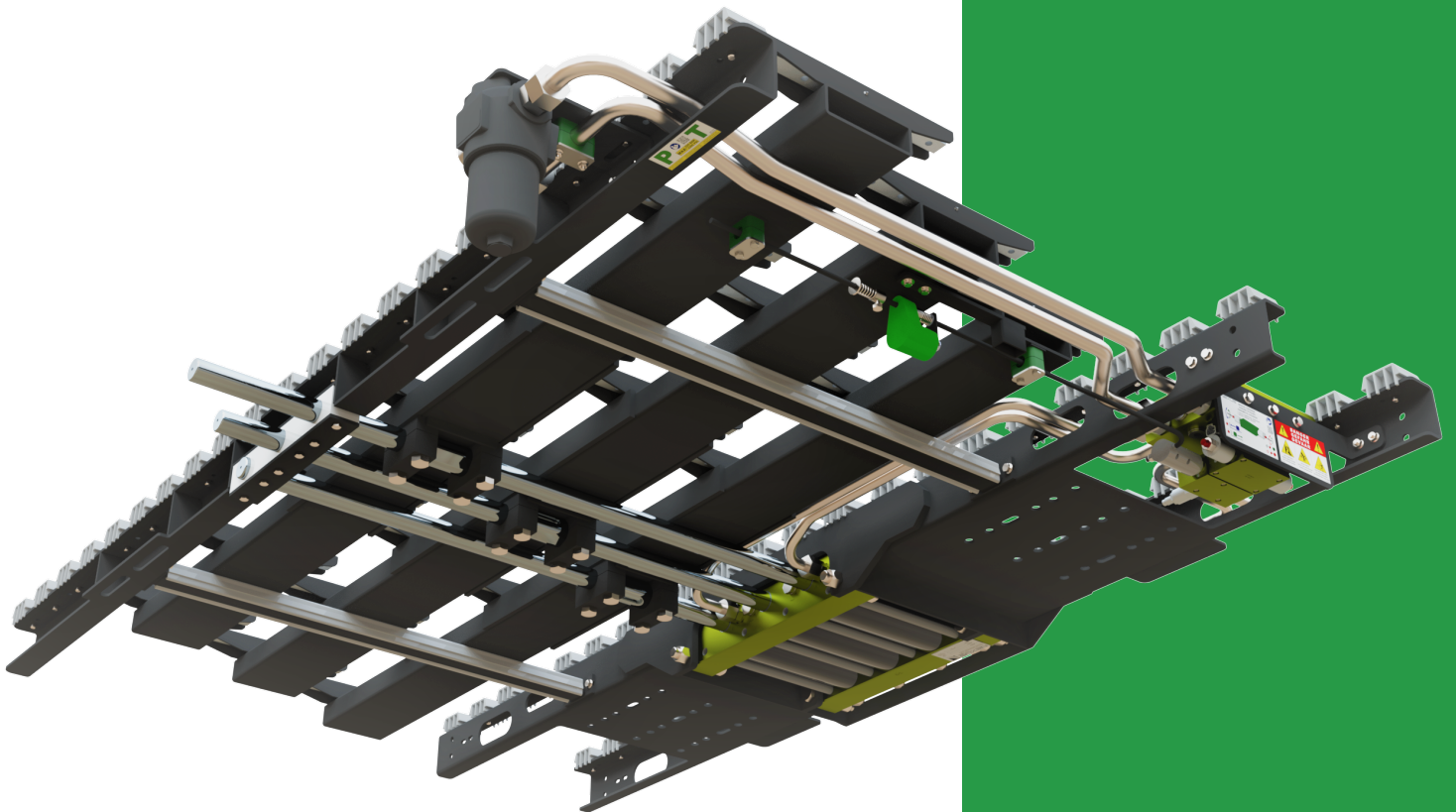


THE ORIGINAL LIVE FLOOR[®]

NEXUSTM
powered by **HALLCO**TM

HORIZONTAL
LOADING - UNLOADING
MOBILE SYSTEMS



ingenuity - innovation - excellence

The Original LIVE FLOOR®

Hallco, inventors of the reciprocating conveyor system, filing the first ever patent to sequence a group of at least three elongated slats arranged side by side to form a conveyor type truck bed.

Since this first development Hallco has continued to innovate in their field of expertise.

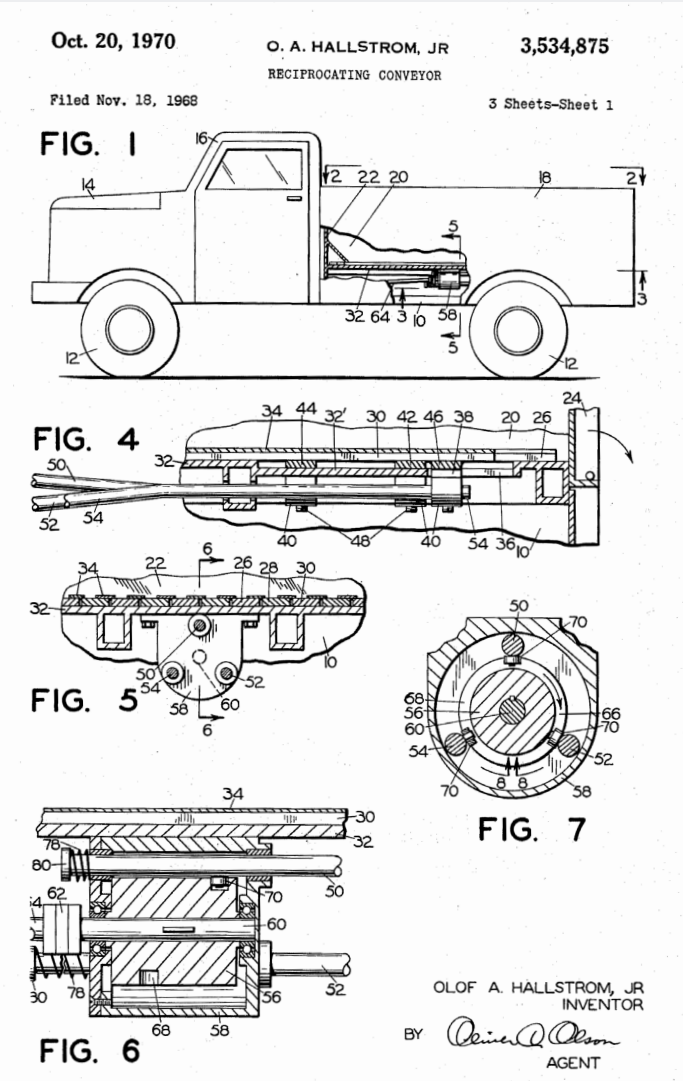
Systems covering load weights
6.5 t - 45 t.

Light weight goods system -
document shredding.

Front bulk head mounted drive
units - LEAK PROOF systems.

Patents for many designs
including first seal-less floor deck
planks - Top Seal.

ACCELERATOR 2-step & 3-step
operation at the touch of a
button.

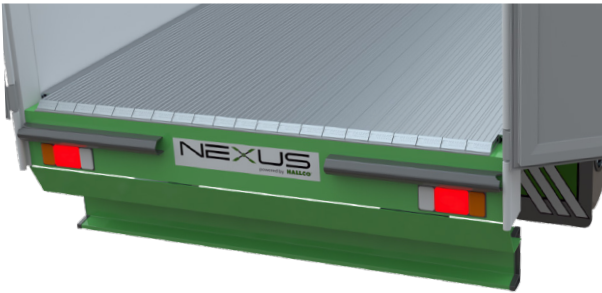


Hallco is the largest global LIVE FLOOR® manufacturer spread over 4 continents with 5 operating companies, 7 operational locations and 2 manufacturing facilities. Identifying operational challenges with our customers, and wanting to be more efficient and productive. Our DNA is to think, visualise and believe differently to create solutions that improve and optimise uptime, weight, reduced operating costs, improved operational performance and smarter user experience.

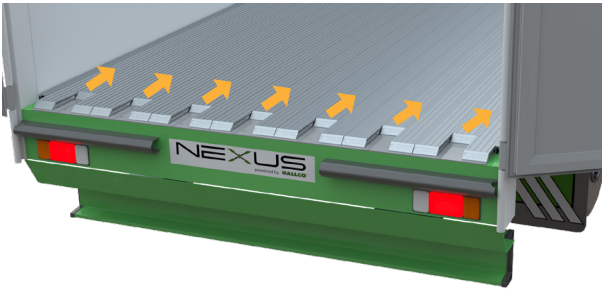
We use our heritage and DNA to transfer & move bulk smarter.

50+ Years of Ingenuity.

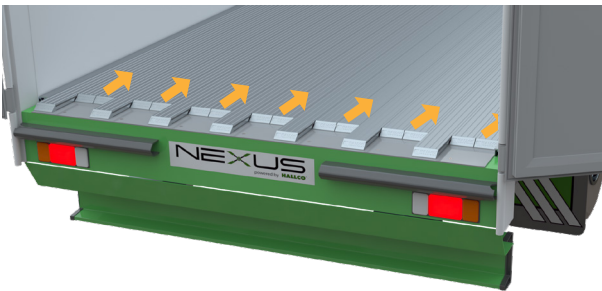
HALLCO LIVE FLOOR® movement



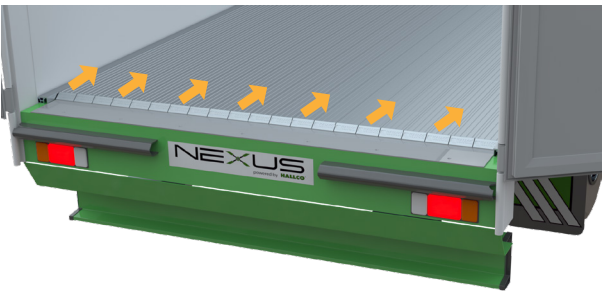
Floor Profiles
set to start
Load or Unload



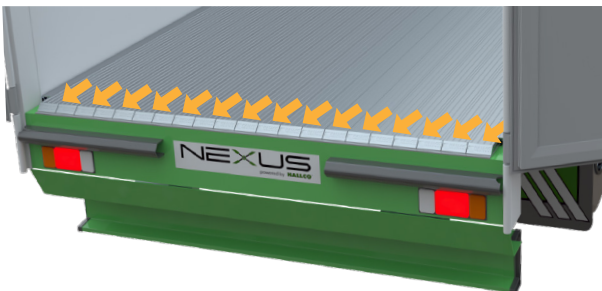
Group 1. (1/3)
Floor Profiles
Retract



Group 2. (2/3)
Floor Profiles
Retract



Group 3. (3/3)
Floor Profiles
Retract



Group 1+2+3
Floor Profiles
push out to
UNLOAD



LOAD

HALLCO LIVE FLOOR® is a reciprocating conveyor system, operating horizontally to load and unload; ideal for bulk materials loaded from the top into a vehicle body or stationary bin. Palletised or packed goods can load and unload through the rear opening.

UNLOAD

LIVE FLOOR® is not dependant on flat level grounds and can be used to load and unload on many types of terrain. Because it is horizontally loaded and unloaded there are no over head issues to be concerned with in mobile operations, often a concern with bulk tipping vehicles.

REPEAT



Action reversed to LOAD

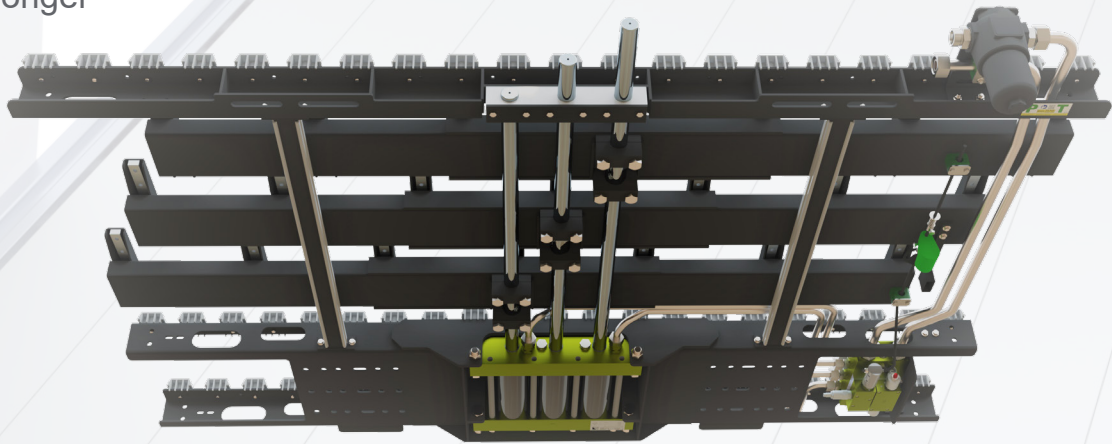
NEXUS Drive Unit

Hydraulic cylinder shafts High-Strength special steel-alloy, double chromated

- lighter
- stronger

HALLCO P-coat
surface protection coating for steel & aluminium

- strong no additional coating after installation needed

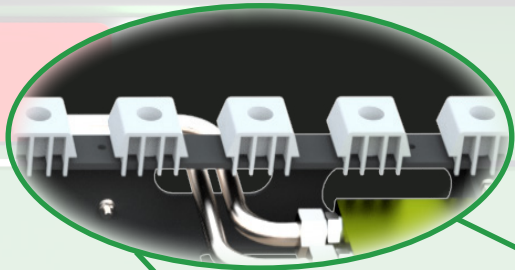


Common cylinder head & base manifolds

- simplified construction
- high flow

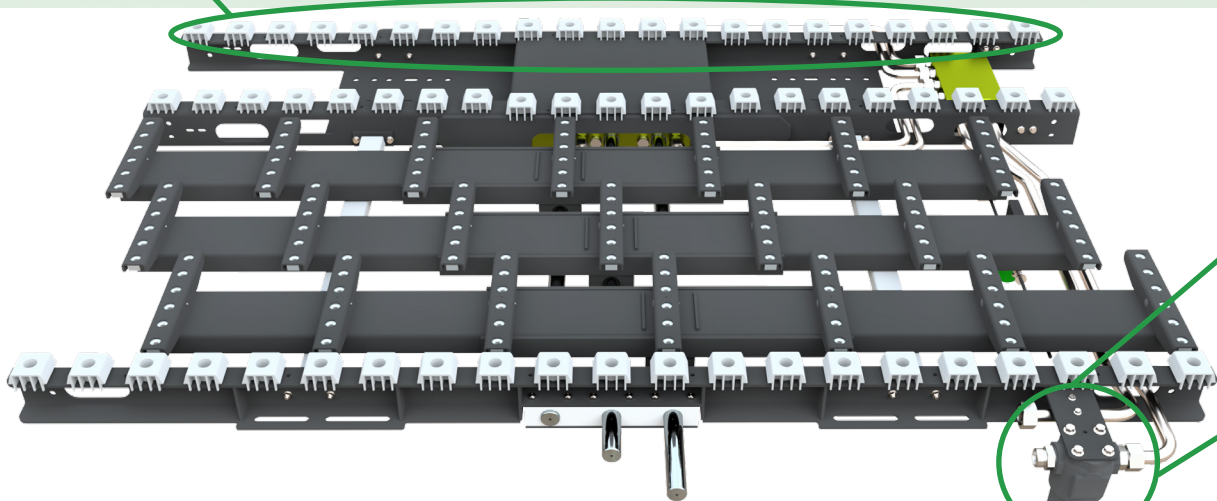
Steel tubing passivated with smooth radius bends

- less fluid turbulence
- reduced heat



Bearings 3rd row (optional)

- increased floor support over drive frame
- 1 less trailer crossmember



HALLCO hydraulics 50 year knowledge & experience of design, development and manufacture IN-HOUSE

- Proven
- Reliable
- Trusted

HDS - Control Valve conveniently positioned

- Easy side access.
- Safety - non operating with incorrect system connection/coupling.
- Increased flow.

OPERATIONAL functions

- HDS-Electric
- HDS-Hybrid
- HDS-Manual



Pressure filter standard fit

- system protection
- vertical for easier maintenance access
- easy hydraulic connection

NEXUS™ Technical data

365 kg	Weight (from)
E/H/M	Operating functions - HDS
100 mm	Cylinder bore
200 mm	Stroke
225 bar	Max. operating pressure
120 ltr	Max. operating flow
40T	Max. load capacity
5 min	Unload time 13.6 mtr theoretical
82 °C	Max. oil temperature

Further technical details available

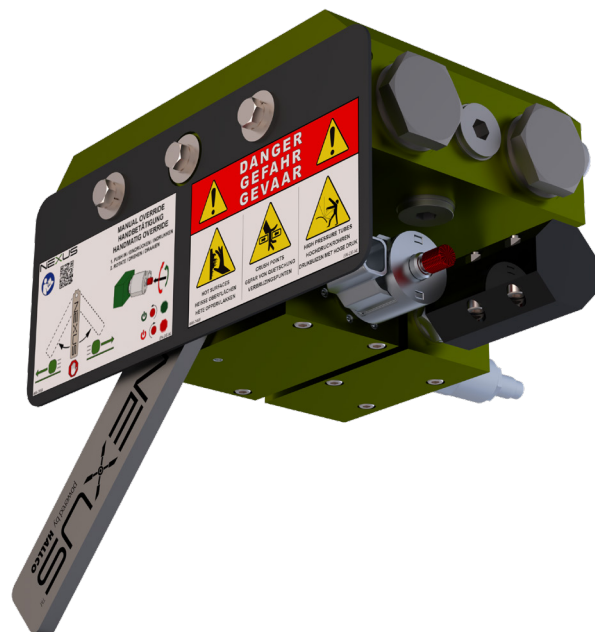
HDS - Control Valve

Modular components provide LIVE FLOOR® multi-functional options

HDS-E



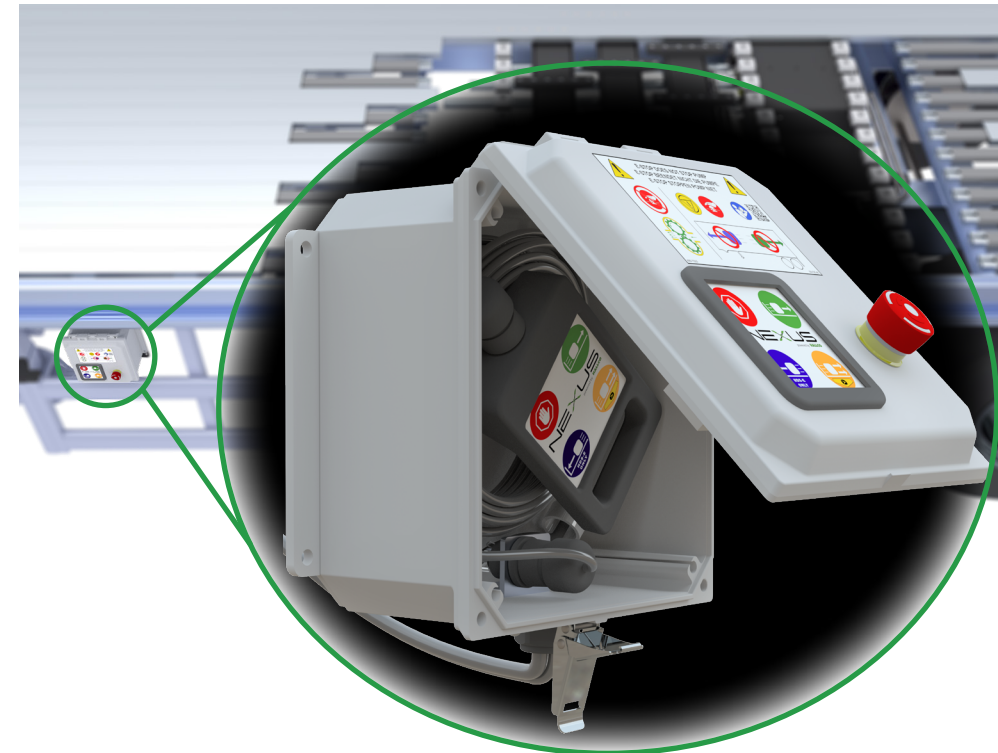
HDS-H



HDS-M



HALLCO Base Controller



Surface Mount Control

- direct access to function buttons
- easy system operation

User Operation Buttons

- visual identification
- safe knowledge of active operation
- synchronised

E-Stop Surface Mounted

- safety always accessible

Clear User Interface

- coloured function buttons
- infographic function

Great User Experience

- operate from one controller pick up directly from the other
 - base control
 - wired remote
 - wireless remote



STOP button
Lights up when system in stopped state



UNLOAD button
Lights when pressed
Other buttons go dark



LOAD button
Lights when pressed
Other buttons go dark



ACCELERATOR UNLOAD
Lights when pressed
Other buttons go dark

Remote

- wired
- wireless

Simple Retrofit

- add either controller

Storage Box

- secure storage for remote controllers
- IP rated



Simple retrofit for Electric, Hybrid or Manual function

ELECTRIC

Touch Panel user operation

- start / stop
- load & unload
- **ACCELERATOR** (option)

Manual override capability

- manual load & unload

Remote control options

- wired
- wireless

HYBRID

Touch Panel user operation

- start / stop
- **ACCELERATOR** (option)

Manual override capability

- manual load & unload

Remote control options

- wired
- wireless

MANUAL

Operation user logic

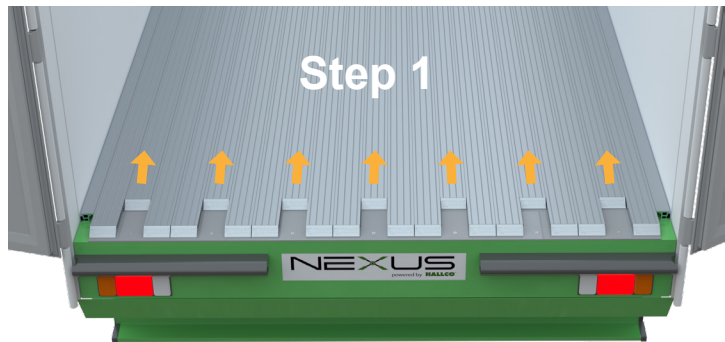
- handle directional operation logic
 - push rearwards to unload
 - push forwards to load
 - push centre to stop

Some loads only need the force of a 2-step cycle, ACCELERATOR switches your floor from a standard 3-step operation to a 2-step all within the same system.

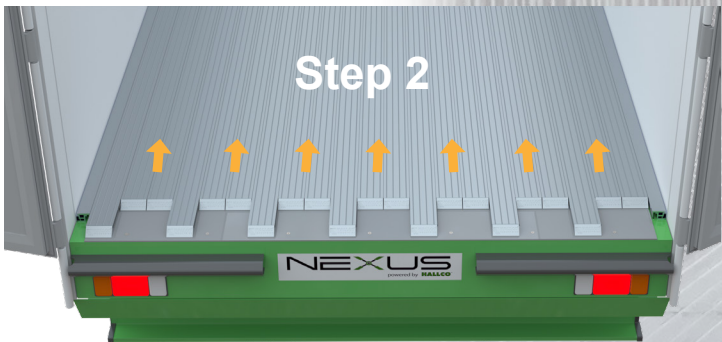
ACCELERATOR unload allows you to choose at the touch of a button.



30% faster unload* with



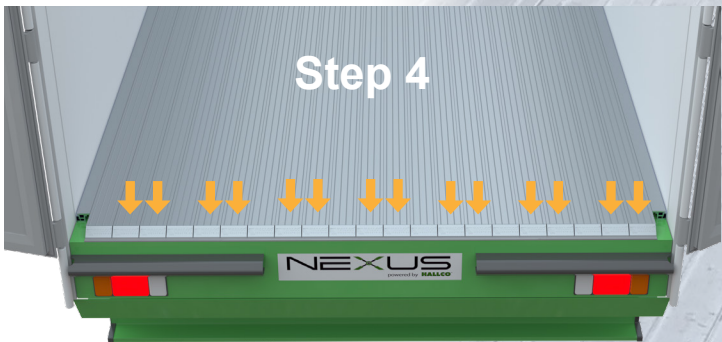
Step 1. (1/3)
Floor Profiles
Retract



Step 2. (2/3)
Floor Profiles
Retract



ACCELERATOR engaged
Step 3. (3/3)
Floor profiles
DO NOT retract



Step 1+2 (2/3)
Floor Profiles
push out
30% faster UNLOAD



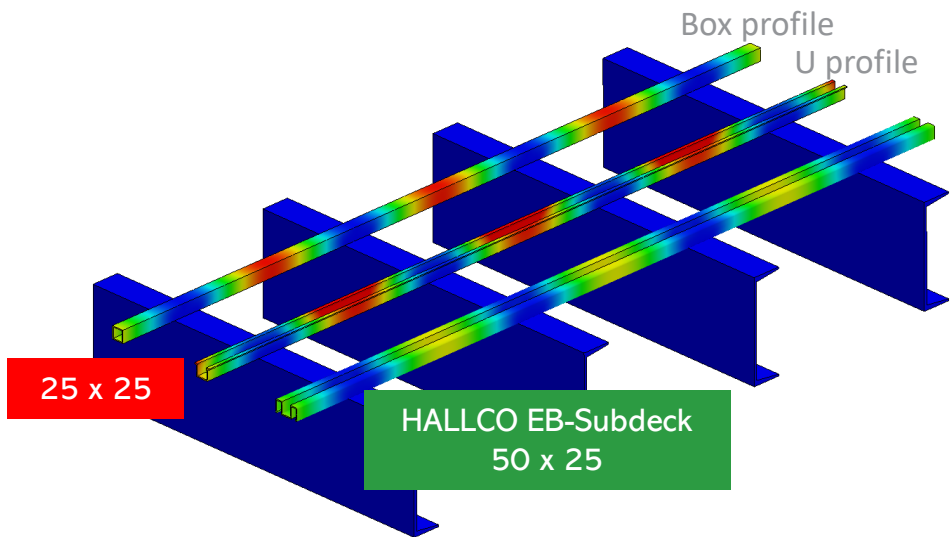
* 2-Step functions best with larger sized material, especially when they interlock together

Strong & Stable Base

EB Sub-Deck

Wider and stronger

- 100% wider sub-deck
- greater bearing & floor support at 50 mm wide
- 4 vertical supporting legs
- increased support between subframe
- positive influence on sub frame centres
- 25% stronger in vertical direction
- 200% increase of lateral twist - can help to support longitudinal twist of trailer chassis



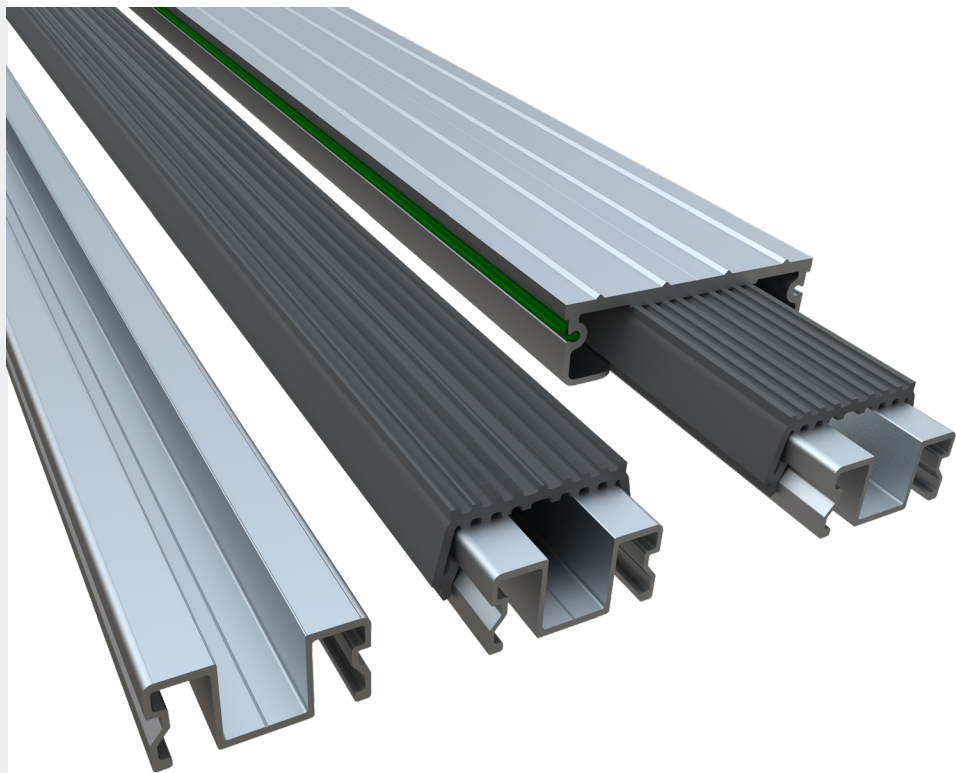
Universal bearing install

- Easy bearing
- FlicOn individual bearing

Continuous bearing length of sub deck

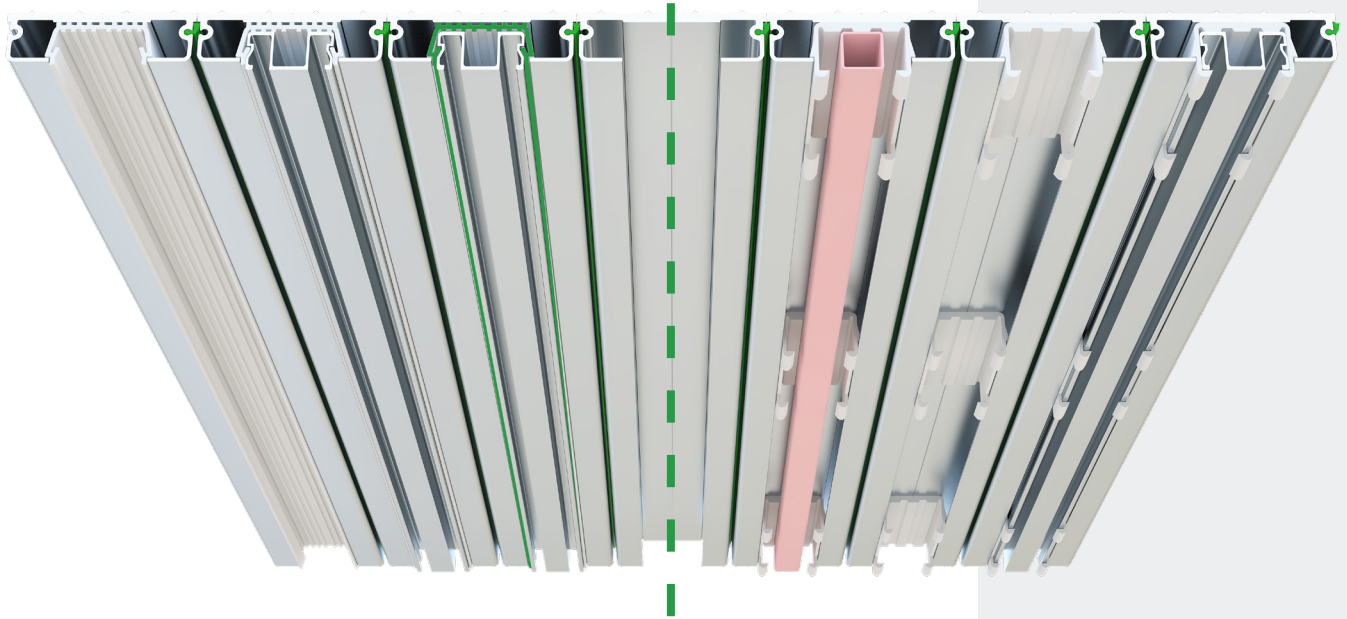
- supports floor full length of sub-deck
- over 50 mm wide for increased floor support
- reduces floor lift/twist
- easy install 42 bearing on a 21 slat system as opposed 800+ individual bearings

Easy Bearing



Longer life, smoother operation

Sub-Deck & Easy Bearing



Easy Bearing - continuous length of trailer sub-deck

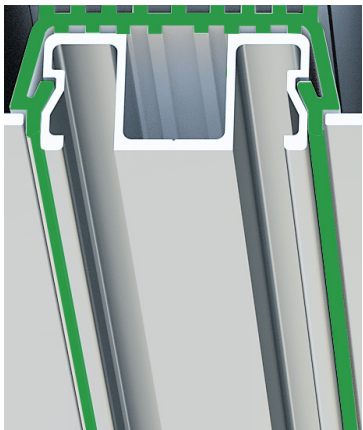
Maximum protection from above and below

Supported between cross members

- stops floor deflection from imposed load
- improved reciprocation during operation
- smoother operation
- more efficient
- reduced floor twist whilst unloading

Increased life expectancy

- underside of floor closed & sealed from road wash grit entry

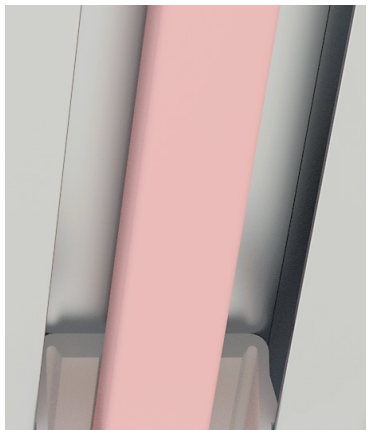


Easy Bearing

Enclosed full length of subdeck

Bearing seals underside of floor

No road wash spray & grit entry



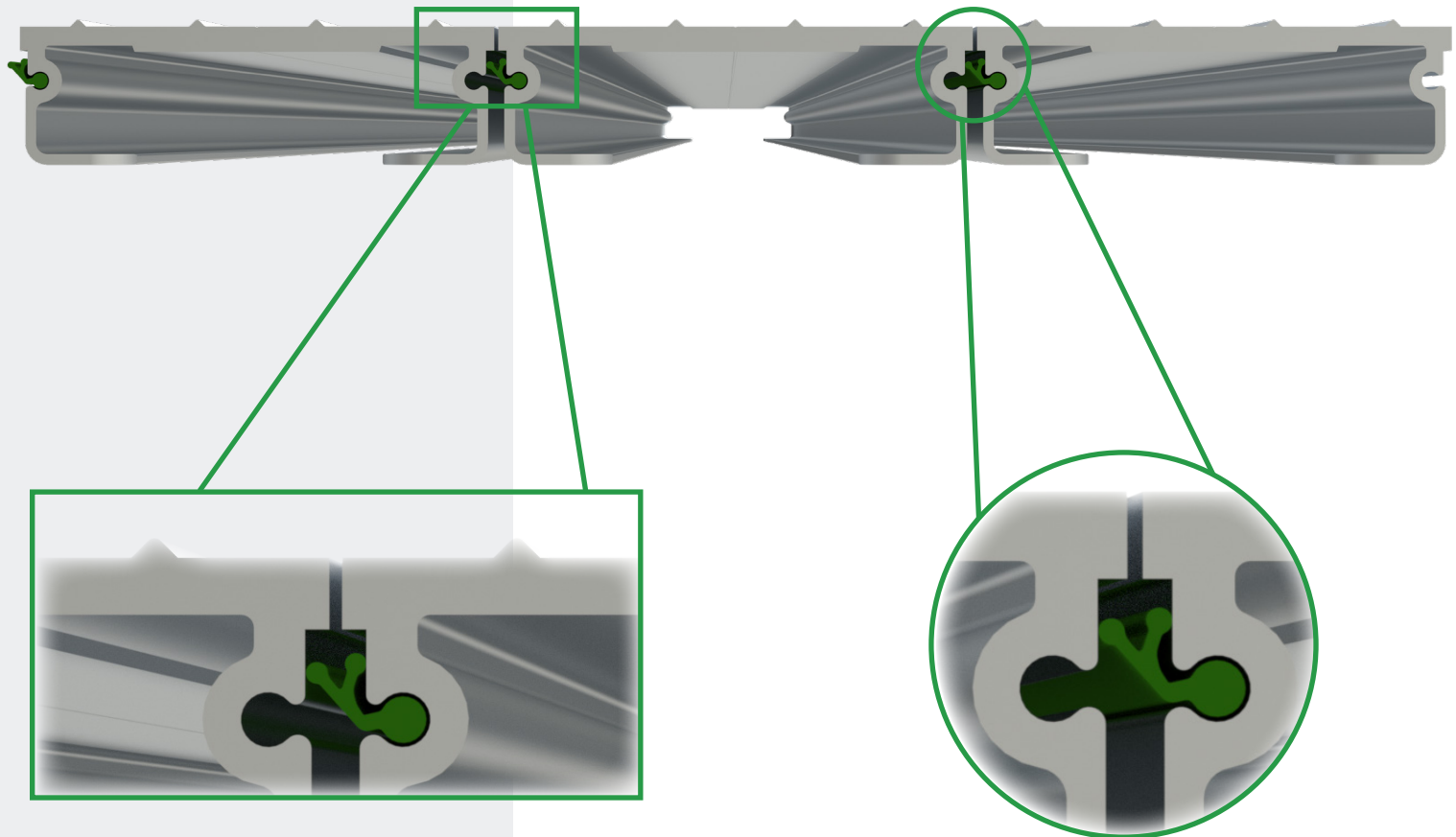
Individual Bearing

Open between chassis sub frame

Maximum entry point for road wash spray & grit

Premature bearing & under floor surface wear

Floor profile and seal perform together



Floor shoulders

Y-Seal

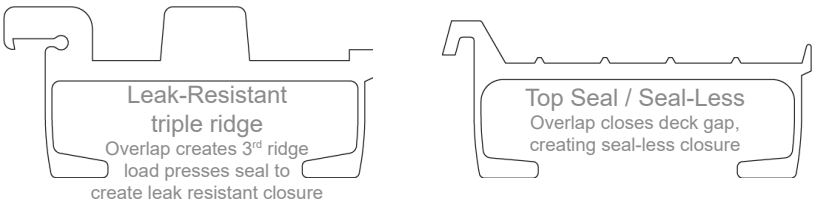
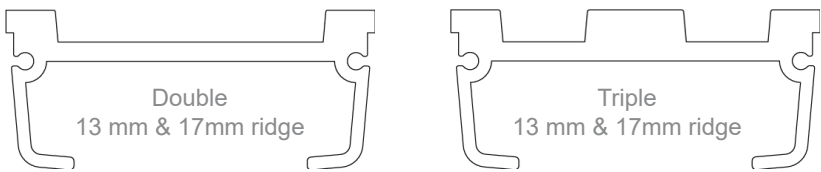
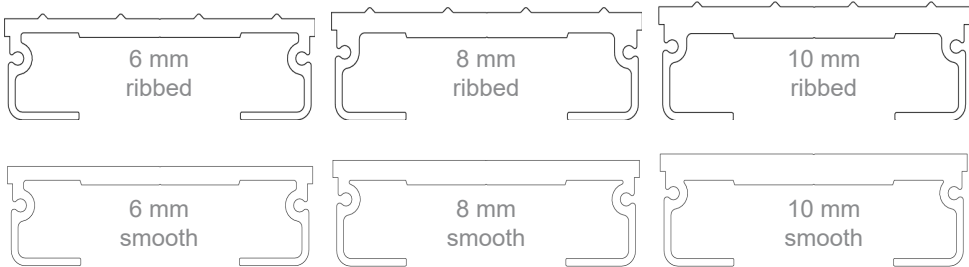
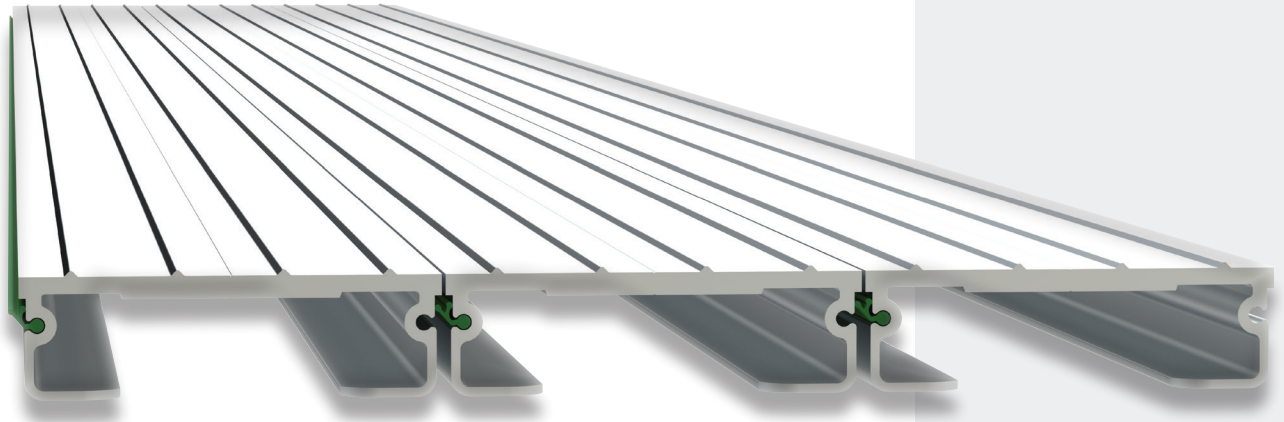
Extended floor shoulders

- eliminates seal being trapped
- no side load force on seal whilst floor reciprocates
- optimised space for effective seal location

Protected load

- Y shape seal efficiently closes space between floor planks
- stops load sifting through to the road
- reduce road wash into load from forced underside road spray

Deck planks, Trims and End Caps



Side Trims



Standard decks

- ribbed
- smooth

Special deck profiles

- double ridge
- triple ridge
- leak resistant
- Top Seal (seal-less)

Additional profiles available on request

End caps

- aluminium
- plastic

THE ORIGINAL LIVE FLOOR®

HORIZONTAL LOADING
UNLOADING SYSTEM



North America – South America – Europe – Australasia

Hallco Industries Limited

 Bramley House, Bramley Road, Long Eaton NG10 3SX, UK

 +44 (0) 115 772 2545  hello@hallco.eu  www.hallco.eu