



Lindab **PKAL**








Installation instruction
Installations vejledning
Montageinstruktion
Asennusohje
Montageanleitung
Istruzioni di montaggio
Instructions de montage



Formo

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Maintenance	UK	- The diffuser can be demounted and vacuum cleaned by using a smooth nozzle brush or wiped off by using a sponge or wiped off with a clean damp sponge or soft cotton cloth.
Vedligeholdelse	DK	- Diffusoren kan demonteres og støvsuges med et blødt børstestykke eller aftørres med en fugtig klud.
Underhåll	SE	- Donet kan demonteras och dammsugas med ett mjukt borstmunstycke eller torkas av med en fuktig trasa.
Huolto	FI	- Laite voidaan puhdistaa imurilla käyttäen pehmeää harjaosaa tai se voidaan pyyhkiä kostutetulla kangasliinalla.
Wartung	DE	- Der Durchlass kann zur Reinigung demontiert werden. Die Reinigung erfolgt entweder mit einem Staubsauger mit einer weichen Düsenbürste oder mit einem weichen Baumwolltuch, das in klares Wasser getaucht und gut ausgewrungen wurde.
Manutenzione	IT	- Il diffusore può essere pulito con una spazzola morbida oppure con una spugna o un panno di cotone leggermente umidi.
Служивание	RU	- Диффузор можно очищать, используя мягкую щетку, впитывать в сухой или влажной чистой хлопчатобумажной тканию.
Entretien	FR	- Le diffuseur peut être démonté et nettoyé avec une brosse d'aspirateur, une éponge propre ou un chiffon humide doux en coton.

Symbols		Supply air		Exhaust air		1, 2, 3 - way
Symboler		Tilluft		fraluft		1, 2, 3 - vejs
Symboler		Tilluft		Frånluft		1, 2, 3 - vägs
Symbolit		Tuloilma		Poistoilma		1, 2, 3 - suuntaa
Symbole		Zuluft		Abluft		1, 2, 3 - seitig
Simboli		Aria di mandata		Aria di estrazione		1, 2, 3 - vie
Сυμβολα		Μπιτοχια βεντιλακια		Βιτοχια βεντιλακια		1, 2, 3 - στροφηνη
Symboles		Soufflage		Extraction		1, 2, 3 - directions

Formo

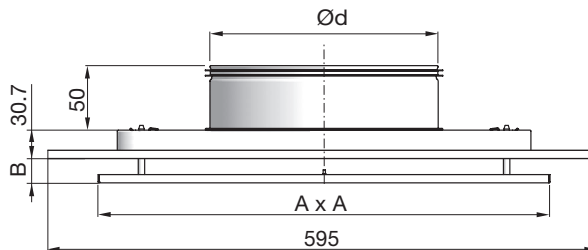
PKAL

Product
Product
Product
Product

PKAL



Dimensions / weight
Mål / vægt
Mått / vikt
Mitta / paino
Abmessungen /Gewicht
Misure / peso
Дазмер / вес
Dimensions / poids



PKAL Ød	A	B	Free area A	m
mm	mm	mm	m ²	kg
125	235	26.8	0.018	3.6
160	295	26.8	0.023	3.9
200	395	26.8	0.03	4.2
250	495	30.9	0.043	4.6

No tools
Ingen værktøj
Inga verktyg
Ei työkaluja
Keine Werkzeuge
Nessun attrezzo
Без инструмента
Sans outil

Order code
Ordre kode
Beställningskod
Tuotekoodi
Bestellcode
Codice d'ordine
Код Заказа
Codification

Order code

Product PKAL aaa bbb
Type PKAL
Connection dim. Ød Ø125-250
Ceiling system: 1

Example: PKAL-200-1

Formo

Overview

Oversigt

Överikt

Yleiskatsaus

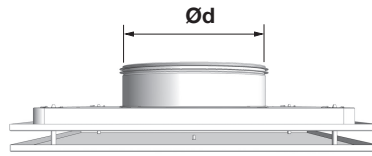
Übersicht

Panoramica

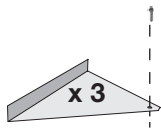
Δόξορ

Aperçu

Accessories / Order code
 Tilbehør / Bestillings kode
 Tillbehör / Beställningskod
 Lisävarusteet / Tilauskoodi
 Zubehör / Bestellbeispiel
 Accessori / Ordinazione
 Аксессуары / Код Заказа
 Accessoires / codification



DAZ



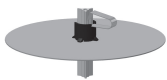
DAZ

aaa

Ød

DRZ / CAZ

Damper - Spjæld - Spjäll - Säätöpelti -
 Drossel - Serranda - Дросель - Register



DRZ (PKA, PCA, LKA, LCA)



CAZ (CRL)

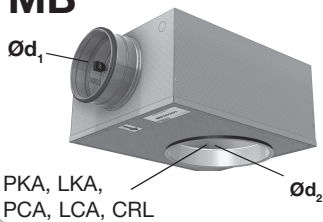
XXX

DRZ
CAZ

aaa

Ød

MB



PKA, LKA,
PCA, LCA, CRL

MB

X

Ød₁

Ød₂

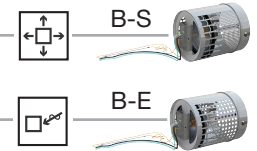
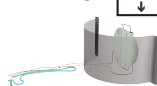
C

E

B

B-S

B-E



Formo

DAZ

Accessories

Tilbehør

Tillbehör

Lisävarusteet

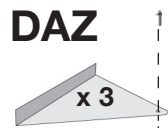
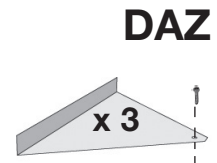
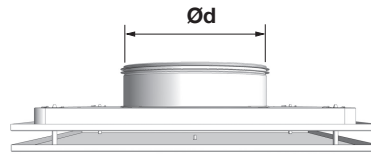
Zubehör

Accessori

Արճեցյաքս

Accessoires

Accessories
Tilbehør
Tillbehör
Lisävarusteet
Zubehör
Accessori
Արճեցյաքս
Accessoires



PKA, LKA, PCA, LCA

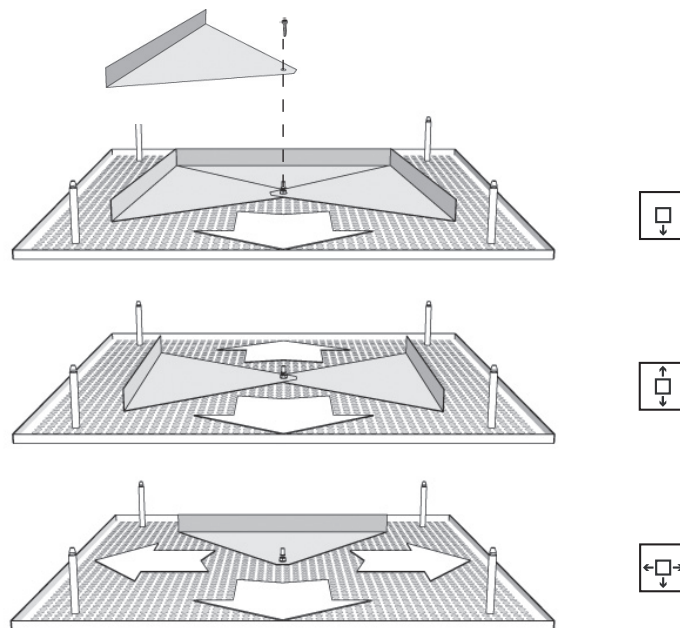


x 3

Ød

Set / Sæt / Sats / Setti
 Set /Set (ITA) / Set (RUS) / Kit

PKA, LKA



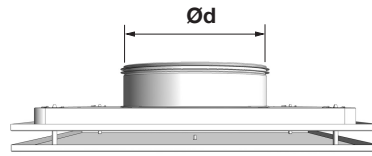
- UK** - DAZ is not used with CRL
- DK** - DAZ anvendes ikke til CRL
- SE** - DAZ används inte för CRL
- FI** - Lisävarustetta DAZ ei käytetä CRL:n kanssa.
- DE** - DAZ wird nicht mit CRL verwendet!
- ITA** - DAZ non usato per CRL
- RUS** - DAZ is not used with CRL
- FR** - DAZ n'est pas compatible avec CRL

Formo

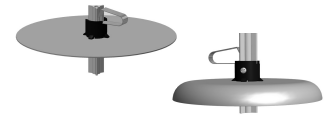
DRZ/CAZ

Accessories Tilbehør Tillbehör Lisävarusteet Zubehör Accessori Аксессуары Accessoires

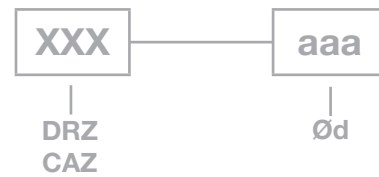
Accessories - Damper
Tilbehør - Spjæld
Tillbehör - Spjäll
Lisävarusteet - Säätöpelti
Zubehör - Drossel
Accessori - Serranda
Аксессуары - Дросель
Accessoires - Registre



DRZ / CAZ

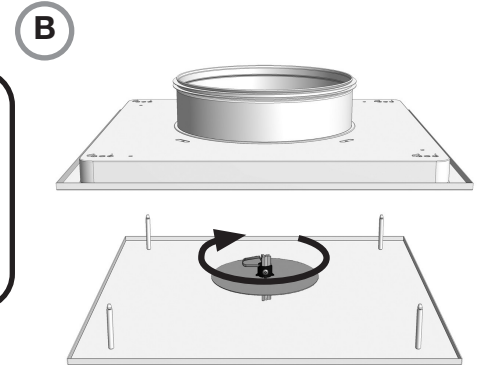
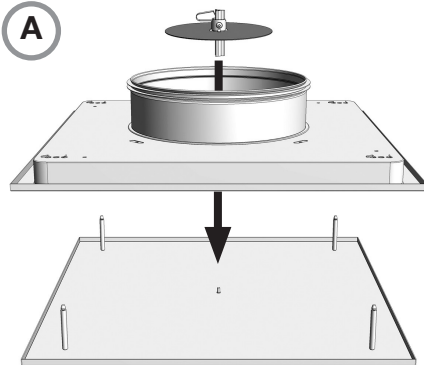


DRZ / CAZ Damper - Spjæld - Spjäll - Säätöpelti -
 Drossel - Serranda - Дросель - Registre

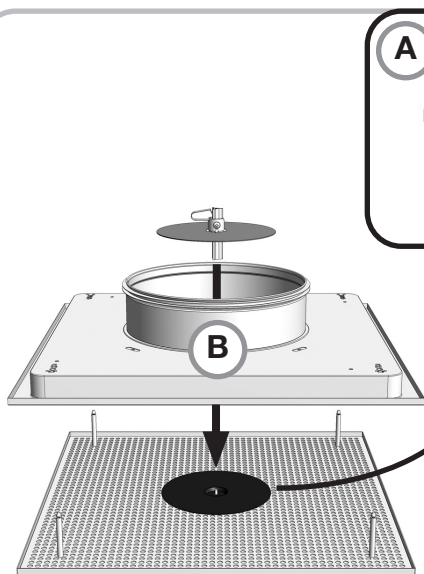


DRZ (PKA, PCA, LKA, LCA)

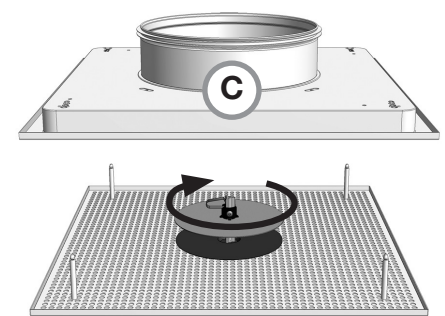
CAZ (CRL)



Without deflector plate
 Uden prelplade
 Utan avskärningsplåt
 Ilman suojalevyä
 Ohne Prallplatte - DE
 Senza piastra deflettrice
 Without deflectorplate -RUS
 Sans plaque défectrice



A Demount nut - if deflector plate is included
 Demonter møtrik - hvis prelplade er inkluderet
 Demontera mutter - om avskärningsplåt är inkluderad
 Irrota mutteri, jos suojalevy on mukana
 Prallplatte über Mutter lösen und Drossel aufschrauben - DE
 Dado di smontaggio - con piastra deflettrice inclusa
 Demount nut - if deflector plate is included -RUS
 Démonter l'écrou - si la plaque défectrice est incluse

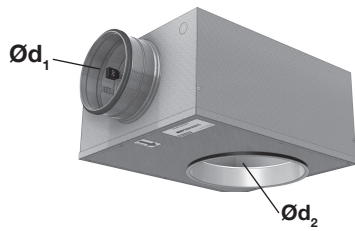


Formo

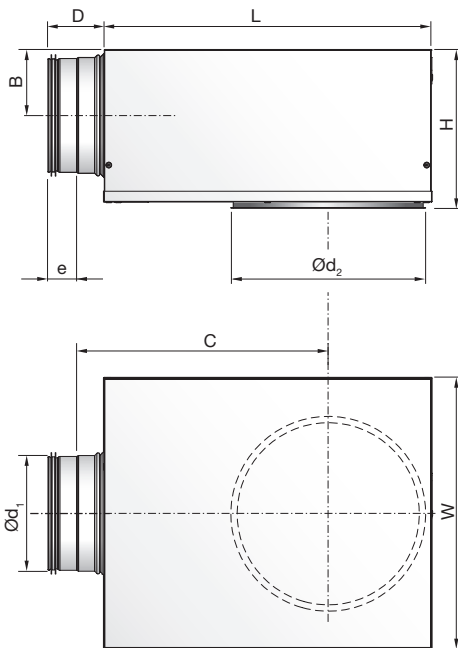
MB

Accessories MB Tilbehør MB Tillbehör MB Lisävarusteet MB Zubehör MB Accessori MB Аксессуары MB 配件 MB Accessoires MB

Dimensions MB
Dimensioner MB
Dimensioner MB
Mitat MB
Dimensionen MB
Dimensioni MB
Dimensions MB




Damper options
Spjæld varianter
Spjällalternativ
Säätöpeltivaihtoehdot
Drosselvarianten
Serranda disponibili
Type de registres

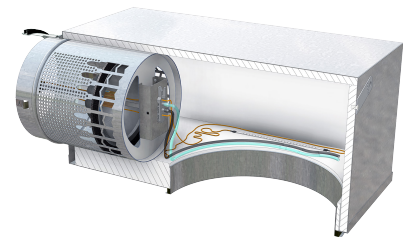
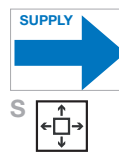


Ød ₁ mm	Ød ₂ mm	B	C	D	e mm	H	L	W	m kg
100	100	62	245	78	40	163	310	260	2,6
100	125	62	245	78	40	163	310	260	2,6
100	160	62	245	78	40	163	310	260	2,6
125	125*	75	291	78	40	188	376	310	3,7
125	160	75	291	78	40	188	376	310	3,7
125	200	75	291	78	40	188	376	310	3,7
160	160*	92	352	78	40	222	459	380	5,5
160	200	92	352	78	40	222	459	380	5,5
160	250	92	352	78	40	222	459	380	5,5
200	200*	112	425	78	40	263	565	460	7,3
200	250	112	425	78	40	263	565	460	7,3
200	315	112	425	78	40	263	565	460	7,3
250	250*	137	514	118	60	313	698	540	10,6
250	315	137	514	118	60	313	698	540	10,6
250	400	137	514	118	60	313	698	540	10,6
315	315*	170	675	118	60	378	858	540	13,5
315	400	170	675	118	60	378	858	540	13,5

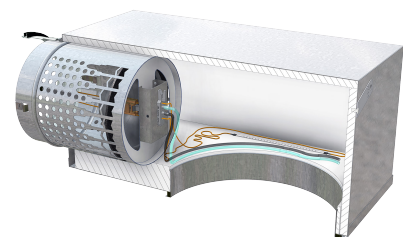
*) Ød₁ = Ød₂ Not available in Sweden, except 315-315 (with some diffusers).

*) Ød₁ = Ød₂ Ej tillgänglig i Sverige, undantaget 315-315 (med vissa don).
 !  PC6, PC7, RC14, RC15, NC19, LCC, LCP, LKP PS1-V, PS8-V RS14-V, RS15-V, RS16-V, GS23-V

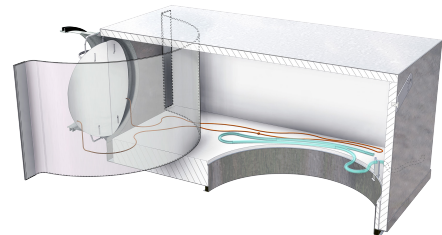
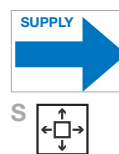
MBB-S



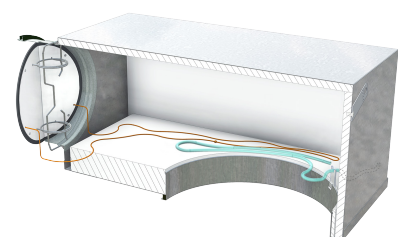
MBB-E



MBC



MBE

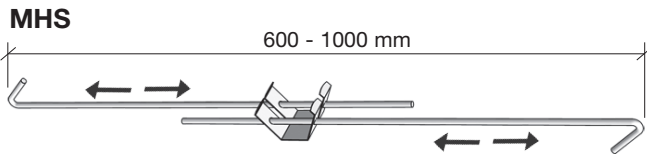
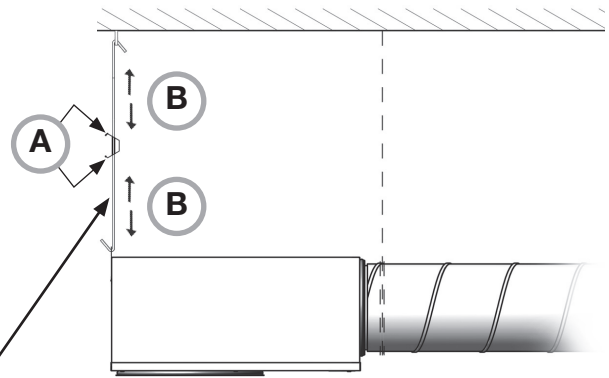
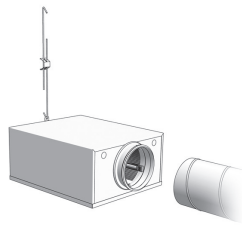


Formo

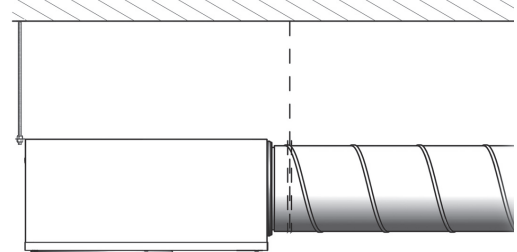
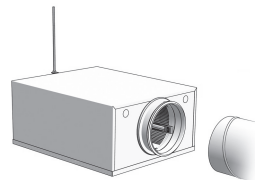
MB

Accessories MB Tilbehør MB Tillbehör MB Lisävarusteet MB Zubehör MB Accessori MB Аксессуары MB Accessoires MB

- Mounting of MB** - MHS
- Ophængning af MB** - MHS
- Upphängning av MB** - MHS
- Kannakointi MB** - MHS
- Montage des MB** - MHS
- Montaggio di MB** - MHS
- Монтаж MB** - MHS
- Montage de MB** - MHS



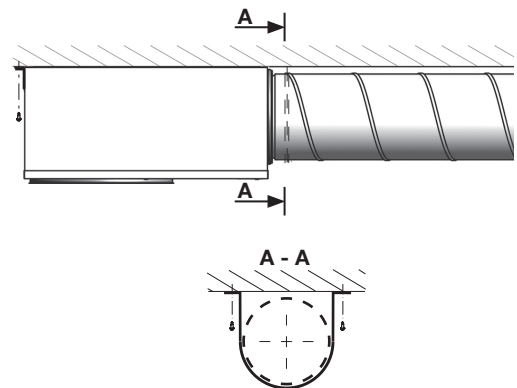
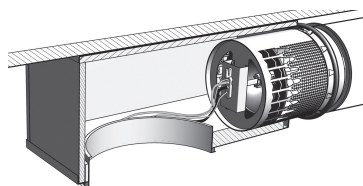
- Threaded bar**
- Gevindstang**
- Gängstång**
- Kierretanko**
- Gewindestange**
- Barre filettate**
- Крепежная шпилька**
- Tiges filettées**



M8

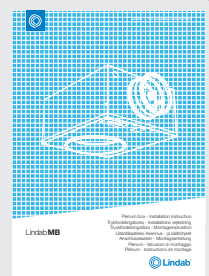


- Directly against ceiling**
- Direkte mod loft**
- Dikt mot tak**
- Suoraan kattopintaan**
- Direkt an die Decke**
- Direttamente a soffitto**
- К потолка**
- Directement contre le plafond**

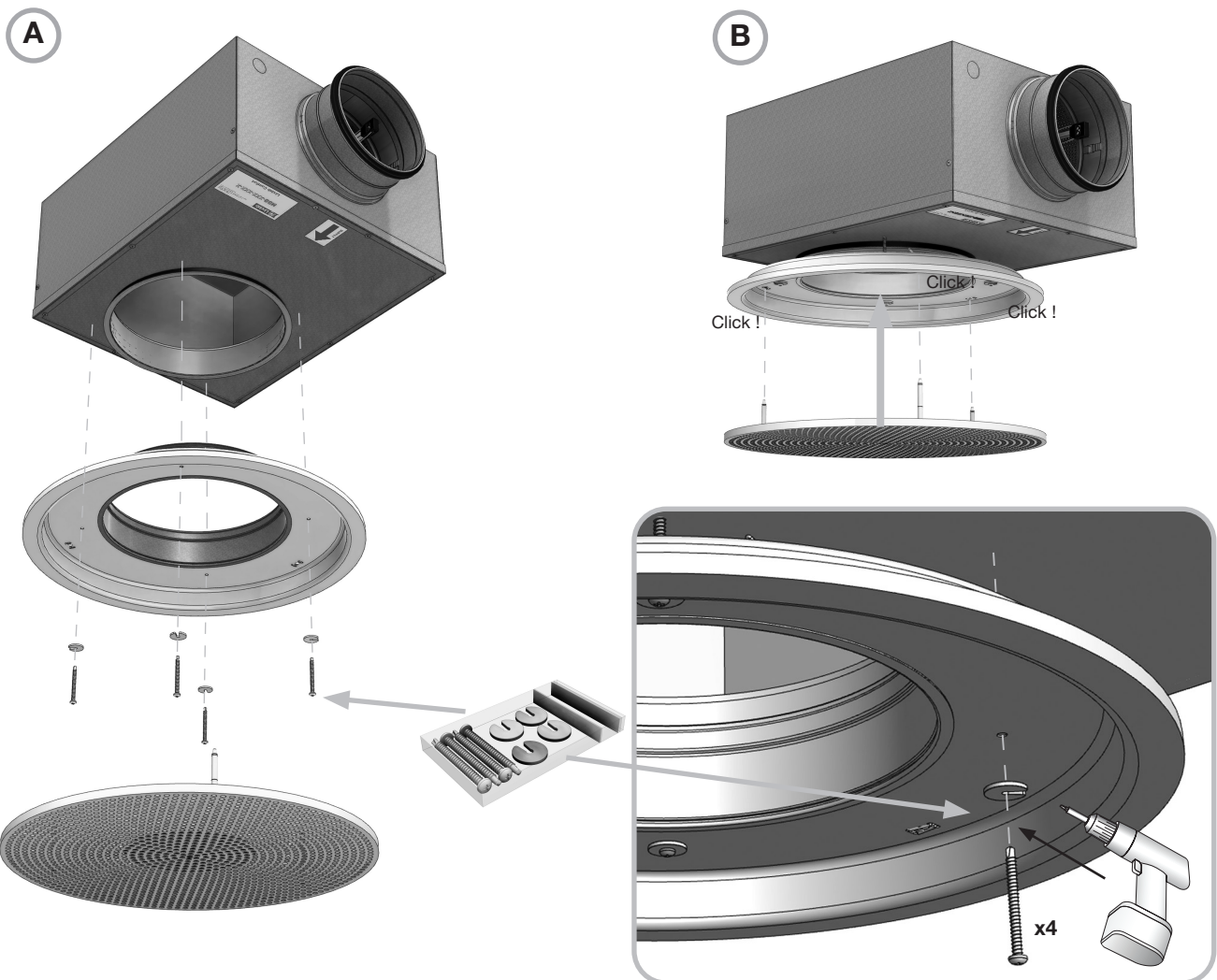


Mounting of MB, details go to - Mounting -and balancing instruction
 Ophængning af MB, detaljer se - Montage -og indregulerings vejledning
 Upphängning av MB, detaljer gå till - Montage och injusteringsinstruktion
 Kannakointi MB, lisätietoja oppaasta - Asennus- ja säätöohjeet
 Montage des MB, details go to - Montage und Einregulierungsanweisung
 Montaggio di MB, per dettagli vedere - Istruzioni di montaggio e bilanciamento
 Монтаж MB, детали go to - Инструкция по монтажу и балансировке
 Montage de MB, détails voir - Instructions de montage et réglage

MB →



Mounting of diffuser in MB
Montering af armatur i MB
Montering av don i MB
Hajottajan asennus liitäntälaatikkoon MB
Durchlassmontage im MB
Montaggio del diffusore in MB
Montage du diffuseur dans MB



Formo

MB/MBZ

Accessories MBZ Tilbehør MBZ Tillbehör MBZ Lisävarusteet MBZ Zubehör MB/MBZ Accessori MBZ Аксессуары MBZ Accessoires MBZ

MBZ - Optional accessories

MBZ - Ekstra tilbehør

MBZ - Tillbehör som tillval

MBZ - Lisävarusteet tilauksesta

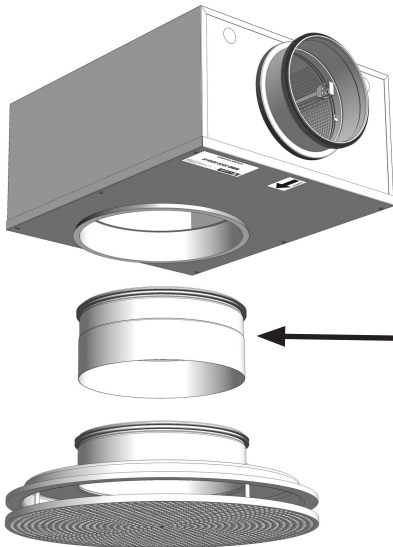
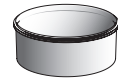
MBZ - Verlängerungsstutzen

MBZ - Accessori su richiesta

MBZ - Дополнительные аксессуары

MBZ - Accessoires optionnels

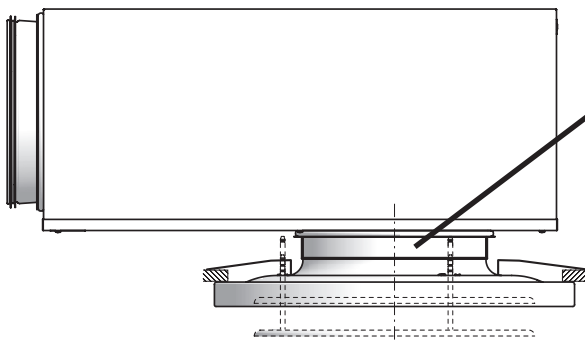
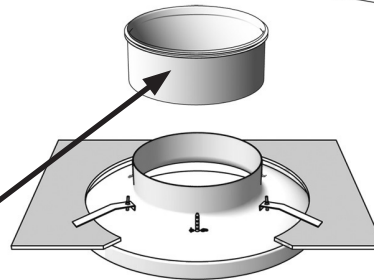
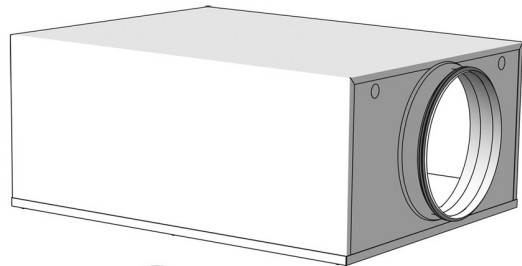
MBZ



Extension piece
 Forlængerstykke
 Förlängningsstos
 Jatkokappale
 Verlängerungsstutzen
 Manicotto maschio femmina di prolungamento
 Գ ը լ խ ու մ Ե Ն
 Rallonge

Using CRL + MB => Always use MBZ !
 Anvendelse af CRL + MB => Brug altid MBZ !
 Användning av CRL + MB => Använd alltid MBZ !
 Käytettäessä CRL+MB => Käytä aina MBZ-liitososa!
 CRL + MB => immer MBZ verwenden !
 Per CRL + MB => Usare sempre MBZ!>
 Using CRL + MB => Always use MBZ ! - RUS
 Utiliser CRL + MB => Toujours utiliser MBZ

This will ensure full motion of faceplate
 Dette vil sikre fuld bevægelse af bundpladen
 Detta kommer att säkerställa full rörlighet av bottenplattan
 Tämä takaa etulevyn täyden liikkuvuuden.
 Dies garantiert die Verstellbarkeit der Frontplatte! - DE
 Questo assicura la completa mobilità della piastra frontale
 This will ensure full motion of faceplate - RUS
 Ceci permettra l'utilisation optimale du cône réglable



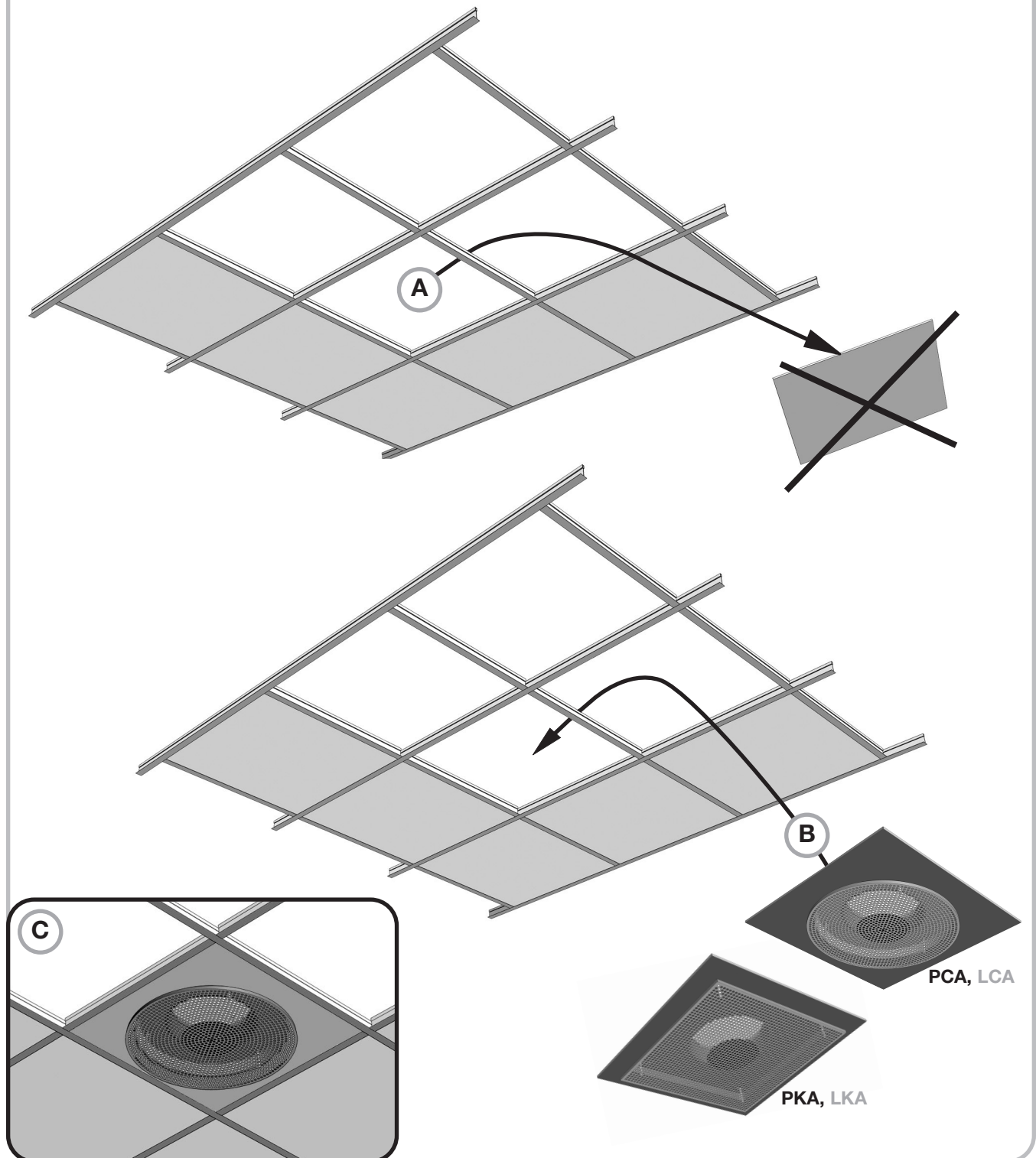
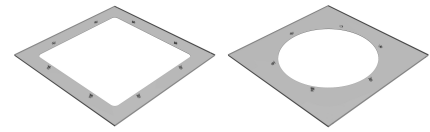
Formo

LM

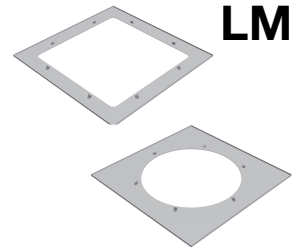
Accessories LM Tilbehør LM Tillbehör LM Lisävarusteet LM Zubehör LM Accessori LM Аксессуары LM Accessoires LM

Mounting of diffuser in ceiling with LM module plate
Montering af armatur i loft med LM modulplade
Montering av don i tak med LM modulram
Hajottajan asennus alakattoon LM-moduulilevyn kanssa.
Montage des Durchlasses in der Decke mit LM Modulplatte
Montaggio del diffusore nel controsoffitto usando la cornice LM
Mounting of diffuser in ceiling with LM module plate -RUS
Montage du diffuseur dans le plafond avec plaque d'habillage LM

LM

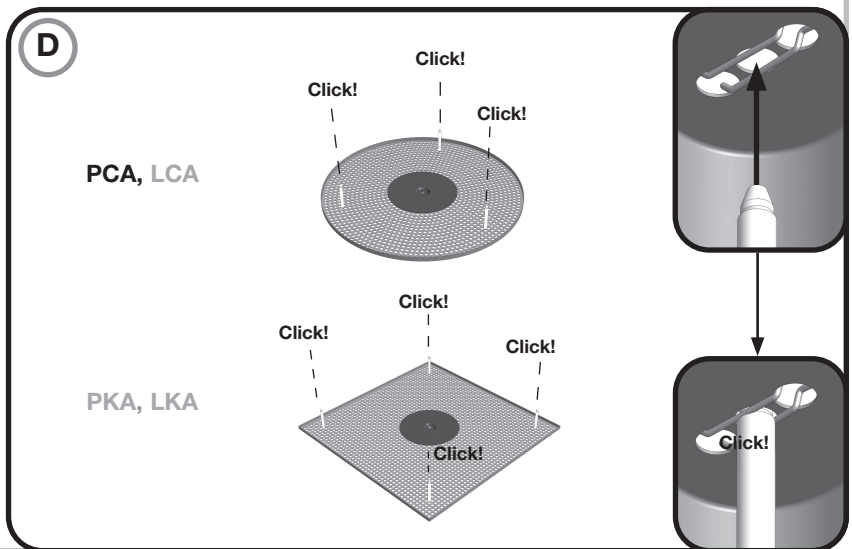
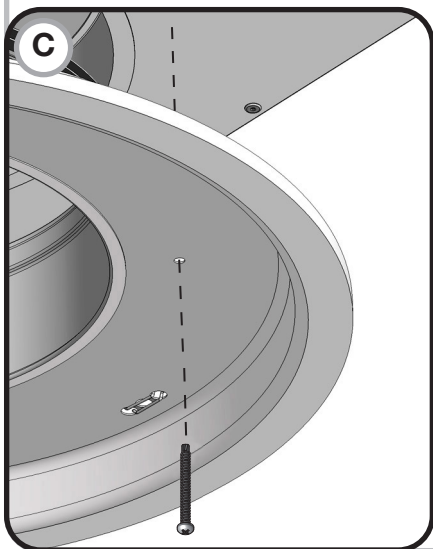
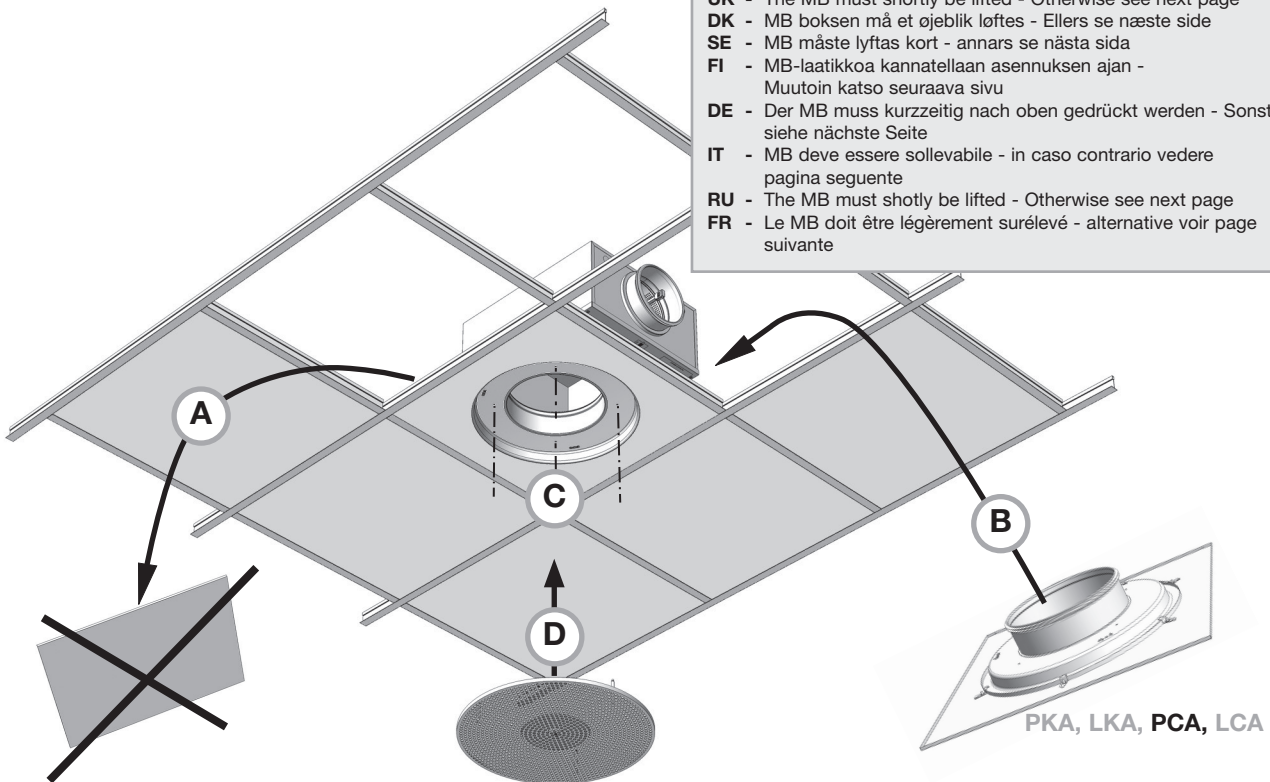


Mounting of diffuser + MB in ceiling with LM module plate
Montering af armatur + MB i loft med LM modulplade
Montering av don + MB i tak med LM modulram
Hajottajan ja MB-liitäntälaatikon asennus alakattoon LM-moduulilevyn kanssa.
Montage des Durchlasses + MB in der Decke mit LM Modulplatte
Montaggio del diffusore + MB in controsoffitto con cornice LM
Mounting of diffuser + MB in ceiling with LM module plate -RUS
Montage du diffuseur + MB dans le plafond avec plaque d'habillage LM



!

- UK** - The MB must shortly be lifted - Otherwise see next page
- DK** - MB boksen må et øjeblik løftes - Ellers se næste side
- SE** - MB måste lyftas kort - annars se nästa sida
- FI** - MB-laatikkoa kannatellaan asennuksen ajan - Muutoin katso seuraava sivu
- DE** - Der MB muss kurzzeitig nach oben gedrückt werden - Sonst siehe nächste Seite
- IT** - MB deve essere sollevabile - in caso contrario vedere pagina seguente
- RU** - The MB must shortly be lifted - Otherwise see next page
- FR** - Le MB doit être légèrement surélevé - alternative voir page suivante



Mounting of diffuser + MB in ceiling with LM module plate

Montering af armatur + MB i loft med LM modulplade

Montering av don + MB i tak med LM modulram

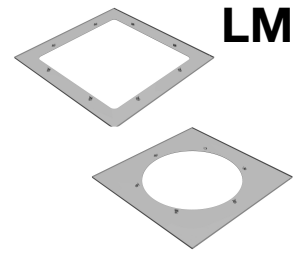
Hajottajan ja MB-liitäntälaatikon asennus alakattoon LM-moduulilevyn kanssa.

Montage des Durchlasses + MB in der Decke mit LM Modulplatte

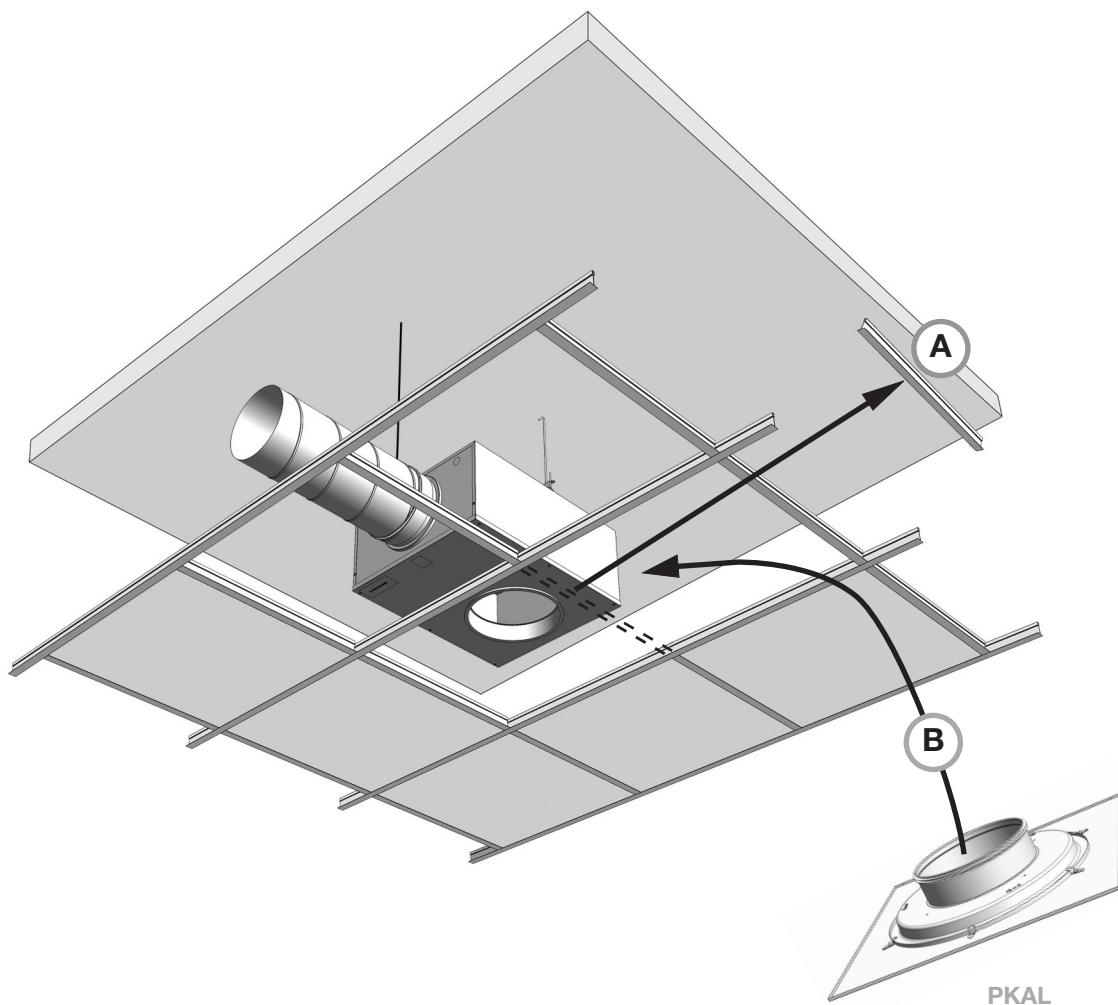
Montaggio del diffusore + MB in controsoffitto con cornice LM

Mounting of diffuser + MB in ceiling with LM module plate -RUS

Montage du diffuseur + MB dans le plafond avec plaque d'habillage LM



- UK** - Not enough space above suspended ceiling when mounting MBB + LM - Remove one T-runner while mounting
- DK** - For lidt plads over nedsænket loft ved montage af MBB + LM - Fjern en loft-skinne under montage
- SE** - Vid otillräcklig plats ovan undertaket vid montage av MBB+LM - Demontera en undertaksskena vid montage
- FI** - Jos alakaton yläpuolella ei ole tarpeeksi tilaa asennuksen aikana, poista yksi T-lista asennuksen ajaksi
- DE** - Wenig Platz im Deckenhohlraum bei Montage MBB + LM - Entfernen Sie einen T-Träger für die Montage
- IT** - In caso non vi sia spazio in fase di montaggio dell'MBB + LM - Smontare una barra a T
- FR** - Pas assez de place dans le plafond lors du montage de MBB + LM - Retirer un support en T pendant le montage



Formo

LM

Overview LM

Oversigt LM

Översikt LM

Yleiskatsaus LM

Übersicht LM

Panoramica LM

Ճճոթ ԶՊ

Aperçu LM

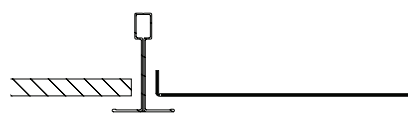
Overview LM module plates
Oversigt LM modulplader
Översikt LM Modulramar
Yleiskatsaus LM Moduulilevy
Übersicht LM Modulplatten
Panoramica LM Piastra modulare per controsoffiti
 Ճճոթ ԶՊ
Aperçu plaques d'habillage LM

! **LM**

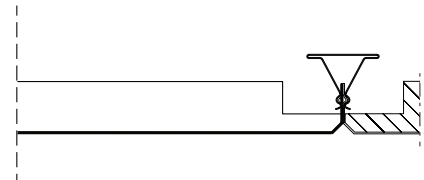
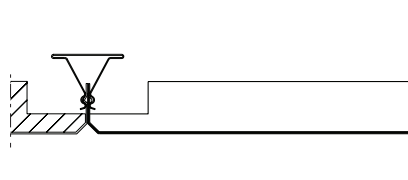
UK - LM module plate adapted to ceiling system 1 - 21
 DK - LM modulplader tilpasset loftsystem 1 - 21
 SE - LM modulramar anpassat till undertakssystem 1 - 21
 FI - LM-moduulilevy sovitettu kattojärjestelmään 1-21
 DE - LM Modulplatten angepasst für Deckensysteme 1-21
 IT - La cornice LM è adatta per sistemi di controsoffitto tipo 1 - 21
 RU - LM module plate adapted to ceiling system 1 - 21 - RUS
 Plaques d'habillage LM adaptées aux systèmes de plafond 1 - 21

1, 21

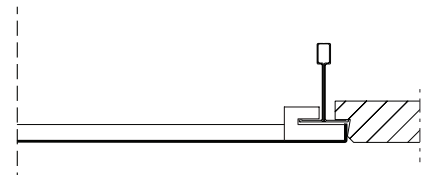
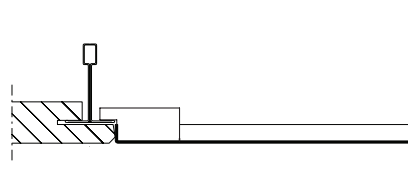
1. = 600 x 600
 21.= 625 x 625



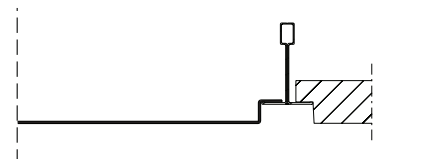
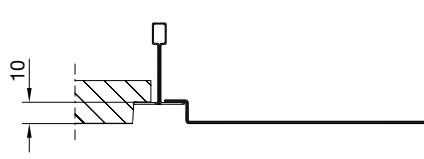
4, 5, 6



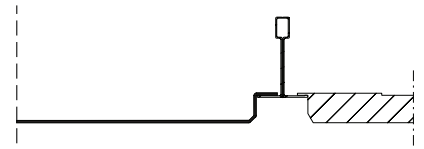
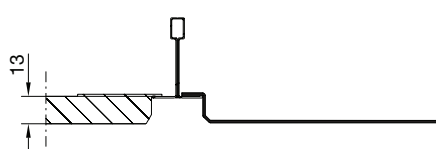
7, 8



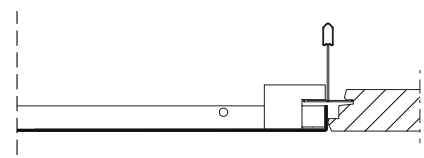
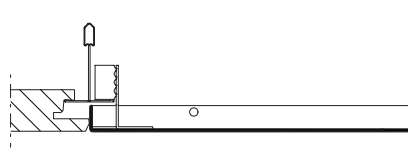
9, 10



11



14



Formo

LM

Maintenance
Vedligeholdelse
Underhåll
Huolto
Wartung
Manutenzione
Обслуживание
Entretien

- UK** - The diffuser can be demounted and vacuum cleaned by using a smooth nozzle brush or wiped off by using a sponge or wiped off with a clean damp sponge or soft cotton cloth.
- DK** - Diffusoren kan demonteres og støvsuges med et blødt børstestykke eller aftørres med en fugtig klud.
- SE** - Donet kan demonteras och dammsugas med ett mjukt borstmunstycke eller torkas av med en fuktig trasa.
- FI** - Laite voidaan puhdistaa imurilla käyttäen pehmeää harjaosaa tai se voidaan pyyhkiä kostutetulla kangasliinalla.
- DE** - Der Durchlass kann zur Reinigung demontiert werden.
Die Reinigung erfolgt entweder mit einem Staubsauger mit einer weichen Düsenbürste oder mit einem weichen Baumwolltuch, das in klares Wasser getaucht und gut ausgewrungen wurde.
- IT** - Il diffusore può essere pulito con una spazzola morbida oppure con una spugna o un panno di cotone leggermente umidi.
- RU** - Диффузор можно очищать, используя мягкую щетку, впитывать ветошь или влажной сильно отжатой хлопчатобумажной тканью.
- FR** - Le diffuseur peut être démonté et nettoyé avec une brosse d'aspirateur, une éponge propre ou un chiffon humide doux en coton.



Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

[Lindab](#) | For a better climate