

## Ductwork Components

# VerroFlange Ductwork Jointing System

## Slide on Flange Details & Specifications

- Provides for rapid assembly of cross joints.
- Permanently flexible non-toxic sealant injected into the profile during manufacture.
- Available in standard metric sizes of 20mm, 30mm and 40mm.
- Fully conforms to UK, HVCA specification DW144.
- Awarded Quality Assurance Certification BS EN ISO 9001.
- Full accessory range to suit all sizes of flange, choice of material types and gauges.
- Tested and certified by BSRIA in accordance with the B&ES (formally HVCA) test procedures DW/TM1.
- Suitable for B&ES specification DW/144 for Joint Ratings up to J6 and pressure classes A, B, C and D.



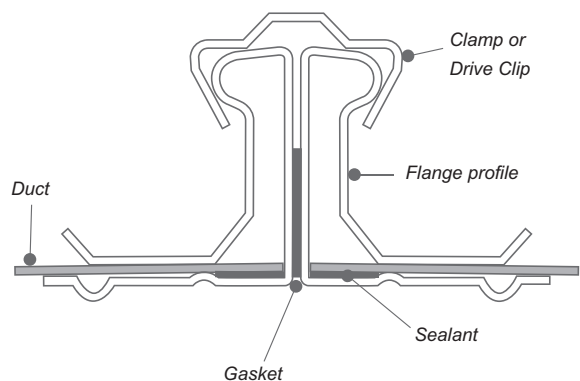
## Design Specification

During the manufacturing process the sealant pocket is rolled into the profile and airtightness is ensured by the inclusion of a non-toxic sealant.

All rectangular ductwork cross joints shall be the VerroFlange slide on flange type complete with integral permanently flexible non-toxic sealant, consisting of a Galvanised MS Profile and EZP Corner Pieces. The appropriate size of flange shall be fitted to the ductwork as covered by the construction tables 2 to 4 of specification DW144. Shall be independently tested to the procedures of BSRIA in accordance with HVCA specification DW/TM1 and as manufactured by Doby Verrolec. The flanges shall be fitted to

the ductwork and assembled on site where appropriate with the correct gasket, all to the manufacturers instructions.

## VerroFlange Profile - Cross Section



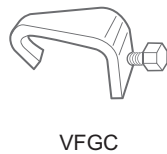
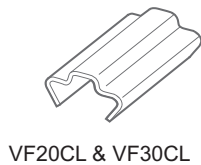
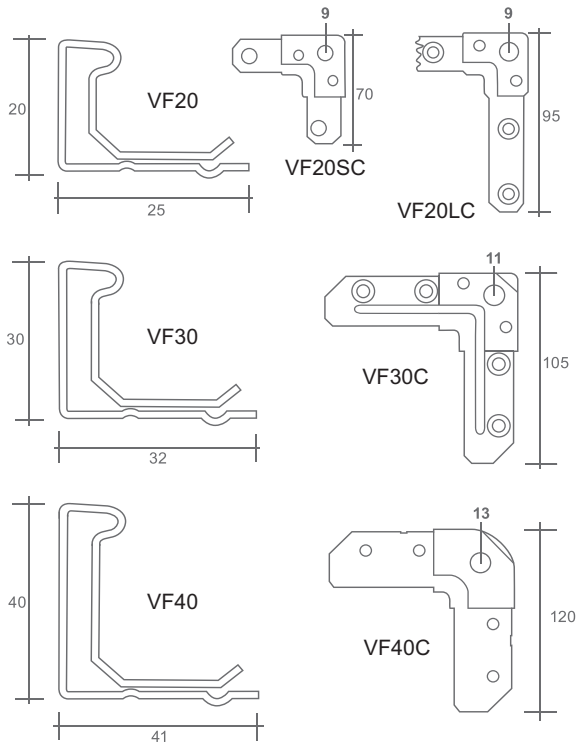
### DW/TM1 Test Results

| Profile             | Joint Rating | Pressure Class |   |   |   |
|---------------------|--------------|----------------|---|---|---|
|                     |              | A              | B | C | D |
| VF20                | J2           | ✓              | ✓ | ✓ | ✓ |
| VF30                | J3           | ✓              | ✓ | ✓ | ✓ |
| VF30                | J4           | ✓              | ✓ | ✓ | ✓ |
| VF40                | J5           | ✓              | ✓ | ✓ | ✓ |
| VF40 <sup>(1)</sup> | J6           | ✓              | ✓ | ✓ | ✓ |

(1) When used with a Central Tie Bar.  
As tested by BSRIA in accordance with HVCA specification DW/TM1 test procedures.



## Product Details & Specifications



### Flange Profiles

|      | gauge(mm) | weight(kg) |
|------|-----------|------------|
| VF20 | 0.8       | 0.52/m     |
| VF30 | 1.0       | 0.86/m     |
| VF40 | 1.25      | 1.38/m     |

British Standard steel grade and coating specification  
BS EN 10346:2015 DX51D +Z275 MAC.  
Integral sealant, Evode Glasticon 126 solvent free  
permanently non-setting mastic.

### Corner Pieces

|        | gauge(mm) | weight(kg) |
|--------|-----------|------------|
| VF20SC | 2.5       | 9.5/250    |
| VF20LC | 2.5       | 14.0/250   |
| VF30C  | 3.0       | 15.0/125   |
| VF40C  | 5.0       | 13.7/50    |

Hot rolled steel to BS EN 10111:1998.  
Steel grade EN 10111 - DD11 Pickled & Oiled finish -  
Zinc and clear passivate to BS EN 12329 - Fe/Zn5/A

### Clips & Clamp

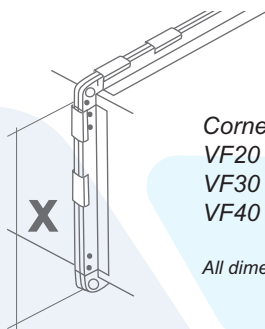
|        | gauge(mm) | weight(kg) |
|--------|-----------|------------|
| VF20CL | 1.2       | 6.6/200    |
| VF30CL | 1.2       | 7.4/200    |
| VFGC   | 3.0       | 5.4/100    |

Coating specifications as per Flange Profiles above  
(minus sealant details).  
VerroFlange profiles are also available in different  
materials, (Aluminium, or Stainless Steel).

## Ductseal Gasket

A cross linked Medium Density P.V.C. closed cell foam combined with a high grab sensitive adhesive to give good all round sealing properties. Temperature range -40°C to +70°C. We recommend the use of the appropriate gasket to ensure performance in accordance with our DW/TM1 test results, where application allows. Supplied in green for easy identification.

## Corner Hole Centering



### Corner Holes Centres (X)

|      |                      |
|------|----------------------|
| VF20 | Ductsize plus 20 nom |
| VF30 | Ductsize plus 32 nom |
| VF40 | Ductsize plus 30 nom |

All dimensions are in millimetres

## Packing details

### Profiles

Bundles of 250m and 75m, 5000mm standard length, 3000mm to order.

### Corner Pieces

|                        |                       |
|------------------------|-----------------------|
| VF20SC in boxes of 250 | VF30C in boxes of 125 |
| VF20LC in boxes of 250 | VF40C in boxes of 50  |

### Clips

|                                 |
|---------------------------------|
| VF20CL & VF30CL in boxes of 200 |
| DS033 in boxes of 200           |

### Clamp

|                      |
|----------------------|
| VFGC in boxes of 100 |
|----------------------|

### Gasket

|                                    |
|------------------------------------|
| 570 in cartons of 825m (55 rolls)  |
| 571 in cartons of 600m (40 rolls)  |
| 572 in cartons of 480m (32 rolls)  |
| 572A in cartons of 300m (20 rolls) |

### Corner Nuts and Set Screws

|                               |
|-------------------------------|
| DS160 - DS163 in boxes of 250 |
|-------------------------------|