EXPANSION- AND MOVEMENT JOINT PROFILES

APPLICATIONS:
- Thin-bed installation
- Thick-bed installation
- Buildings and heavy load applications
- Cover profiles
- Wall installations
- Subsequent installation

DURAFLEX
SLIMFLEX
DURAFLEX
DURAFLEX Metal
DURAFLEX PVC, TL
DURAFLEX SB, SL
DURAFLEX SG, SE
DURAFLEX KE, KF
DURAFLEX KA
DURAFLEX KB, KC
DURAFLEX SF
DURAFLEX

Mechanical stresses
High degrees of movement

The biggest danger for any surface is lack of flexibility. Changes in temperature, mechanical stresses and impacts can lead to uncontrolled movement in walls and floors resulting in cracks and deformation.

DURAL faces up to this problem with a wide assortment of movement joint profiles for a whole range of demands and special solutions for specific architectural situations.

SPECIAL SOLUTIONS

Building partition joints, perimeter joints and standard movement joints are indispensable in the planning and design of modern buildings.

The constant demand for new shapes, new materials and techniques demands less and less standardisation and more special solutions or extras.

DURAL’s standard range of movement joint profiles just form a basis for your building needs.
<table>
<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Material Profile / Infill</th>
<th>Application examples</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DURAFLEX Colour</strong></td>
<td>Thin-bed installation</td>
<td>Aluminium / Epoxy-Compound Stainless steel (304) / Epoxy-Compound</td>
<td>Salesrooms, storages and production facilities with average loads</td>
<td>4</td>
</tr>
<tr>
<td><strong>SLIMFLEX</strong></td>
<td>Bonding</td>
<td>Aluminium / M-Rubber</td>
<td>Living rooms with light loads</td>
<td>5</td>
</tr>
<tr>
<td><strong>DURAFLEX with narrow support bases</strong></td>
<td>Thin-bed installation</td>
<td>Hard PVC / Soft PVC</td>
<td>Living rooms and balconies with light and average loads</td>
<td>6</td>
</tr>
<tr>
<td><strong>DURAFLEX with wide support bases</strong></td>
<td>Thin-bed installation</td>
<td>Hard PVC / Soft PVC</td>
<td>Offices, storages and salesrooms</td>
<td>6</td>
</tr>
<tr>
<td><strong>DURAFLEX with extra-narrow visible width</strong></td>
<td>Thin-bed installation</td>
<td>Hard PVC / Soft PVC</td>
<td>Living rooms and balconies with light and average loads</td>
<td>6</td>
</tr>
<tr>
<td><strong>DURAFLEX Metal</strong></td>
<td>Thin-bed installation</td>
<td>Aluminium / EPDM Stainless steel (304) / EPDM Brass / EPDM</td>
<td>Storages and production facilities with high loads</td>
<td>7</td>
</tr>
<tr>
<td><strong>DURAFLEX PVC</strong></td>
<td>Thick-bed installation, Vibrating floors</td>
<td>Hard PVC / Soft PVC</td>
<td>Industrial projects with average loads</td>
<td>8</td>
</tr>
<tr>
<td><strong>DURAFLEX TL</strong></td>
<td>Thick-bed installation, Vibrating floors</td>
<td>Aluminium / EPDM Stainless steel (304) / EPDM Brass / EPDM</td>
<td>Salesrooms, storages or production facilities with high loads and special demands for chemical resistance</td>
<td>9</td>
</tr>
<tr>
<td><strong>DURAFLEX SB</strong></td>
<td>Buildings and heavy load applications</td>
<td>Aluminium / EPDM</td>
<td>Salesrooms and shopping centers with average loads</td>
<td>10</td>
</tr>
<tr>
<td><strong>DURAFLEX SC</strong></td>
<td>Buildings and heavy load applications</td>
<td>Aluminium / EPDM</td>
<td>Car dealer exhibitions and basement garages with high loads</td>
<td>10</td>
</tr>
<tr>
<td><strong>DURAFLEX SG</strong></td>
<td>Buildings and heavy load applications</td>
<td>Stainless steel (304) / EPDM</td>
<td>Hospitals and hospices with high loads and particularly high resistance against aggressive media</td>
<td>11</td>
</tr>
<tr>
<td><strong>DURAFLEX SE</strong></td>
<td>Buildings and heavy load applications</td>
<td>Aluminium</td>
<td>Logistic centres or big storage facilities with very high loads</td>
<td>11</td>
</tr>
<tr>
<td><strong>DURAFLEX KF</strong></td>
<td>Subsequent installation</td>
<td>Aluminium PVC</td>
<td>Covering of joints in walls and floors with low traffic loads</td>
<td>12</td>
</tr>
<tr>
<td><strong>DURAFLEX KE</strong></td>
<td>Subsequent installation</td>
<td>Aluminium Stainless steel (304)</td>
<td>Covering of joints in walls and floors with average traffic loads</td>
<td>12</td>
</tr>
<tr>
<td><strong>DURAFLEX KA</strong></td>
<td>Subsequent installation</td>
<td>Aluminium Stainless steel (304)</td>
<td>Covering of joints in hospitals and production facilities with special demands for design and hygiene</td>
<td>13</td>
</tr>
<tr>
<td><strong>DURAFLEX KB</strong></td>
<td>Wall installations</td>
<td>Aluminium / Soft PVC</td>
<td>Large offices, foyers, halls, stadiums and stairways</td>
<td>14</td>
</tr>
<tr>
<td><strong>DURAFLEX KC</strong></td>
<td>Wall installations</td>
<td>Galvanised steel / Nitrile rubber</td>
<td>Large offices, foyers, halls, stadiums and stairways with higher loads</td>
<td>14</td>
</tr>
<tr>
<td><strong>DURAFLEX SF</strong></td>
<td>Subsequent installation</td>
<td>Aluminium / Nitrile rubber</td>
<td>Restoration and renovation of all office areas with larger joints</td>
<td>15</td>
</tr>
</tbody>
</table>
DURAFLEX Colour

Decide for yourself which colour you would like for your expansion joint. Irrespective of whether it matches the flooring, the tiled surface, the joint colour or any (almost any!) RAL colour – the choice is up to you. And if you like, you can even match the colour of the carrier profile according to your wishes. In the powder-coated aluminium version, almost every single RAL colour is available. Even curves are not a problem thanks to the flexible Z-Flex carrier profiles. Thus DURAFLEX Colour profiles satisfy the most stringent technical requirements. The carrier profiles in aluminium or stainless steel offer a secure hold in the subsurface.

### DURAFLEX Colour

<table>
<thead>
<tr>
<th>Material:</th>
<th>Aluminium, Stainless steel (304)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length:</td>
<td>250 cm</td>
</tr>
<tr>
<td>Width:</td>
<td>12 mm</td>
</tr>
<tr>
<td>Height:</td>
<td>6 – 15 mm (More heights on request)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Infill:</th>
<th>Epoxy-Compound</th>
</tr>
</thead>
</table>
| Joint width:       | Aluminium: 6 mm
|                    | Stainless steel: 7 mm            |

### Infill colour selection

**Flooring surface**

The profile Infill to match the colour of the laid flooring surface.

**Joint mortar**

The profile Infill to match the colour of the applied joint mortar.

### RAL colours

The profile* colour and profile Infill colour according to RAL colours

* in aluminium only

### Profile selection

**Material**

- Aluminium
- Aluminium powder coated
- Aluminium Z-Flex
- Stainless steel (304)

The Infill, made of a high quality epoxy compound, is able to absorb up to +/- 2.1 mm of movement. Areas in which DURAFLEX Colour profiles have been installed can be accessed by HGVs and forklifts.
SLIMFLEX

SLIMFLEX is an extremely narrow and elegant expansion joint profile for light stresses in indoor areas. Despite the low visible width of only 4 mm, the special construction of an aluminium carrier profile and the highly elastic infill in M-rubber facilitate a movement absorption of 2 mm (+/- 1 mm).

- Ideal for use with LVT flooring surfaces

Material: Aluminium
Infill: M-Rubber black
Length: 250 cm
Width: 4 mm
Height: 2 – 12.5 mm
Movement absorption: 2 mm (+/- 1 mm)
DURAFLEX with narrow, unpunched bases
in coextruded hard and soft PVC with narrow, unpunched support bases for use in areas subject to moderate stresses and in the outdoor area.
- Living areas
- Balconies
- Outdoor areas

**DURAFLEX with narrow, unpunched bases**
Material: Hard and soft PVC
Infill: EPDM grey
Width: 8 mm
Height: 6 – 15 mm
Length: 250 cm

DURAFLEX with large, punched bases
in coextruded hard and soft PVC with large, punched support bases for extra-stable fixing below the tiled surface for areas subject to moderate foot traffic.
- Offices
- Storage rooms
- Sales rooms

**DURAFLEX with large, punched bases**
Material: Hard and soft PVC
Infill: EPDM white, beige, black, grey, dark grey
Width: 8 mm
Height: 6 – 15 mm
Length: 250 cm

DURAFLEX with extra-narrow surface
in coextruded hard and soft PVC with an extra-narrow surface for areas subject to minor stresses, even outdoors. The design-based predetermined breaking point also facilitates its use as a connection profile.
- Living areas
- Offices and exhibition spaces
- Balconies

**DURAFLEX with extra-narrow surface**
Material: Hard and soft PVC
Colour: grey, dark grey
Width: 5 mm
Height: 6 – 12.5 mm
Length: 250 cm

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6

**Base with predetermined breaking point**
DURAFLEX Metal

DURAFLEX metal profiles with an EPDM expansion zone are made for particularly highly stressed floors. The specially developed expansion joint profile absorbs heavy stresses and spreads them evenly throughout the flooring and the foundations. It also prevents transmission of footfall and sounds from other objects.

- Large domestic spaces
- Warehouses and production facilities
- Underground garages
- Shopping centres
- Domestic rooms

DURAFLEX Metal Aluminium
Material: Aluminium
Infill: EPDM grey
Width: 10 – 20 mm
Height: 2 – 30 mm
Length: 250 cm

DURAFLEX Metal Stainless steel
Material: Stainless steel (304)
Infill: EPDM grey
Width: 8 mm
Height: 2 – 30 mm
Length: 250 cm

DURAFLEX Metal Wall connection
Material: Aluminium, Stainless steel (304)
Infill: EPDM grey
Aluminium, Width: 8 mm
Stainless steel, Width: 7 mm
Height: 8 – 15 mm
Length: 250 cm

DURAFLEX Metal Brass
Material: Brass
Infill: EPDM grey
Width: 10 mm
Height: 3 – 30 mm
Length: 250 cm

BUILDING DESCRIPTION:
Production facility with adjoining domestic dwelling
450 m² of production space, 155 m² of dwelling
Floor: fully laid with tiles and natural stone, linoleum in offices.
DURAFLEX with narrow support bases in dwelling and offices, laid in doorways and on the patio. DURAFLEX Brass and Stainless Steel divide the tiled floor of the production facility into 70 m² areas.
DURAFLEX PVC

DURAFLEX coextruded expansion joint profiles with an 8 mm visible width are ideal for the reduction of tensile and compressive stresses in ceramic flooring surfaces which are laid using the thick bed or vibrating floor procedure. The soft PVC inner core absorbs any deformations which occur, whilst the outer coating in hard PVC guarantees efficient edge protection.

- For use in industrial projects

**DURAFLEX PVC**

- Material: PVC
- Colours: white, beige, black, grey, grey-transparent, terracotta
- Height: 30 – 65 mm
- Width: 8 mm
- Length: 250 cm
BUILDING DESCRIPTION:

Furniture store with warehouse; 1,250 m² of sales floor, 1,750 m² of warehousing.

Floor: polished granite sales floor and painted concrete flooring in the warehouse, all extensively used and subject to heavy loads. **DURAFLEX TL** on the sales floor and in the warehouse dividing the floor into areas of 100 m². Profiles providing enhanced edge protection are also slightly curved in the vicinity of the counter.

**DURAFLEX TL**

The DURAFLEX TL expansion joint profiles with a 10 mm visible width are ideal for use with flooring surfaces which are laid using the thick bed or vibrating floor procedure and where there are special requirements in terms of edge protection, movement absorption and resistance to external influences, acids, alkalis or weathering. The profile lateral sections are available in a choice of aluminium, V2A stainless steel or brass, which are vulcanised with the flexible EPDM expansion layer, producing an extremely stable connection.

The profiles can be installed with or without screed anchors depending on the application area.

- Surfaces with various flooring and degrees of loading leading to greater need for edge protection
- Sales floors
- Production spaces
- Warehouses

**DURAFLEX TL**

Material: Aluminium, Stainless steel (304), Brass
Infill: EPDM beige, black, grey
Width: 10 mm
Height: 20 – 50 mm
Length: 250 cm

**DURAFLEX TL Anchor**

Iron
If required 10 pcs. per lm
DURAFLEX SB und SC

DURAFLEX expansion joint profiles in the SB and SC series have been designed for use in heavily frequented areas subject to high stresses. The visible surface of the profile is 37 mm in the standard version and 45 mm in the reinforced version. The lateral aluminium profiles are combined with an Infill made of thermoplastic elastomer (EPDM) for high horizontal and vertical high movement absorption. The inlays are easily interchangeable as required. A wall / floor connection profile is available for serie SB.

- Shopping centres
- Sales floors in car showrooms etc.
- Underground garages

DURAFLEX SC

Material: Aluminium
Infill: EPDM black, grey
Width: 45 mm
Height: 35 – 90 mm
Length: 300 cm

DURAFLEX SB

Material: Aluminium
Infill: EPDM black, grey
Width: 37 mm
Height: 15 – 50 mm
Length: 250 cm

DURAFLEX SE along the large building partition joints and dividing the surface of the car park. At certain critical points heavy loading profiles are enhanced with an extra segment to cover the largest joints.

BUILDING DESCRIPTION:

Newly built shopping centre with car park
1,400 m² of shopping space and 700 m² space for cars
Floor: granite floor with carpets throughout the shopping space and screed in the car park.

DURAFLEX SE
DURAFLEX SG

DURAFLEX expansion joint profiles in the SG series are ideal for use under extremely high stresses and for high resistance requirements to aggressive media in highly frequented areas, despite their low visible width of only 30 mm. The lateral profiles in V2A stainless steel are combined with a EPDM infill for high movement absorption. The inlays are easily interchangeable as required.

- Hospitals
- Nursing homes
- Production facilities

**DURAFLEX SG**

- Material: Stainless steel (304)
- Infill: EPDM
- Width: 30 mm
- Height: 35, 50 mm
- Length: 300 cm

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DURAFLEX SE

DURAFLEX expansion joint profiles in the SE series in solid aluminium with a ridged, anti-slip surface and a 70 mm visible width have been developed for use in areas where extremely high stresses occur with simultaneously high horizontal and vertical movement absorption.

- Logistics centres
- Warehouses or production facilities, e.g. aircraft or ship builders

**DURAFLEX SE**

- Material: Aluminium natural
- Width: 70 mm
- Height: 43 – 88 mm
- Length: 400 cm

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BUILDING DESCRIPTION:

Car showroom with offices and repair workshop
Showroom 1,240 m², repair workshop 360 m²
Floor: fine stone tiles in showroom and non-slip stone ceramic tiles in workshop

DURAFLEX SB profiles divide the tiled surface in the showroom, being used for both movement joints and area perimeters. In the workshop, DURAFLEX SG profiles are used due to their greater resistance to chemicals.
DURAFLEX KE und KF

DURAFLEX cover profiles in the KE and KF series are aluminium cover profiles with a reinforced construction for the subsequent installation of wall and floor joints. Fixing clips in V2A stainless steel ensure a secure hold in the joint. In series KF, a corner variant is possible using a matching shaped piece.

- All wall and floor surfaces with low traffic

DURAFLEX KE
Material: Aluminium heavy duty
Width: 60, 70 mm
Length: 300 cm

DURAFLEX KF
Material: Aluminium
- Low stress: Width: 50 – 140 mm
- Medium stress: Width: 50 – 90 mm
Material: PVC
- Low stress: White, beige, grey
- Medium stress: White, beige, grey
Width: 50, 70 mm
Length: 300 cm

DURAFLEX KF Corner design
Material: Aluminium
- Low stress: Silver anodised
- Medium stress: Silver anodised
Width: 50 – 90 mm
Material: PVC
- Low stress: White, beige, grey
- Medium stress: White, beige, grey
Width: 50, 70 mm
Length: 300 cm

DURAFLEX Fixing Clip Type A
Material: Stainless steel (304)
Height: 40 mm
min./max. Joint width: 15 / 30 mm

DURAFLEX Fixing Clip Typ B
Material: Stainless steel (304)
Height: 60 mm
min./max. Joint width: 20 / 45 mm

DURAFLEX KE und KF

Cover profiles for wall and floor for Expansion- and movement joint profiles
DURAFLEX KA
DURAFLEX KA profiles are cover profiles available in aluminium or V2A stainless steel for the bridging of wide joints and are suitable for subsequent installation. The profiles are secured on one side using screws, or as an adhesive version on both sides to the flooring surface.

- Hospitals
- Production facilities requiring quality design and hygiene

**DURAFLEX KA, undrilled**

- Self-adhesive
- Material: Aluminium natural, silver anodised
- Width x Thickness:
  - 60 x 3.5 mm, 80 x 3.5 mm
  - 100 x 4.0 mm, 120 x 4.0 mm
- Length: 250 cm

**DURAFLEX KA, drilled**

- Material: Aluminium natural, silver anodised
- Width x Thickness:
  - 60 x 3.5 mm, 80 x 3.5 mm
  - 100 x 4.0 mm, 120 x 4.0 mm
- Length: 250 cm

**DURAFLEX KA, drilled**

- Material: Stainless steel brushed (240K)
- Width x Thickness:
  - 60 x 3.0 mm,
  - 80 x 3.0 mm,
  - 100 x 3.0 mm
- Length: 250 cm

**BUILDING DESCRIPTION:**

An extension wing is to be built from scratch in conjunction with the partial renovation of a hospital. Floor: tiles and linoleum in both new and old parts of the building. DURAFLEX KE throughout the corridors to cover existing building partition joints and at the edges of sterile rooms (operating theatres etc.). DURAFLEX KA in the foyer and ambulance entrance where traffic is heavy.
DURAFLEX KB und KC

DURAFLEX expansion joint profiles in the KB and KC series have been developed for use in walls to bridge wide joints (up to max. 50 mm).

The carrier profiles in aluminium or galvanised steel are fitted with an inlay in soft PVC or nitrile rubber to absorb movement. Corner connection profiles complete the range.

- Large open plan offices of modular design
- Exhibition halls
- Foyers
- Stairways
- Halls and stadiums
- Hospitals

DURAFLEX KB
Material: Aluminium
Infill: Soft PVC black
Joint width: 30, 50 mm
Width: 34 / 60 mm
Height: 17 mm
Length: 400 cm

DURAFLEX KC
Material: Galvanised steel
Infill: Nitrile rubber black
Joint width: 30, 50 mm
Height: 11 – 20 mm
Width: 37 / 67 mm
Length: 300 cm

DURAFLEX KB Corner design
Material: Aluminium
Infill: Soft PVC black
Joint width: 30, 50 mm
Width: 15 / 48 mm
Height: 17 mm
Length: 400 cm

DURAFLEX KC Corner design
Material: Galvanised steel
Infill: Nitrile rubber black
Joint width: 30, 50 mm
Width: 37 / 67 mm
Height: 11 – 20 mm
Length: 300 cm

BUILDING DESCRIPTION:
Rebuilding of an office block with 127 offices with a total floor space of 8,500 m²
Walls: Concrete and light post and beam construction with plasterboard planking, plastered ceiling and wall tiles. DURAFLEX KC along the building partition joints and splitting up wall surfaces in the vicinity of the foyer and lift, which are slightly critical from an engineering point of view. All tiled surface are edged with the corner installation version of DURAFLEX KB.
DURAFLEX SF

DURAFLEX expansion joint profiles in the SF series have been specially developed as renovation profiles for use in highly-frequented areas which need to be bridged due to heavy edge damage. An elastic joint inlay made of nitrile rubber absorbs horizontal and vertical movements and reduces the transmission of footfall noise. The surface finish of the aluminium lateral sections is ridged to prevent slipping and a wall/floor connection is possible using a matching shaped piece.

- Restorations and renovation of all floor surfaces with large partition or area dividing joints

DURAFLEX SF

Material: Aluminium
Infill: Nitrile rubber
Joint width: 30, 50 mm
Width: 150, 175 mm
Length: 400 cm

DURAFLEX SF

Corner design
Material: Aluminium
Infill: Nitrile rubber
Joint width: 30, 50 mm
Width: 90, 115 mm
Length: 400 cm

BUILDING DESCRIPTION:

A production space is to be renovated and expanded from 1,950 m² to 3,500 m². Floor: screed with mediumsized cracks along the building partition joints in the existing area, with screed and ceramic tiles in the new section. DURAFLEX SF on the old surface to cover over the partition and area perimeter joints. DURAFLEX TL in the new area to provide protection for the production surfaces.
DURAL is a comprehensive provider of profiles, floor-level shower systems, and matting systems for walls and floors.

- Stair noising profiles
- Tile profiles
- Floor level shower systems
- LED profiles and accessories
- Skirting profiles
- Balcony angle profiles
- Tactile orientation aids
- Doormat systems
- Profiles for parquet, laminate, carpet and design flooring profiles
- Expansion joint- and movement joint profiles
- Matting system for waterproofing and decoupling
- Drainage channel systems

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