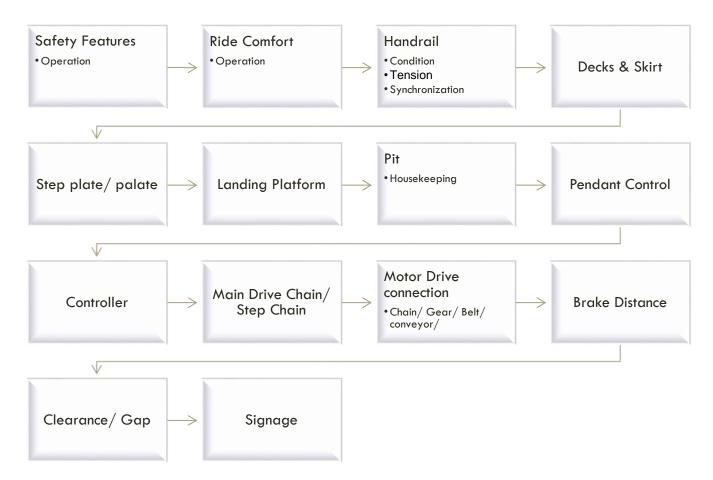
PENYELENGGARAN **& PEMERIKSAAN** ESCALATORS AND PASSENGER CONVEYORS

OSMAN BIN HJ ABDUL WAHID

GENERAL MAINTENANCE FOR ESCALATOR



PEMERIKSAAN BERKALA

No.	ltem	Frequency				
		Every Month	Every 2 Month	Every 3 Month	Every 6 Month	Every (Year
1.	ENTRANCE					
a.	Inspect travelling condition. Adjust, repair or replace as necessary.	Х				
b.	Inspect all Combs. Clean, adjust or replace as necessary.	Х				
С.	Inspect Emergency Stop Button. Replace as necessary.	Х				
d.	Inspect all switches. Replace as necessary.	Х				
e.	Inspect Handrail Guard. Adjust, repair or replace as necessary.	Х				
f.	Inspect Handrails Light. Clean, repair or replace as necessary.	Х				
g.	Inspect Direction Indicator. Replace as necessary.	Х				
2.	MACHINE ROOM					
a.	Inspect Machine Room condition. Clean as necessary.	Х				
b.	Inspect all beltings and tensioners. Clean, adjust or replace as necessary.	Х				
с.	Inspect Drive Motors. Clean, repair as necessary.	Х				
d.	Inspect Drive Machine. Clean, adjust as necessary.	Х				
e.	Inspect Terminal Gear (Upper & Lower). Clean, lubricate, adjust or replace as necessary.	Х				
f.	Inspect Driving Chain Switch. Replace as necessary.	Х				
g.	Inspect Motor Drive Chain. Clean, lubricate, adjust as necessary.	Х				
h.	Inspect Mg Brake. Clean, adjust or replace	Х				

JKJ166

JKJ 167:1/3 Rev.1

Serial no. of Esc. / Moving Walks :

	ESCALATOR / MOVIN	G WALKS	EN 115-1:2008 Clause	Description	Inspector's check figure	Remarks	
			BUILDING INTERFACES				
Date of Inspection	:	Escalator No.	A.2.1	Clear height above the steps/pallets	mm	Min. 2300mm	
Registration No.			A.2.2	Outer edge of handrail to walls or obstacles	mm	Min. 80mm	
Registration No.	: PMA		5.5.2.2	Outer decking to wall or railing	mm	Max. 120mm	
Design File No.	1		A.2.4	Vertical deflector	NP / No / Good		
Owner's Name			A.2.5	Unrestricted area	No / Good	Min. 2500mm	
Building Name			SAFETY SIGNS				
Address			Annex G	Mandatory action and prohibition signs	No / Good		
Address	·			BALUSTRADE			
Competen Firm			5.5.2.2	Anti-climbing device	NP / No / Good		
			5.5.2.2	Access restriction device	NP / No / Good		
Maker			5.5.2.2	Anti-slide device	NP / No / Good		
Serial No.	:	_		SKIRTING			
Year Manufactured	1	_	JKKP IS 127/8/1	Skirt deflector (Brushes / Rubber profiles)	NP / No / Good		
Power	: kw	Model	- Klt.23(21)				
Maximum Capacity	:	persons / hr.		STEPS			
Location of Escalator	:	floor to floor	JKKP IS 127/8/1	Demarcation yellow lines	NP / No / Good		
			- Klt.23(21)				
			5.3.5	Clearance between two consecutive steps or	allets mm	Max. 6.0mm	
Exemptions :			COMBS		Activate \		
			5.7.3.3.1	Mesh depth into grooves of the tread	mm	Min. 40mmSettin	
			5.7.3.3.2	Vertical clearance between comb to step	mm	Max. 4.0mm	
Remarks :							

1. ESCALATOR SAFETY SWITCHES

Ι.	Key-Operated Starting switch
2.	Emergency stop switch
3.	Broken drive chain switch
4.	Broken Step chain switch
5.	Comb plate switch

- 6. Handrail guard switch
- 7. Skirt Switch
- 8. Speed monitoring
- 9. Step switch
- 10. Overspeed-govenor

Safety Features

Ride Comfort Handrail Decks & Skirt Step plate/ palate Comb plate Landing Platform Pit Pendant Control Controller Step Chain Motor Drive connection Brake Distance Clearance/ Gap Signage https://www.youtube.com/watch?v=QUFsZsuNAOI

Escalator Safety Device

RIDE COMFORT

Smooth

Sound

Synchronization

Safety Features **Ride Comfort** Handrail Decks & Skirt Step plate/ pallate Landing Platform Comb plate Pit **Pendant Control** Controller Step Chain Motor Drive connection **Brake Distance** Clearance/ Gap Signage

HANDRAILS

Check for free running and condition. Check tension. Check synchronization between step/pallet band and the handrail.



Safety Features Ride Comfort Handrail Decks & Skirt Step plate/ pallate Comb plate Landing Platform Pit Pendant Control Controller **Step Chain** Motor Drive connection **Brake Distance** Clearance/ Gap Signage



DECKS & SKIRT

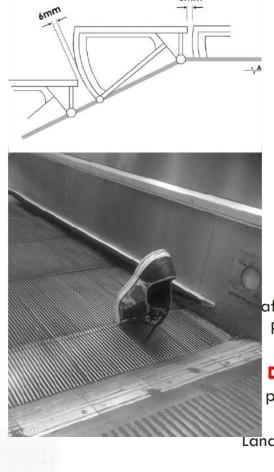
Conditions

Clearance

Skirt Deflector (Brush/Rubber)

Checking the nominal gap clearance between step and skirt: * Max. 4 mm on one side and * 7 mm in total on both sides

Step

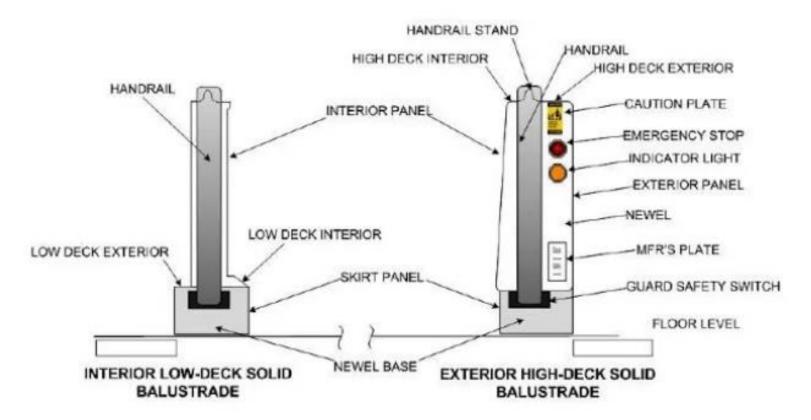


afety Features **Ride Comfort** Handrail **Decks & Skirt** plate/ palate Comb plate Landing Platform Pit Pendant Control Controller **Step Chain Motor Drive** connection **Brake** Distance Clearance/ Gap Signage

BALUSTRADE

Check condition of panels.

Check fixings of interior claddings



STEP PLATE/ PALLATE

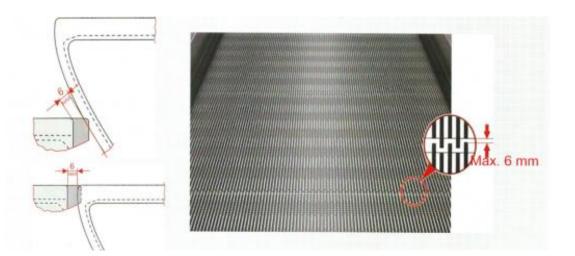
Condition

Check step/pallet and step/pallet wheels for integrity.

Yellow demarcation

Clearance

Check track for condition and wear. Check fixings - roller



Safety Features Ride Comfort Handrail Decks & Skirt Step plate/ pallate Landing Platform Pit Pendant Control Controller Step Chain Motor Drive connection Brake Distance Clearance/ Gap Signage Safety design to prevent trapping between two consecutive steps and between steps and skirting

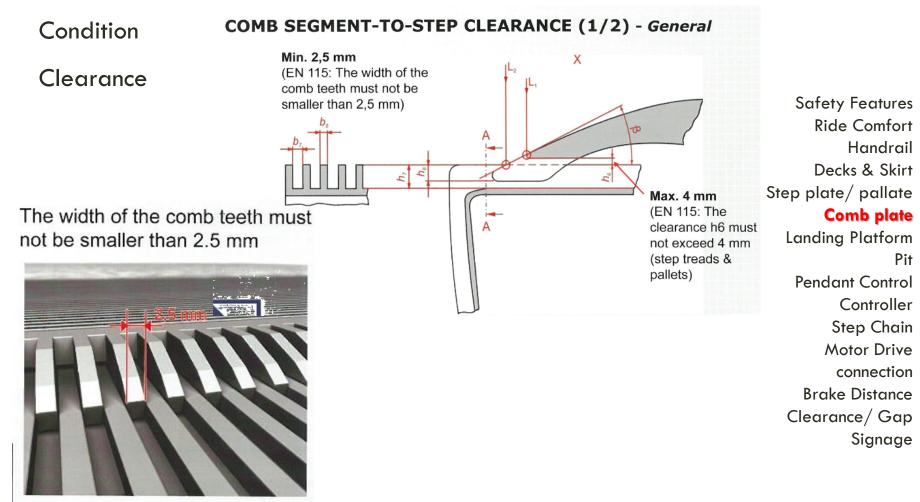
shall not exceed 4mm and 6mm respectively,



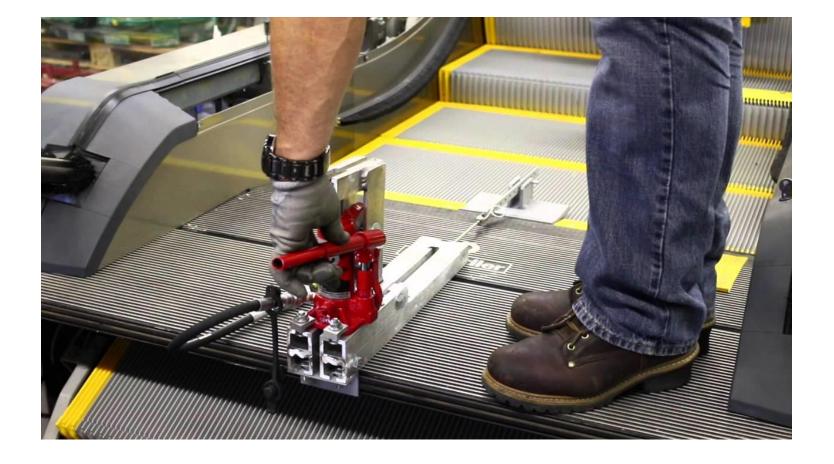
COMB/ COMB PLATE

Check condition.

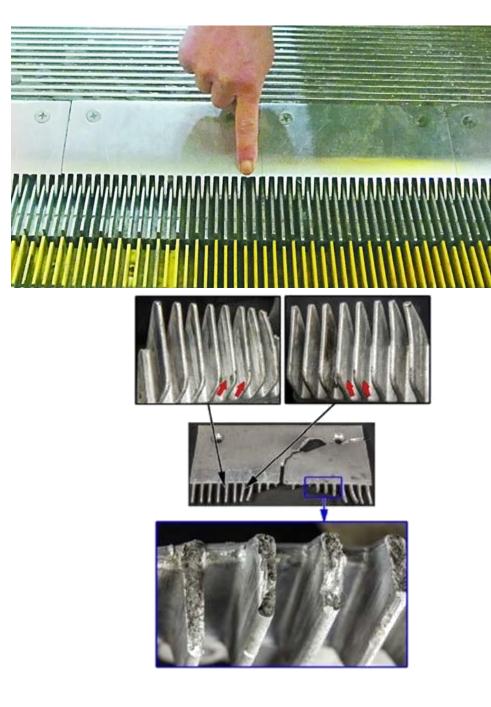
Check meshing with steps, pallets or belt.



COMB PLATE TESTING DEVICE







LANDING PLATFORM/ DECKING

Condition

Grove

Nuts/ Screws

Carpets/

Clearance



Safety Features Ride Comfort Handrail Decks & Skirt Step plate/ pallate Comb plate Landing Platform Pit Pendant Control Controller Step Chain Motor Drive

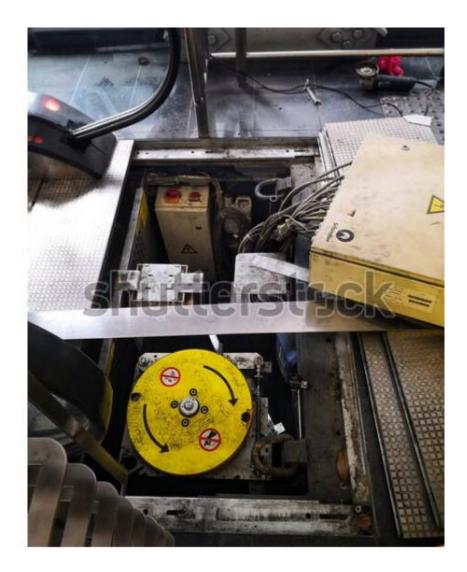
> Brake Distance Clearance/Gap Signage

connection

PIT

Housekeeping

Conditions



Safety Features **Ride Comfort** Handrail Decks & Skirt Step plate/ pallate Comb plate Landing Platform Pit Pendant Control Controller Step Chain Motor Drive connection **Brake Distance** ${\sf Clearance}/{\sf \,Gap}$ Signage

CONTROLLER & PENDANT CONTROL

Check cabinet is clean, dry and free from dust

Wiring condition









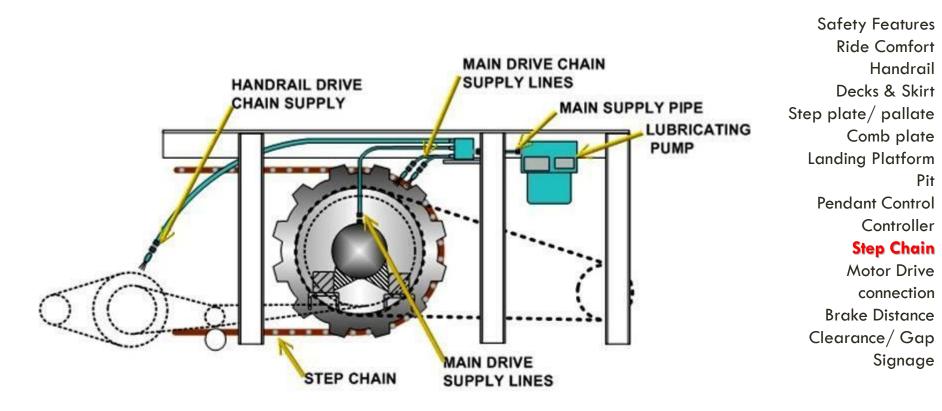
Safety Features Ride Comfort Handrail Decks & Skirt Step plate/ pallate Comb plate Landing Platform Pit

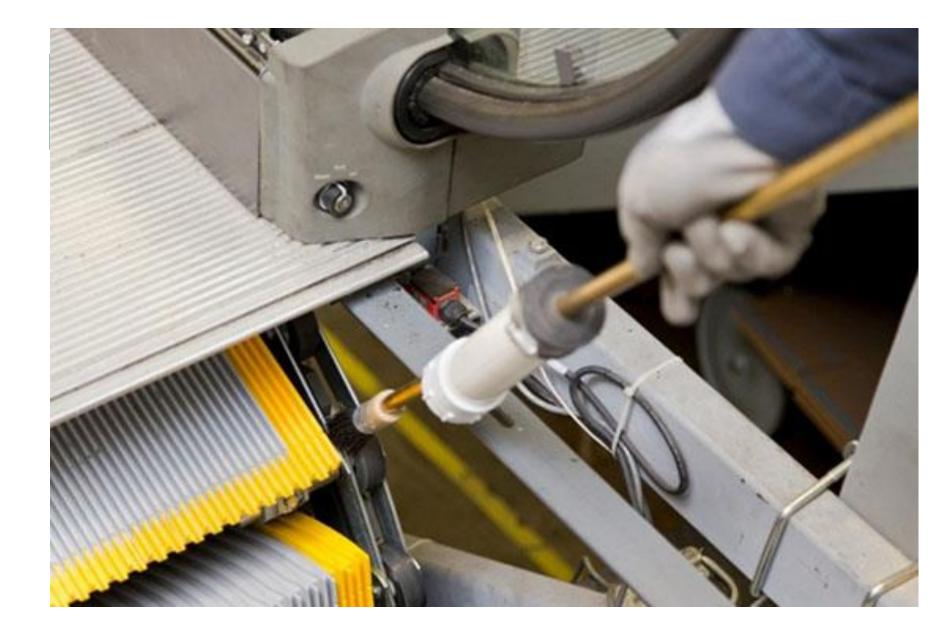
Pendant Control

Controller Step Chain Motor Drive connection Brake Distance Clearance/ Gap Signage

MAIN DRIVE CHAIN/STEP CHAIN

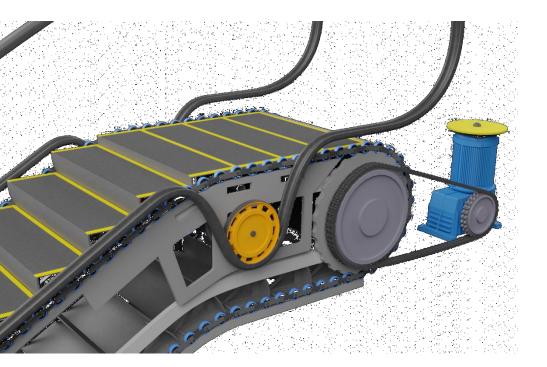
Check for tension and wear. Check lubrication. Wheel/ sprocket





MOTOR DRIVE CONNECTION

Check gear and associated parts Check lubrication Check bearings for wear Check belt - for condition and tension. Abnormal noise



Safety Features Ride Comfort Handrail Decks & Skirt Step plate/ pallate Comb plate Landing Platform Pit Pendant Control Controller **Step Chain Motor Drive** connection Brake Clearance/Gap Signage

BRAKE

Check braking system. Main/ auxiliary Check parts for wear. Brake distance

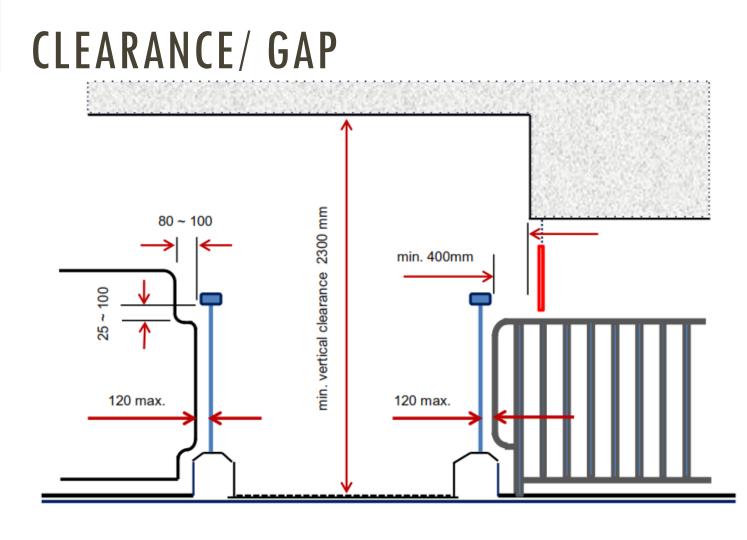
Rated speed	Stopping distance between (meter)			
m/s	Minimum	Maximum		
0.50	0.20	1.00		
0.65	0.30	1.30		
0.75	0.35	1.50		
0.90	0.55	1.70		

Step 1: Mark the step and skirt Step 2: Test stopping





Safety Features Ride Comfort Handrail Decks & Skirt Step plate / pallate Comb plate Landing Platform Step 3: Measure the distance Pit Pendant Control Controller **Step Chain** Motor Drive connection **Brake** Clearance/ Gap Signage

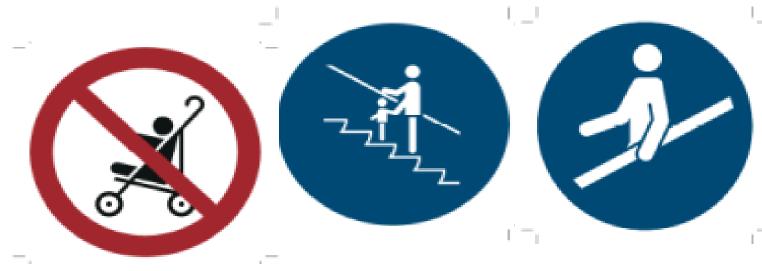


Safety Features Ride Comfort Handrail Decks & Skirt p plate/ pallate Comb plate Landing Platform Pit Pendant Control Controller Step Chain Motor Drive connection Brake Distance

Signage

SIGNAGE/ PICTOGRAM

Min. 80mm





Safety Features **Ride Comfort** Handrail Decks & Skirt Step plate/ pallate Comb plate Landing Platform Pit Pendant Control Controller Step Chain Motor Drive connection **Brake Distance** Clearance/ Gap Signage

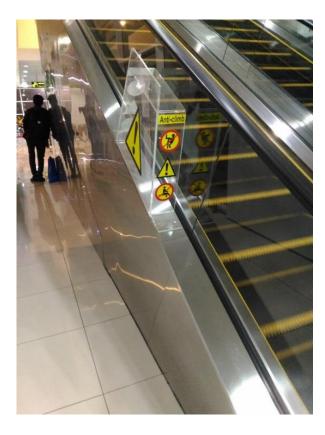


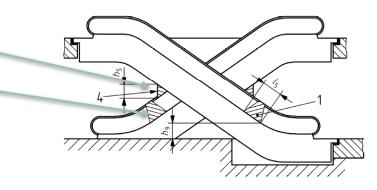
SAFETY GUARD

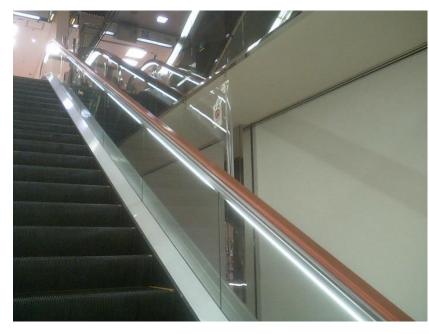
Triangular guard

Anti Sliding

Clearance guarding







Safety Features **Ride Comfort** Handrail Decks & Skirt Step plate/ pallate Comb plate Landing Platform Pit Pendant Control Controller Step Chain Motor Drive connection **Brake Distance** Clearance/ Gap Signage **Safety Guard**



OTHERS

Lighting Display/Indicator Radar/Sensor

