

# Technical Data Sheet

## Vergokan NEMA 1 Ladder

### Catalogue Nos:

VL series

### Product Description:

A NEMA 1 cable ladder system available in two side rail heights (60mm/VL60 and 85mm/VL85) and four cable laying width 150/300/450/600mm. Manufactured from light weight steel. The unique S profile side rail offers extra stability and firmness whilst maintaining cable ladder strength.

### Features:

- Light weight steel
- Perforated S-profile side rails
- Alternating rung orientations
- Superior load rating capacity for a medium duty ladder
- Cost-effective to install
- Wide range of accessories in kit form for ease of ordering
- Smooth finish

### Standards:

NEMA VE1  
IEC 61537 for Electrical Continuity

### Finishes:

Pre-Galvanised: TrueGalv®



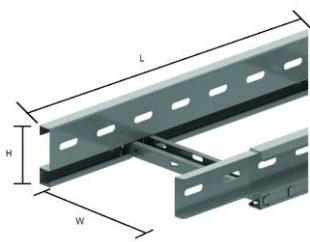
### Applications:

- Data Centres
- Carparks
- Renewables
- Infrastructure
- Commercial buildings
- Shopping Centres
- Warehouse & distribution

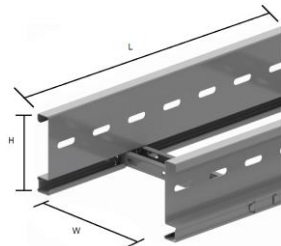
# Technical Data Sheet

## Dimensions:

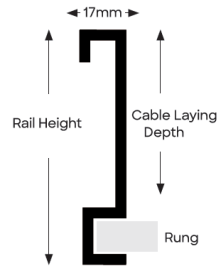
### Ladder



VL60

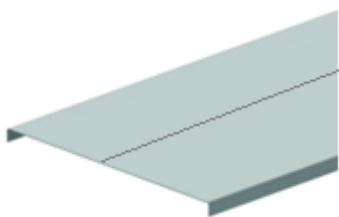


VL85

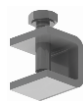


Side Rail View

Cat No	Mat No	W	Cable Laying Width	H	Cable laying Depth	L	Cover Cat No	Mat No
<b>VL60 Ladder (NEMA 12AA)</b>								
VL60.150	4042163	184mm	150mm	60mm	40mm	6m	VLC.150	4042324
VL60.300	4042164	334mm	300mm	60mm	40mm	6m	VLC.300	4042325
VL60.450	4042165	484mm	450mm	60mm	40mm	6m	VLC.450	4042326
VL60.600	4042166	634mm	600mm	60mm	40mm	6m	VLC.600	4042327
<b>VL85 Ladder (NEMA 12A)</b>								
VL85.150	4042167	184mm	150mm	85mm	65mm	6m	VLC.150	4042324
VL85.300	4042168	334mm	300mm	85mm	65mm	6m	VLC.300	4042325
VL85.450	4042169	484mm	450mm	85mm	65mm	6m	VLC.450	4042326
VL85.600	4042170	634mm	600mm	85mm	65mm	6m	VLC.600	4042327



Standard Cover - 3m length



Cover Clamp  
(Ordered separately)  
6 required per cover  
Cat No: VLCC  
Mat No: 4042065

# Technical Data Sheet

## Bend



Bend supplied complete with nuts & bolts as a kit

Cat No	Mat No	Bend Radius	Cable Laying Width	Rail Height	Cable laying Depth	Cover Cat No	Mat No
<b>VL60 Bend (NEMA 12AA)</b>							
VL60B90.150K	4042175	300	150mm	60mm	40mm	VLB90C.150	4042328
VL60B90.300K	4042176	300	300mm	60mm	40mm	VLB90C.300	4042329
VL60B90.450K	4042177	300	450mm	60mm	40mm	VLB90C.450	4042330
VL60B90.600K	4042178	300	600mm	60mm	40mm	VLB90C.600	4042331
<b>VL85 Bend (NEMA 12A)</b>							
VL85B90.150K	4042179	450	150mm	85mm	65mm	VLB90C.150	4042328
VL85B90.300K	4042180	450	300mm	85mm	65mm	VLB90C.300	4042329
VL85B90.450K	4042181	450	450mm	85mm	65mm	VLB90C.450	4042330
VL85B90.600K	4042182	450	600mm	85mm	65mm	VLB90C.600	4042331



Standard Bend Cover



Cover Clamp  
(Ordered separately)  
4 required per Bend cover

**For VL60 order**  
Cat No: VL60SCCK  
Mat No: 4042487

**For VL85 order**  
Cat No: VL85SCCK  
Mat No: 4042488

# Technical Data Sheet

## Tee

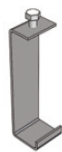


Tee supplied complete with nuts & bolts as a kit

Cat No	Mat No	Radius	Cable Laying Width (W)	Rail Height	Cable laying Depth	Cover Cat No	Mat No
<b>VL60 Bend (NEMA 12AA)</b>							
VL60TEE.150K	4042187	R300	150mm	60mm	40mm	VLTEEC.150	4042332
VL60TEE.300K	4042188	R300	300mm	60mm	40mm	VLTEEC.300	4042333
VL60TEE.450K	4042189	R300	450mm	60mm	40mm	VLTEEC.450	4042334
VL60TEE.600K	4042190	R300	600mm	60mm	40mm	VLTEEC.600	4042335
<b>VL85 Bend (NEMA 12A)</b>							
VL85TEE.150K	4042191	R300	150mm	85mm	65mm	VLTEEC.150	4042332
VL85TEE.300K	4042192	R300	300mm	85mm	65mm	VLTEEC.300	4042333
VL85TEE.450K	4042193	R300	450mm	85mm	65mm	VLTEEC.450	4042334
VL85TEE.600K	4042194	R300	600mm	85mm	65mm	VLTEEC.600	4042335



Tee Cover



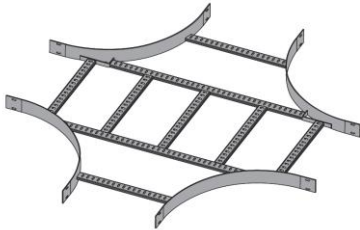
Cover Clamp  
(Ordered separately)  
6 required per Tee cover

**For VL60 order**  
Cat No: VL60SCCK  
Mat No: 4042487

**For VL85 order**  
Cat No: VL85SCCK  
Mat No: 4042488

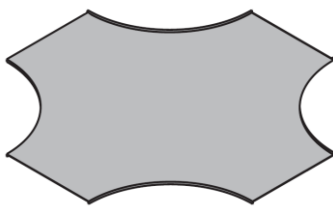
## Technical Data Sheet

### Cross



Cross supplied complete with nuts & bolts as a kit

Cat No	Mat No	Radius	Cable Laying Width (W)	Rail Height	Cable laying Depth	Cover Cat No	Mat No
<b>VL60 Bend (NEMA 12AA)</b>							
VL60CROSS.150K	4042199	R300	150mm	60mm	40mm	VLCROSSC.150	4042337
VL60CROSS.300K	4042200	R300	300mm	60mm	40mm	VLCROSSC.300	4042338
VL60CROSS.450K	4042201	R300	450mm	60mm	40mm	VLCROSSC.450	4042339
VL60CROSS.600K	4042202	R300	600mm	60mm	40mm	VLCROSSC.600	4042340
<b>VL85 Bend (NEMA 12A)</b>							
VL85CROSS.150K	4042203	R300	150mm	85mm	65mm	VLCROSSC.150	4042337
VL85CROSS.300K	4042204	R300	300mm	85mm	65mm	VLCROSSC.300	4042338
VL85CROSS.450K	4042205	R300	450mm	85mm	65mm	VLCROSSC.450	4042339
VL85CROSS.600K	4042206	R300	600mm	85mm	65mm	VLCROSSC.600	4042340



Cross Cover



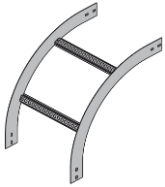
Cover Clamp  
(Ordered separately)  
8 required per Cross cover

**For VL60 order**  
Cat No: VL60SCCK  
Mat No: 4042487

**For VL85 order**  
Cat No: VL85SCCK  
Mat No: 4042488

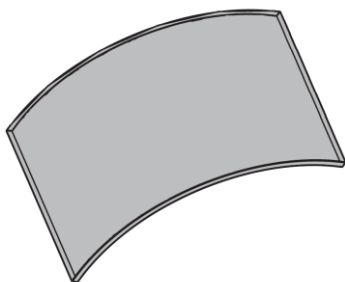
# Technical Data Sheet

## External Riser



External Riser supplied complete with nuts & bolts as a kit

Cat No	Mat No	Radius	Cable Laying Width (W)	Rail Height	Cable laying Depth	Cover Cat No	Mat No
<b>VL60 Bend (NEMA 12AA)</b>							
VL60ER.150K	4042211	R300	150mm	60mm	40mm	VLERC.150	4042345
VL60ER.300K	4042212	R300	300mm	60mm	40mm	VLERC.300	4042346
VL60ER.450K	4042302	R300	450mm	60mm	40mm	VLERC.450	4042347
VL60ER.600K	4042303	R300	600mm	60mm	40mm	VLERC.600	4042348
<b>VL85 Bend (NEMA 12A)</b>							
VL85ER.150K	4042304	R300	150mm	85mm	65mm	VLERC.150	4042345
VL85ER.300K	4042305	R300	300mm	85mm	65mm	VLERC.300	4042346
VL85ER.450K	4042306	R300	450mm	85mm	65mm	VLERC.450	4042347
VL85ER.600K	4042307	R300	600mm	85mm	65mm	VLERC.600	4042348



External Riser Cover



Cover Clamp  
(Ordered separately)  
4 required per Ext Riser cover

**For VL60 order**  
Cat No: VL60SCCK  
Mat No: 4042487

**For VL85 order**  
Cat No: VL85SCCK  
Mat No: 4042488

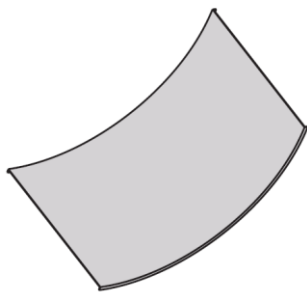
# Technical Data Sheet

## Internal Riser

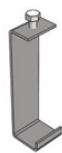


Internal Riser supplied complete with nuts & bolts as a kit

Cat No	Mat No	Radius	Cable Laying Width (W)	Rail Height	Cable laying Depth	Cover Cat No	Mat No
<b>VL60 Bend (NEMA 12AA)</b>							
VL60IR.150K	4042312	R300	150mm	60mm	40mm	VLIRC.150	4042341
VL60IR.300K	4042313	R300	300mm	60mm	40mm	VLIRC.300	4042342
VL60IR.450K	4042314	R300	450mm	60mm	40mm	VLIRC.450	4042343
VL60IR.600K	4042315	R300	600mm	60mm	40mm	VLIRC.600	4042344
<b>VL85 Bend (NEMA 12A)</b>							
VL85IR.150K	4042316	R300	150mm	85mm	65mm	VLIRC.150	4042341
VL85IR.300K	4042317	R300	300mm	85mm	65mm	VLIRC.300	4042342
VL85IR.450K	4042318	R300	450mm	85mm	65mm	VLIRC.450	4042343
VL85IR.600K	4042319	R300	600mm	85mm	65mm	VLIRC.600	4042344



Internal Riser Cover



Cover Clamp  
(Ordered separately)  
4 required per Int Riser cover

**For VL60 order**  
Cat No: VL60SCCK  
Mat No: 4042487

**For VL85 order**  
Cat No: VL85SCCK  
Mat No: 4042488

## Technical Data Sheet

### Accessories:

#### Splice plate kit



Cat No	Mat No	Description
VLSP.85K	4042350	Kit comprises of two splice plates and 8 bolts & nuts. Suitable for VL85 cable ladder

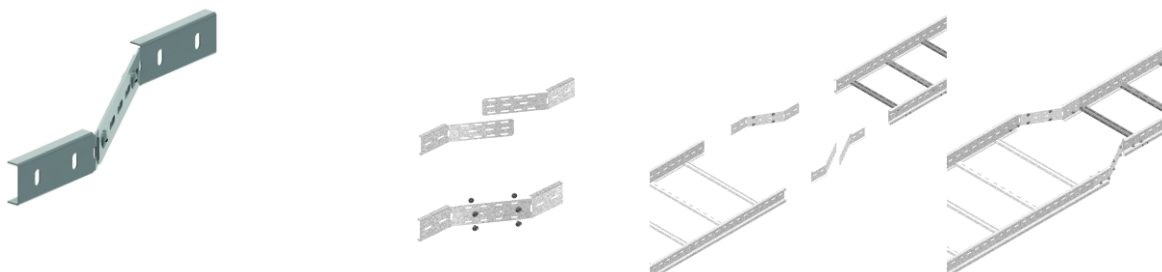
VL60 has an integrated splice plate, order 4042379 VB0610 (pack of 8 x M6 nuts & bolts)

#### Vertical hinged splice plate kit



Cat No	Mat No	Description
VLVHSP.60K	4042353	Kit comprises of two vertical hinged splice plates and 8 bolts & nuts. Suitable for VL60 cable ladder
VLVHSP.85K	4042354	Kit comprises of two vertical hinged splice plates and 8 bolts & nuts. Suitable for VL85 cable ladder

#### Reducer splice plate kit

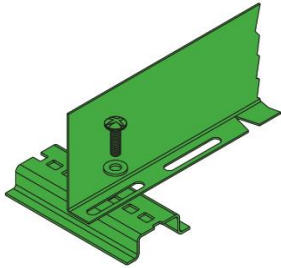


Cat No	Mat No	Description
VLRSP.60K	4042359	Kit comprises of two reducer splice plates and 8 bolts & nuts. Suitable for VL60 cable ladder
VLRSP.85K	4042360	Kit comprises of two reducer splice plates and 8 bolts & nuts. Suitable for VL85 cable ladder



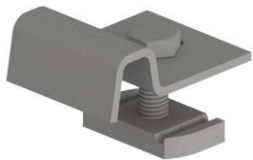
## Technical Data Sheet

### Divider strip



Cat No	Mat No	Description
LEE55-37TG	4040741	Divider strip for VL60 cable ladder. Order nuts & bolts separately
LEM55-70TG	4040742	Divider strip for VL85 cable ladder. Order nuts & bolts separately

### Hold Down Bracket Kit



Cat No	Mat No	Description
VLHDBM8	4042052	Hold down bracket complete with channel nut and bolt

### Spare bolt & nut kit

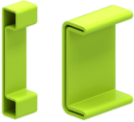



Cat No	Mat No	Description
VB0610	4042379	Spare cup head bolt/flange nut 8pk ZP

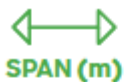
ZP - Zinc plated

## Technical Data Sheet

### Cable ladder end cap kit

	Cat No	Mat No	Description
	VLEC.60K	4042367	End-cap kit for VL60 cable ladder
	VLEC.85K	4042368	End-cap kit for VL85 cable ladder

### Load rating:



#### VL60 Ladder (NEMA 12AA)

3	75
4	43
5	26
6	20

#### VL85 Ladder (NEMA 12A)

3	140
4	80
5	50
6	35

Meets the loading requirements of NEMA 12AA (VL60) and NEMA 12A (VL85) classification.