum Spacing of Support (mm)

Coating Mass	Base Metal Thickness (BMT) (mm)	Total Coated Thickness (mm)	Roofs		Wall		Overhang (mm)
			Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
AZ 090	0.40	*0.47	2000	1500	3300	2600	150
AZ 100	0.42	0.47	2100	1600	3500	2800	200
AZ 100	0.48	0.53	2500	2000	3600	3000	300

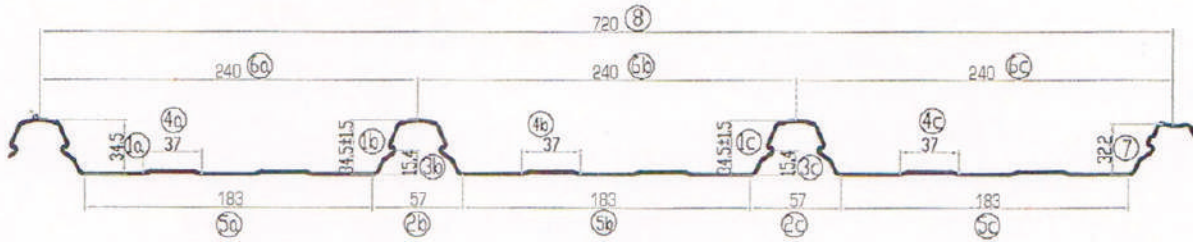
Recommended Maximum Roof Length (m)

Rainfall Intensity (mm/hour)	Shape in Degree				
	2°	3°	5°	7.5°	10°
250	170	194	243	303	364
300	142	162	204	256	307
400	105	121	153	192	232
500	86	99	123	154	185

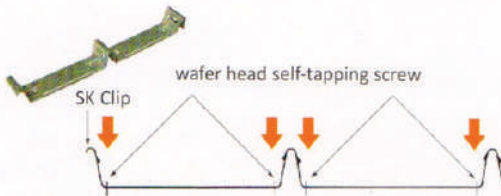
Distributed Load Capacity - Continuous Span Condition

Total coated Thickness(mm)	SPAN	MM	900	1050	1200	1350	1500	1650	1800	1950	2100
0.45	Serviceability	kPa	2.564	2.127	1.903	1.417	1.104	0.859	0.656	0.480	0.324
	Strength	kPa	4.296	3.634	3.344	2.737	2.136	1.743	1.453	1.163	0.869
0.47	Serviceability	kPa	2.901	2.376	2.034	1.506	1.141	0.873	0.659	0.500	0.361
	Strength	kPa	4.699	3.951	3.521	2.866	2.259	1.834	1.524	1.254	0.983
0.53	Serviceability	kPa	3.913	3.121	2.429	1.771	1.253	0.916	0.667	0.560	0.473
	Strength	kPa	5.907	4.903	4.053	3.251	2.627	2.109	1.739	1.529	1.326

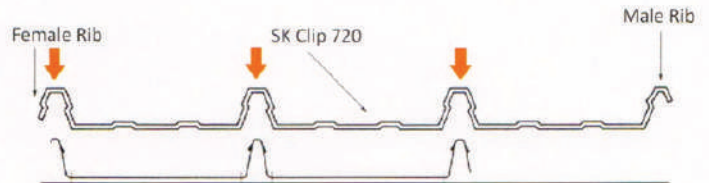
SK INSTALLATION PROCEDURE



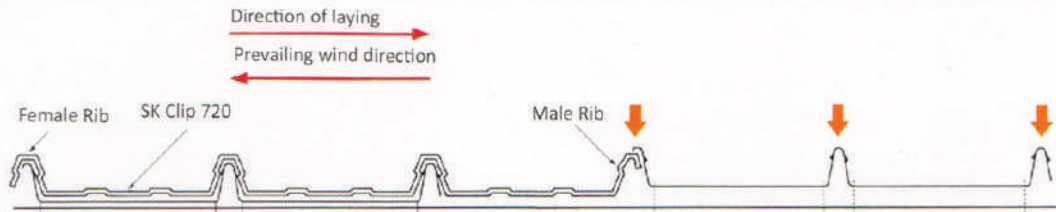
Step 1: Fasten SK Clip with wafer head self-tapping screw



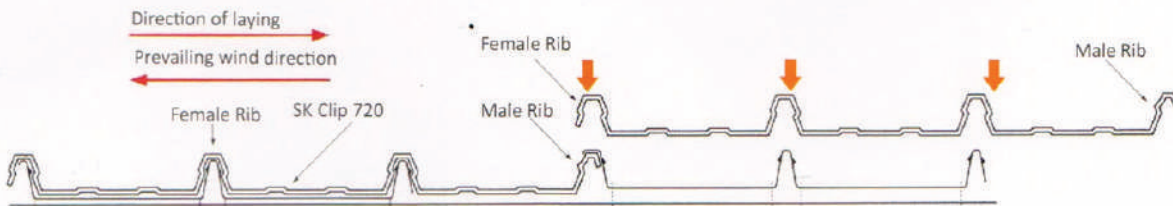
Step 2: Install first SK Clip 720 roofing sheet at its ribs onto the clip



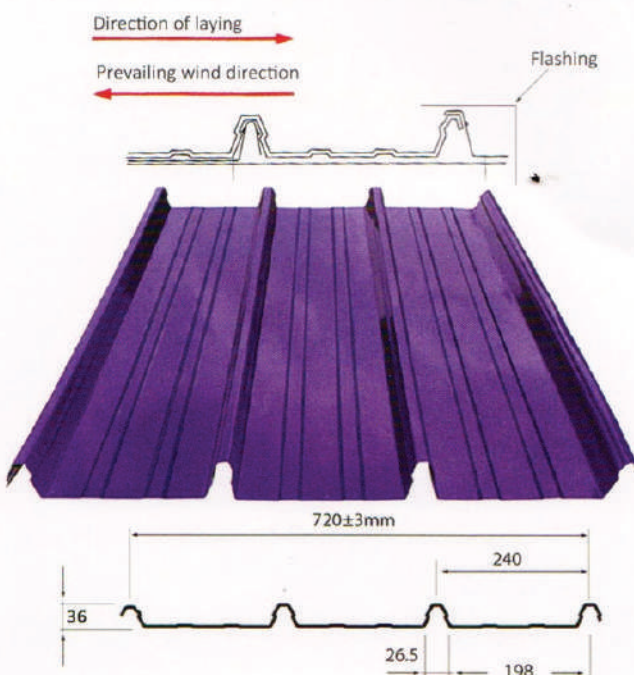
Step 3: Place the next SK Clip over the male rib of the first SK Clip 720 roofing sheet. Fasten the clip with wafer head self tapping screw.



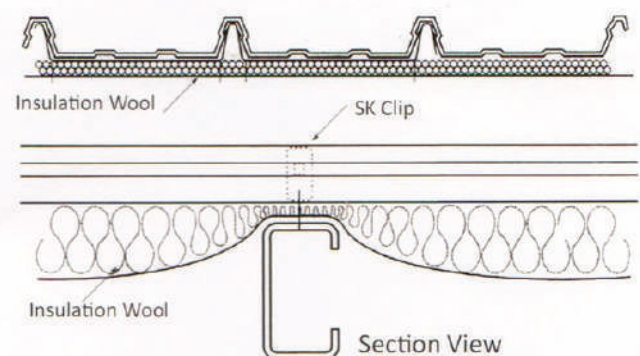
Step 4: Place the succeeding SK Clip 720 roofing sheet with female rib cover the clip and male rib of the previous roofing sheet.



Step 5: Endings - Secure down the end SK Clip 720 roofing sheet with cut-off clip.



SK Clip 720 - Fastening Method on Insulation Wool



Clip-on convenience and safety

- Recommended for low pitched roofs to vertical or horizontal ribbed walling for warehouses, shop offices and exhibition halls.
- Wider effective cover width of 720mm and rib height of 36mm.
- Concealed fixing method with clip and locking system.
- For minimum roof pitch of 2°.
- Provides lightweight yet extremely strong waterproof roofing system.

Benefits

- Minimum risk of leakage
- High tensile metal decking
- Durable and long lasting
- Long length

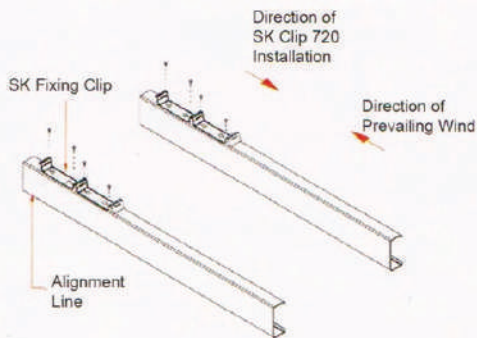
Dimension: Rib Height: 36mm
Tolerance: Thickness For Material: $\pm 0.03\text{mm}$

Effective Cover: 720mm
Effective Width: $\pm 3\text{mm}$

Minimum Roof Pitch: 2° Sheet without end lap
Finishing Length: $\pm 5\text{mm}$

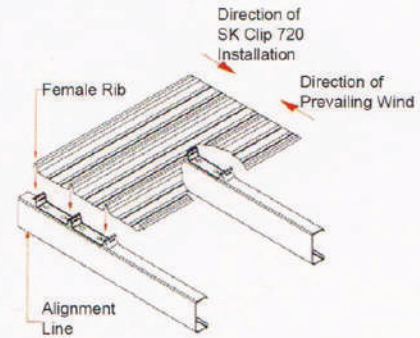
GENERAL INSTALLATION GUIDE

1. SK Clip Fixing



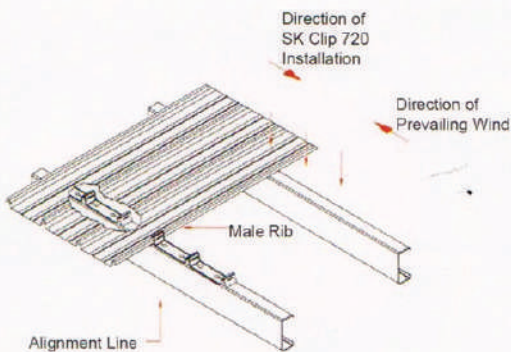
Ensure that the installation direction of the SK Clip 720 roof sheets opposes that of prevailing winds. Align the first row of fixing clips longitudinally using a wire as an alignment line. Fasten the SK fixing clips onto the purlins with four Water Head DX 520 WO self-drilling self-tapping screws.

2. Laying of 1st SK Clip 720 Metal Roofing Sheet



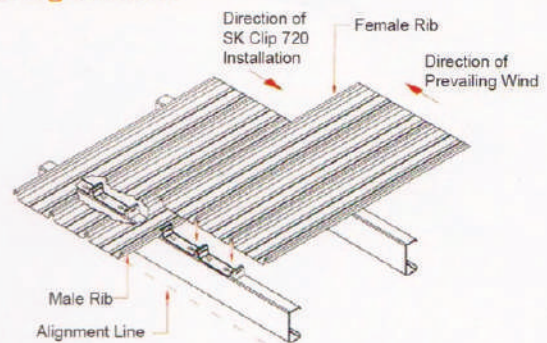
Position the first sheet of SK Clip 720 over the fixing clips, ensuring that the overlapping female rib of the roof sheet faces the edge of the roof where installation is to commence. The sheet is then locked into position by applying foot pressure on the two centre ribs and female rib of the sheet.

3. Second SK Clip Fixing



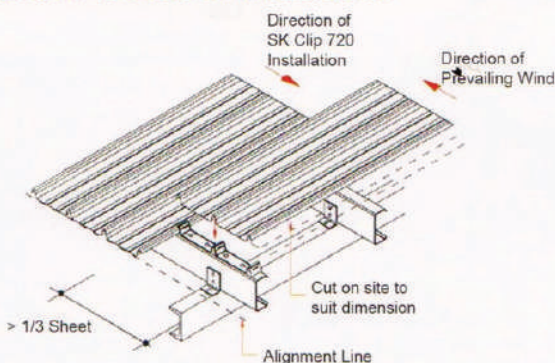
The next row of SK fixing clips are then fastened on the purlins with the male portion of the clips holding down the male rib of the roof sheet securely.

4. Laying of Subsequent SK Clip 720 Metal Roofing Sheets



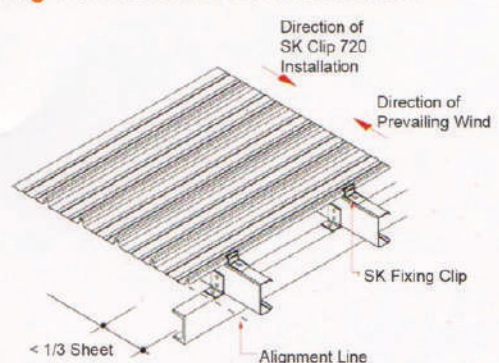
The next roof sheet is then placed over the SK fixing clips with the female rib of the roof sheet covering the male rib of the previous sheet. An alignment wire is used to ensure that the roof sheets are aligned laterally, parallel to the eave purlin.

5. Continue Process of Installation



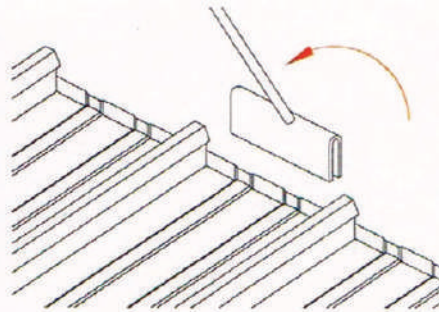
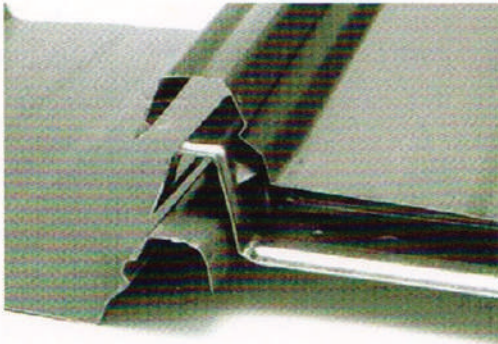
Repeat Step 3 and Step 4 until the roof is fully covered. Should the space between the last sheet and the edge of the roof be more than one third ($\frac{1}{3}$) the width of a sheet, then the final sheet shall be cut along the pan longitudinally, positioned as close as possible to the edge and installed as a full sheet. Finish roof installation with necessary flashing and capping.

6. Ending Pieces Recommendation

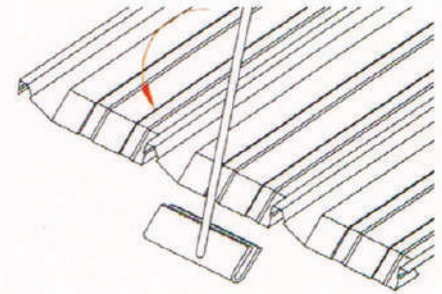


Should the space between the last sheet and the edge of the roof be less than one third ($\frac{1}{3}$) the width of the sheet, then the last sheet would be the final sheet and secured down with a cut-off ($\frac{1}{3}$) fixing clip. The remaining space is later flashed over watertightness. Finish roof installation with necessary flashing and capping.

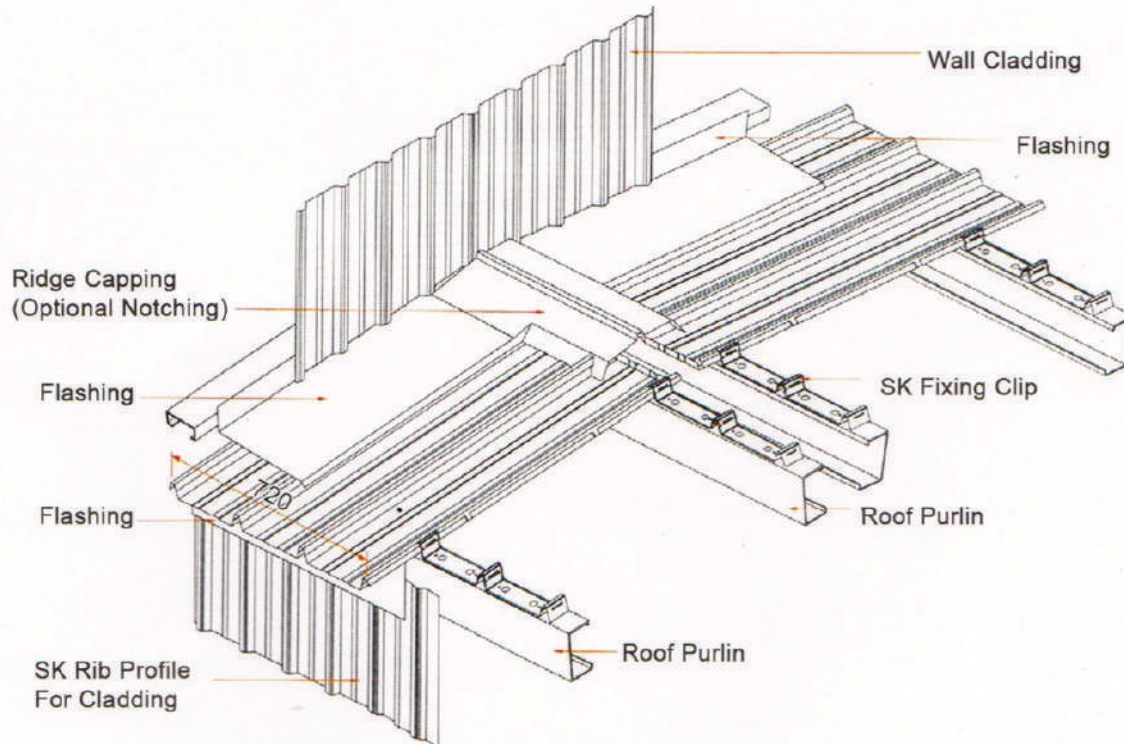
SK CLIPLOCK 720



STOP ENDING OF SK CLIP 720



LIPPING OF SK CLIP 720



ROOF PITCH

Specially designed to its unique high rib features, the SK Clip 720 profile can be installed on a roof pitch as low as 1°. However, it is recommended that a roof pitch of 2° be considered during designing to avoid silt accumulation due to reduced water velocity and possible ponding as a result of uneven purlins.

END LAPS

Should end laps be inevitable, have a minimum of 230mm end lap for a 5° roof pitch and below, and a minimum 150mm end lap for a roof pitch exceeding 5°. Ensure watertightness by applying a good sealant to the end lap.

STOP ENDING & LIPPING

Stop ending sheet prevent water from entering the building through the flashing or capping. It is done using a turn-up tool, turning up the tray between crests at the end of the sheet (Fig 1). Lipping is a process whereby a turn-down tool is used to turn down the tray between crests at the end of the sheet (Fig 2). Both these operations can be carried out before or after installation of the sheets. In the case of the latter, ensure that sufficient clearance is available for the movement of the turn-up/turn-down tool. It is recommended to lip pans of all sheets that have a slope less than 5°.

IMPORTANT NOTE: CLIMATE CHANGE

SK Steel highly recommend pierce fixing using fastener size of 5.5mm(Dia) x 85mm(L) to screw in pass the crest at Clip & Locked lapping adjoined to fixing clip and into purlin flange. This pierce fixing to be applied to perimeter of roofing area, all screws which to be concealed later with capping & flashing. With this precautions to inhibits tropical cyclone up lifting roofing system caused by severe climate changes.

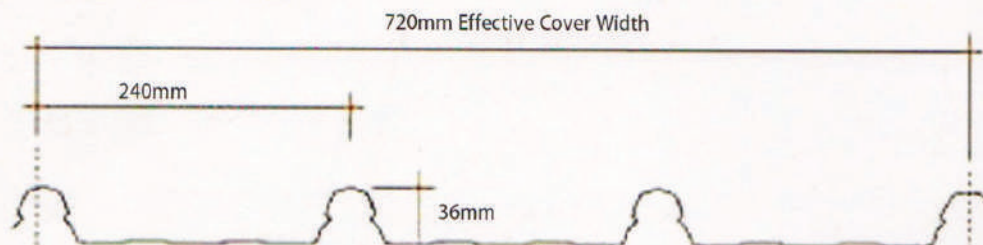
SK CLIP 720 PROFILE CHRONICLE SECTIONAL PROFILE

SK CLIP 720

NIKKATA
TO YOUR WIDE CHOICE



Sectional Profile



DIMENSIONS

Rib Height	: 36mm
Effective Width	: 720mm
Minimum Roof Pitch	: 1° (1 in 50)

TOLERANCE

Thickness for material	: $\pm 0.03\text{mm}$
Effective Width	: $\pm 3\text{mm}$
Finishing Length	: $\pm 5\text{mm}$
Profile Diameter	: $\pm 3\text{mm}$

High Performance Metal Roof System

SK Clip 720 Feature and Benefits

1. Material Warranty product against perforation by corrosion.
2. Long span cold roll forming with high tensile G550 steel.
3. Superior effective cover width of 720mm width with 36mm rib height.
4. Wider fluted spans design for rapid rainfall discharge.
5. Concealed fixing method with precision clip and locking on to SK fixing clips for wind velocity security.
6. Peace of mind for all weather performance at minimum roof pitch of 1 (1 in 50)

RECOMMENDED APPLICATION AREA

• Rood • Wall Cladding • Fascia • Fencing • Ceiling

SAMPLE OF SPECIFICATION - SK Clip 720 PROFILE

0.48mm Total Coated Thickness (TCT) SK Clip 720 high tensile (G550) metal roofing sheets shall be interlocking onto SK fixing clips in Material Selection:

- Pre-painted hot dipped zinc coated steel (PPGI)
- Pre-painted hot dipped zinc / aluminium alloy coated steel (AZ150/ AZ200)
- Zinz/ Aluminium alloy-coated steel (AZ150/ AZ200)

in corporate with necessary fitting and accessories. Details in accordance with manufacturer's instruction.

* Total Coated Thickness (TCT): 0.47mm / 0.53mm upon request

Manufactured in Malaysia By:



利嘉达金属瓦业有限公司 (561465-H)
NIKKATA METAL ROOFING INDUSTRIES SDN BHD
成功凉蓬钢瓦贸易 (JM0274635-V)
SENG KONG AWNING TRADING

No. 3, MYP 129/1, Batu 3 1/2, Simpang Jeram, Jalan Bakri, 84000 Muar, Johor.
Tel: 06-986 8886 (Hunting Line), 06-986 8669, 06-986 0886, 06-986 8769
Fax: 06-986 8669, 06-986 8188
Email: nikkata88@yahoo.com.my / sengkong88@yahoo.com.my
Website: www.sengkong.muar.my

For Further Inquiries, Please contact:
Untuk Maklumat Lanjut, Sila Hubungi:
更进一步的查询请联络:

