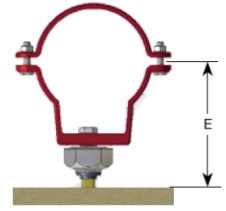


EF048AD – Ductile Iron Bracket with Acoustic Dampener



Product code	Dia	E	WTKG
199881	50	112	0.5
199882	70	122	0.6
199883	100	138	0.7
199884	150	163	1.0


General Description

Ductile Iron Two Piece Hanging Bracket – With Acoustic Dampener

Technical Specification

Prod code:	See Table
Standard:	BS EN 877: 1999/AC: 2008
Bracket	
Material:	Ductile Iron – (Grade 420) BS EN 877
Coating:	Red Epoxy to an average thickness of 70microns
Bolts:	2 x Zinc & Clear Mild Steel Hex Head Bolts (M8)
Nuts:	2 x Zinc & Clear Mild Steel Hex Head Nuts (M8)
Acoustic Dampener	
Nut:	M8-M10 0 Galvanised-bichromated steel
Tapped Base:	M8-M10 0 Galvanised-bichromated steel
Dampener:	Elastomer EPDM
Retainer Cup:	AISI 304 Stainless Steel
Small Dish:	AISI 304 Stainless Steel
Full Product	
Component Fire Rating:	A1
System Fire Rating:	A1
Water Temperature Rating:	95° +/- 2° (Resistance to Hot Water in 24hr cycle constant)
Recommended Threaded	
Rod sizes:	M10

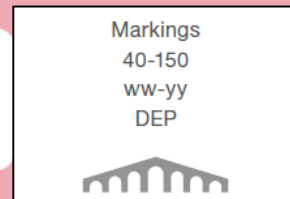
CE Marking Certificate

 SAINT-GOBAIN PAM UK Lows Lane Stanton-by-Dale - Ilkeston Derbyshire DE7 4QU 08	
Unique identification code of the product-type: E001A Declaration of Performance N°DoP-001UK AVCP: 3 for reaction to fire (Range) 4 for all other characteristics EN 877:1999/AC:2008	
Cast iron pipes and fittings, their joints and accessories for the evacuation of water from buildings ENSIGN S (Soil) Range Pipes, fittings and couplings DN 50-600	
Reaction to fire	
- Cast iron	A1
- Range	A1
Internal pressure strength	Conform
Dimension tolerances	Conform
Impact resistance	Conform
- Mechanical properties (pipes)	
- Tensile strength	300 MPa (average value)
- Ring crush strength	450 MPa (average value)
- Brinell hardness	220 HB (average value)
Tightness	Conform
- Water tightness *	
Internal pressure	
DN ≤ 200	≥ 5 bar
DN > 200	≥ 3 bar
* excluded flexible couplings, joints connecting to sanitary ware ...)	
Durability	Conform
- External coatings	
- Pipes	Acrylic/Conform
- Fittings	Epoxy/Conform
- Internal coatings	
- Pipes **	Epoxy/Conform
- Fittings **	Epoxy/Conform
** including resistance to salt spray ≥ 1500 h	

Acoustic Rating

Flow rate l/s	AIRBORNE SOUND			STRUCTURE-BORNE SOUND		
	2.0	4.0	8.0	2.0	4.0	8.0
Ensign pipework fitted with two brackets – Iron bracket EF048	45	48	54	27	32	34
Iron bracket fitted with acoustic dampener EF048AD	45	47	54	5	11	19

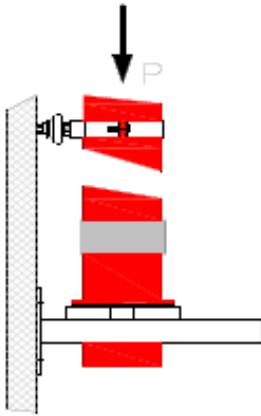
Product Marking



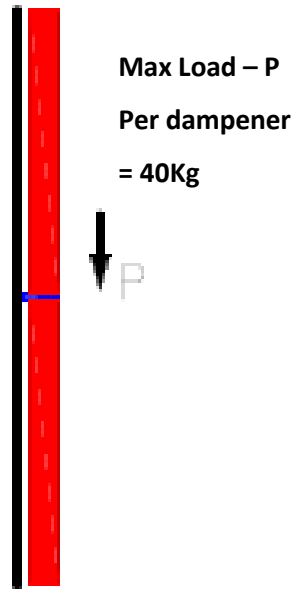
UNICLASS G5811: L7312	
Cl/Sfb	(52.5)
March 2017	R1

Ensign Acoustic Bracket – Installation Guidelines

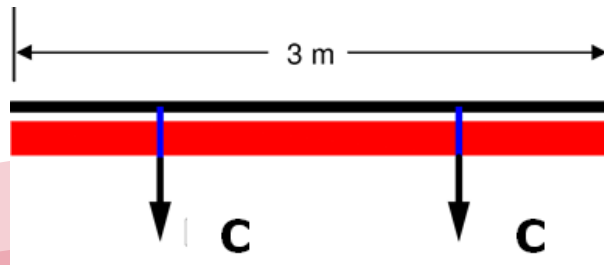
Benefits



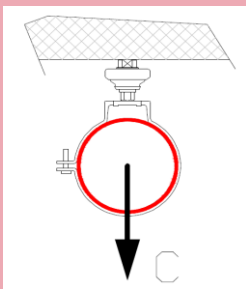
Vertical pipe stack – 1 acoustic bracket min. per 3 mtr. It is also recommended that the EF050/EF051 stack support is used every 5th Floor.



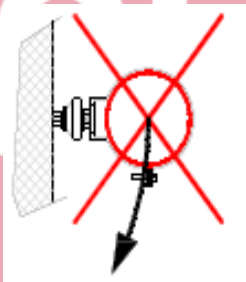
Max Load – C
Per dampener
= 100Kg



Horizontal suspended pipework – 2 acoustic brackets min. per 3 mtr



Horizontal pipework – Fixing brackets on side as per diagram is not recommended, this will lead to product failure



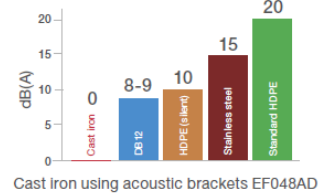
In every case of fixing – to obtain the best noise reduction, the elastomeric dampener must not be deformed or compressed!

■ **Exceptional acoustic performance under laboratory conditions; BS EN14366:2004**

■ **Comparison to other drainage materials; Ensign = 9db quieter than the best acoustic performing plastic systems**

■ **4 to 5db = noise x 2**

Material comparisons – THE DIFFERENCE



■ **Use of Ensign and this bracket reduces the need for the expensive acoustic pipe insulation that is often required by other materials.**