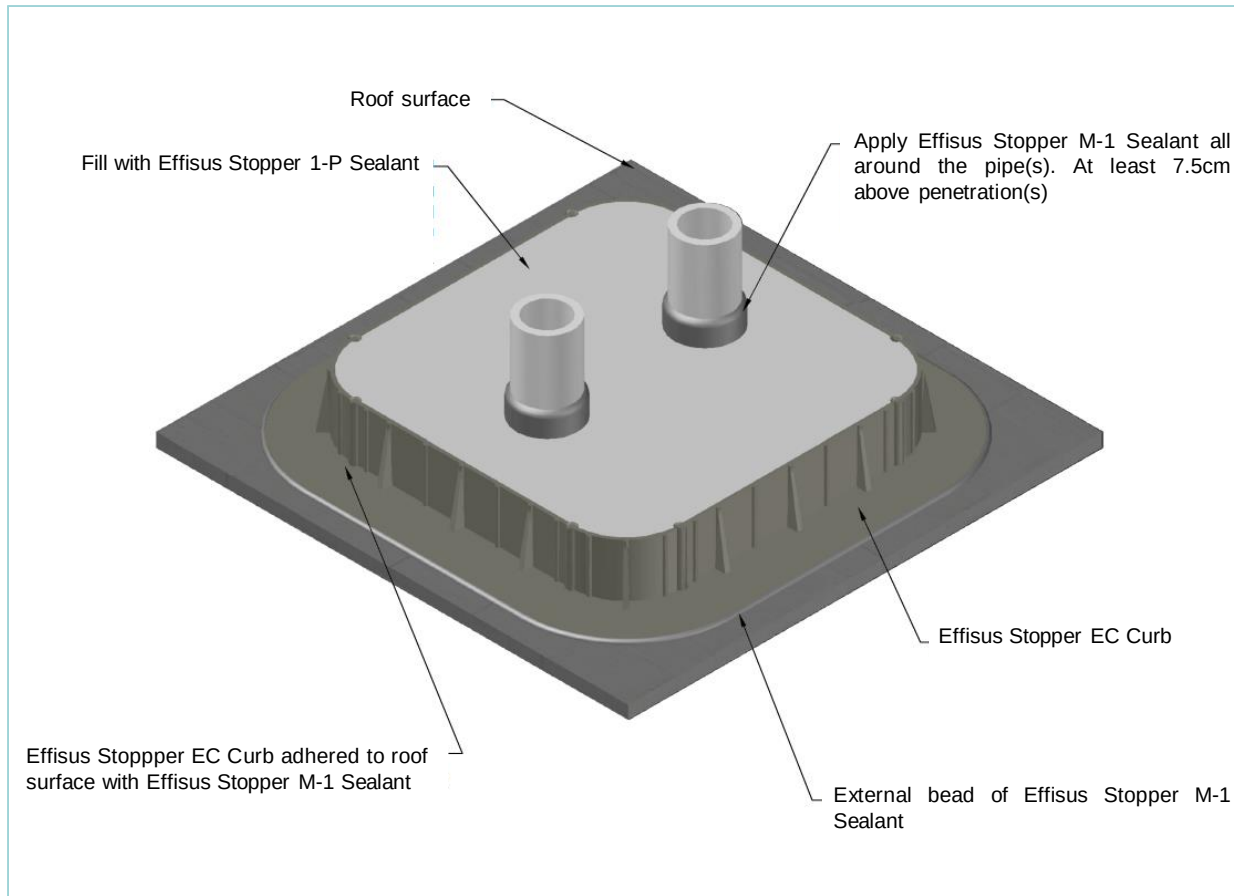


EFFISUS STOPPER EC İ INSTALLATION AND CONSUMPTION RATES

STANDARD DETAIL İ 2 TUBES



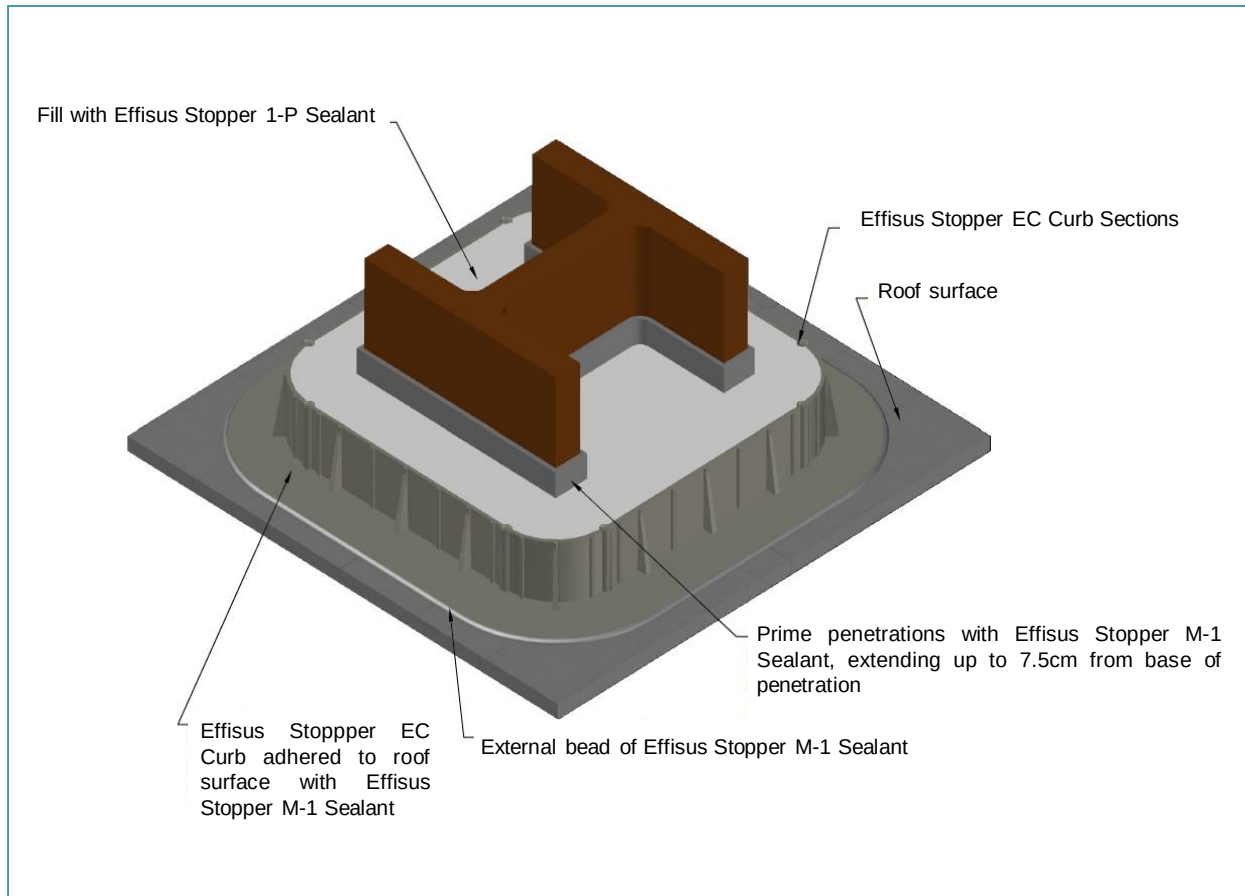
Consumption rates:

Pipes Sizes	Materials consumption		
2 x Ø 25mm *	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,20 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,44 UN
2 x Ø 50mm *	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	2 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,25 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,68 UN
2 x Ø 80mm *	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	2 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,25 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,50 UN

* Space between pipes

EFFISUS STOPPER EC İ INSTALLATION AND CONSUMPTION RATES

H İ BEAM PENETRATION



Consumption rates:

H-Beam	Materials Consumption		
HE 100 B	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,4 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,99 UN
HE 140 A	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,5 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,99 UN
HE 160 A	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,5 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	1,85 UN
HE 180 A	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,5 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	1,83 UN
HE 200 A	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	8 UN
	200011	Effisus Stopper EC Curb Corner 5.0cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,6 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	1,52 UN
HE 240 A	200009	Effisus Stopper EC Curb Extension 20.0cm Gray	4 UN
	200011	Effisus Stopper EC Curb Corner 5.0cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,6 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	2,22 UN
HE 260 A	200009	Effisus Stopper EC Curb Extension 20.0cm Gray	4 UN
	200011	Effisus Stopper EC Curb Corner 5.0cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,6 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	2,19 UN

Diagram illustrating the application of Effisus Stopper 1-P Sealant to a roof penetration:

- Roof surface
- Prime penetrations with Effisus Stopper M-1 Sealant, extending up to 7.5cm from base of penetration
- Effisus Stopper EC Curb
- External bead of Effisus Stopper M-1 Sealant
- Effisus Stopper EC Curb adhered to roof surface with Effisus Stopper M-1 Sealant
- Fill with Effisus Stopper 1-P Sealant

Ducts	Materials consumption
25cm x 25cm	200009 Effisus Stopper EC Curb Extension 20.0cm Gray 4 UN
	200011 Effisus Stopper EC Curb Corner 5.0cm Gray 4 UN
	200301 Effisus Stopper M-1 Sealant 300ml Gray 1 UN
	200203 Effisus Stopper 1-P Sealant 1890ml Gray 0,85 UN
25cm x 2.5cm	200009 Effisus Stopper EC Curb Extension 20.0cm Gray 2 UN
	200001 Effisus Stopper EC Curb Closed Round 7.5cm Gray 1 UN
	200301 Effisus Stopper M-1 Sealant 300ml Gray 0,5 UN
	200203 Effisus Stopper 1-P Sealant 1890ml Gray 0,45 UN
25cm x 5cm	200009 Effisus Stopper EC Curb Extension 20.0cm Gray 2 UN
	200007 Effisus Stopper EC Curb Closed Round 10.0cm Gray 1 UN
	200301 Effisus Stopper M-1 Sealant 300ml Gray 0,5 UN
	200203 Effisus Stopper 1-P Sealant 1890ml Gray 0,51 UN
30cm x 10cm	200009 Effisus Stopper EC Curb Extension 20.0cm Gray 2 UN
	200002 Effisus Stopper EC Curb Closed Round 15.0cm Gray 1 UN
	200301 Effisus Stopper M-1 Sealant 300ml Gray 0,6 UN
	200203 Effisus Stopper 1-P Sealant 1890ml Gray 0,65 UN
38cm x 17cm	200009 Effisus Stopper EC Curb Extension 20.0cm Gray 2 UN
	200003 Effisus Stopper EC Curb Closed Round 22.5cm Gray 1 UN
	200301 Effisus Stopper M-1 Sealant 300ml Gray 0,7 UN
	200203 Effisus Stopper 1-P Sealant 1890ml Gray 0,88 UN

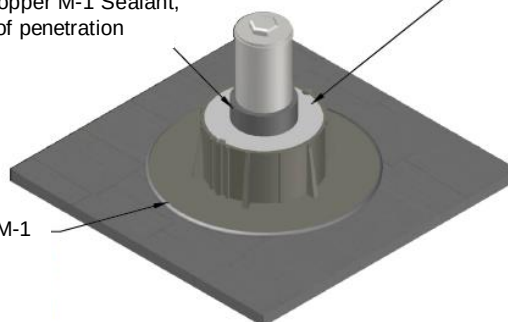
EFFISUS STOPPER EC İ INSTALLATION AND CONSUMPTION RATES

SOLAR PANEL MOUNT

Prime penetrations with Effisus Stopper M-1 Sealant, extending up to 7.5cm from base of penetration

Fill with Effisus Stopper 1-P Sealant

External bead of Effisus Stopper M-1 Sealant

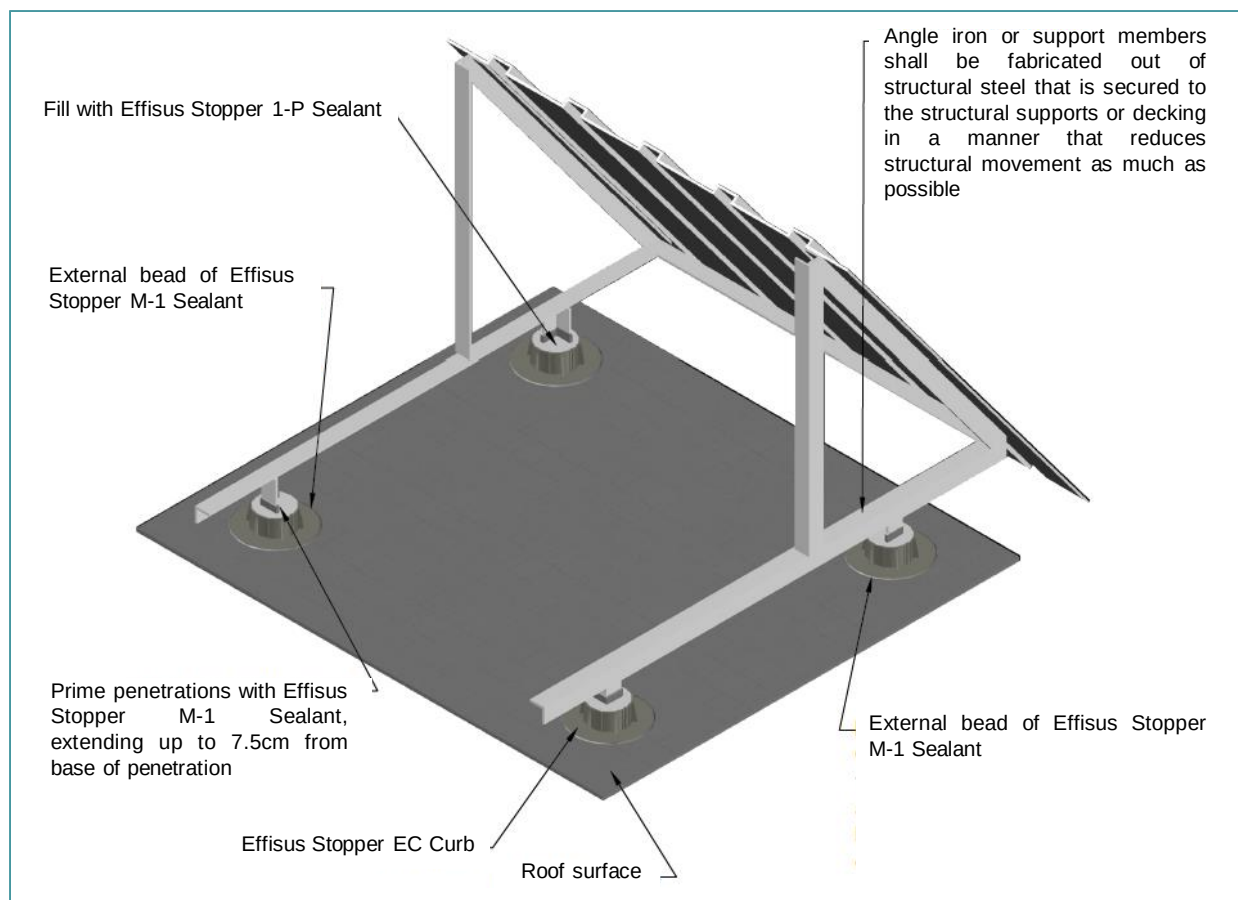


Consumption rates:

Pipe size	Materials consumption		
Ø 25mm	200001	Effisus Stopper EC Circular Fechado Curb 7.5cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,10 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,10 UN
Ø 50mm	200007	Effisus Stopper EC Curb Closed Round 10.0cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,15 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,17 UN
Ø 80mm	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,20 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,33 UN
Ø 100mm	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,25 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,26 UN
Ø 125mm	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,35 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,73 UN
Ø 160mm	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,4 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,52 UN
Ø 200mm	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	8 UN
	200011	Effisus Stopper EC Curb Corner 5.0cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,5 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,82 UN

EFFISUS STOPPER EC İ INSTALLATION AND CONSUMPTION RATES

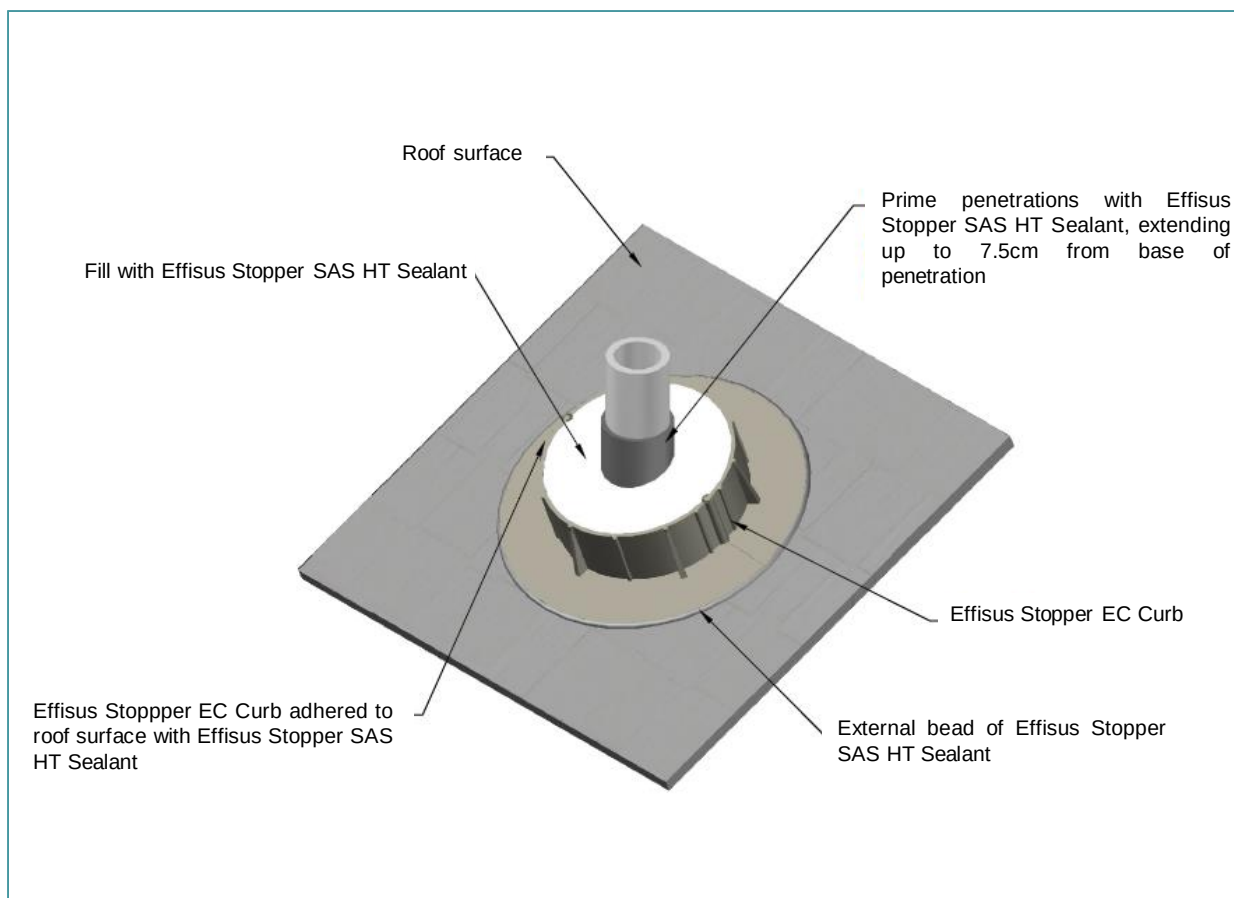
SUPPORT STRUCTURE



Consumption rates:

Pipe size	Materials consumption		
Ø 25mm	200001	Effisus Stopper EC Circular Fechado Curb 7.5cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,10 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,10 UN
Ø 50mm	200007	Effisus Stopper EC Curb Closed Round 10.0cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,15 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,17 UN
Ø 80mm	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,20 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,33 UN
Ø 100mm	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,25 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,26 UN
Ø 125mm	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,35 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,73 UN
Ø 160mm	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,4 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,52 UN
Ø 200mm	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	8 UN
	200011	Effisus Stopper EC Curb Corner 5.0cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,5 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,82 UN

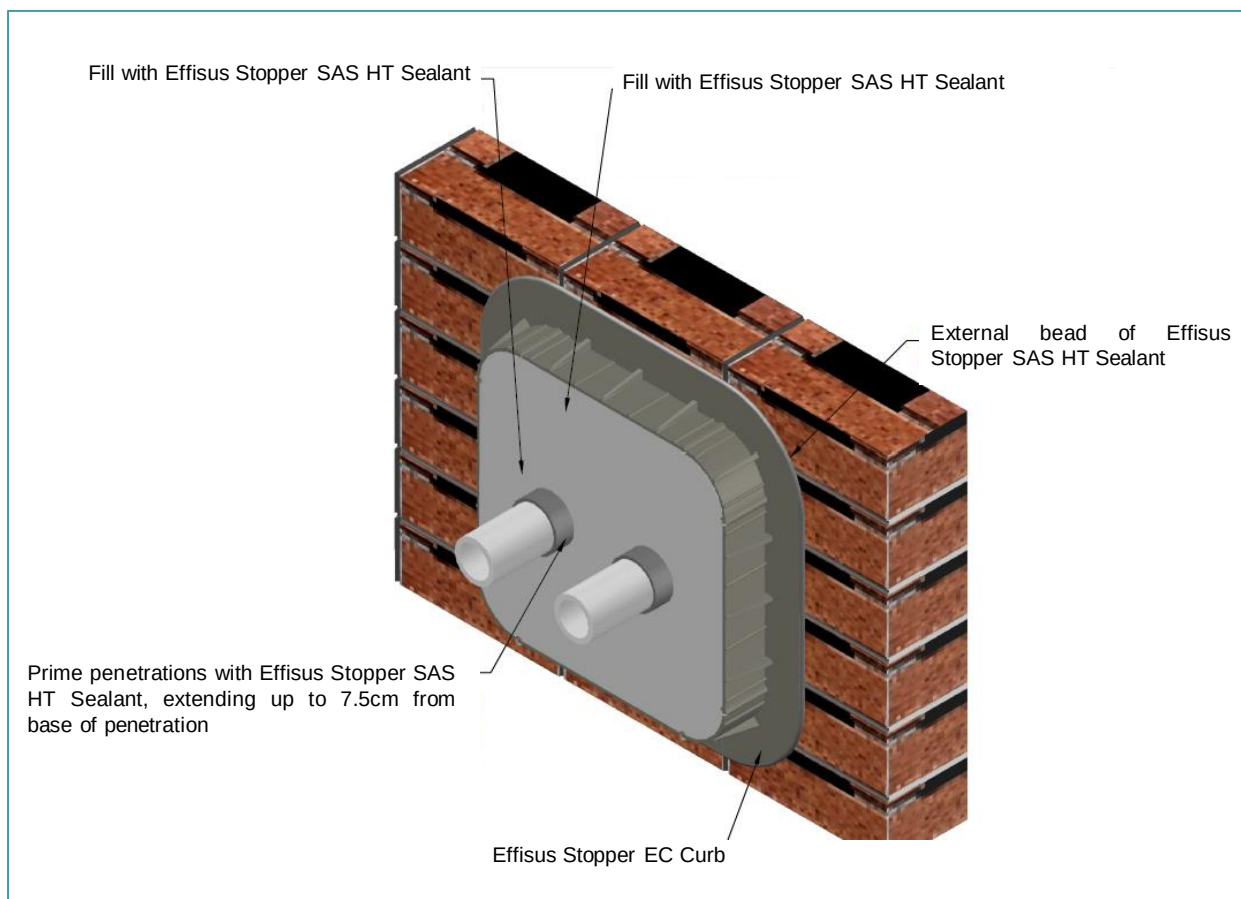
SLOPED ROOF PENETRATION



Consumption rates:

Pipe Slope Roof	Materials consumptionos		
Ø 25mm	200001	Effisus Stopper EC Curb Closed Round 7.5cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	0,73 UN
Ø 50mm	200007	Effisus Stopper EC Curb Closed Round 10.0cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	1,22 UN
Ø 80mm	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	2,28 UN
Ø 100mm	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	1,89 UN
Ø 125mm	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	4,95 UN
Ø 160mm	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	3,68 UN
Ø 200mm	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	8 UN
	200011	Effisus Stopper EC Curb Corner 5.0cm Gray	4 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	5,7 UN

VERTICAL WALL PENETRATIONS



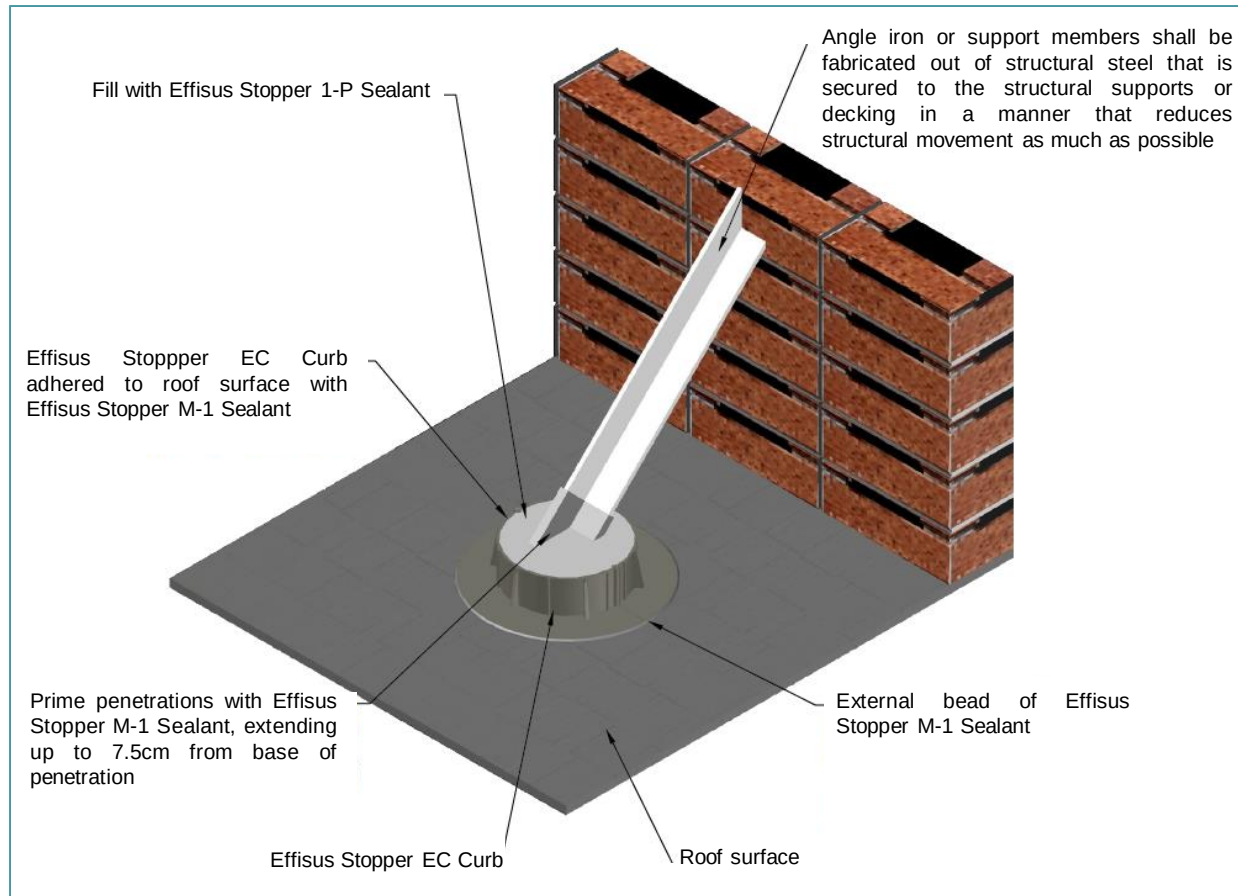
Consumption rates:

Pipes sizes Vertical wall	Materials consumption		
2 x Ø 25mm *	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	2,97 UN
2 x Ø 50mm *	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200015	Molde Effisus Stopper EC Curb Extension 7.6cm Gray	2 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	4,53 UN
2 x Ø 80mm *	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	2 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	3,40 UN

* Space between pipes: 25mm

EFFISUS STOPPER EC İ INSTALLATION AND CONSUMPTION RATES

ANGLE IRON PENETRATION

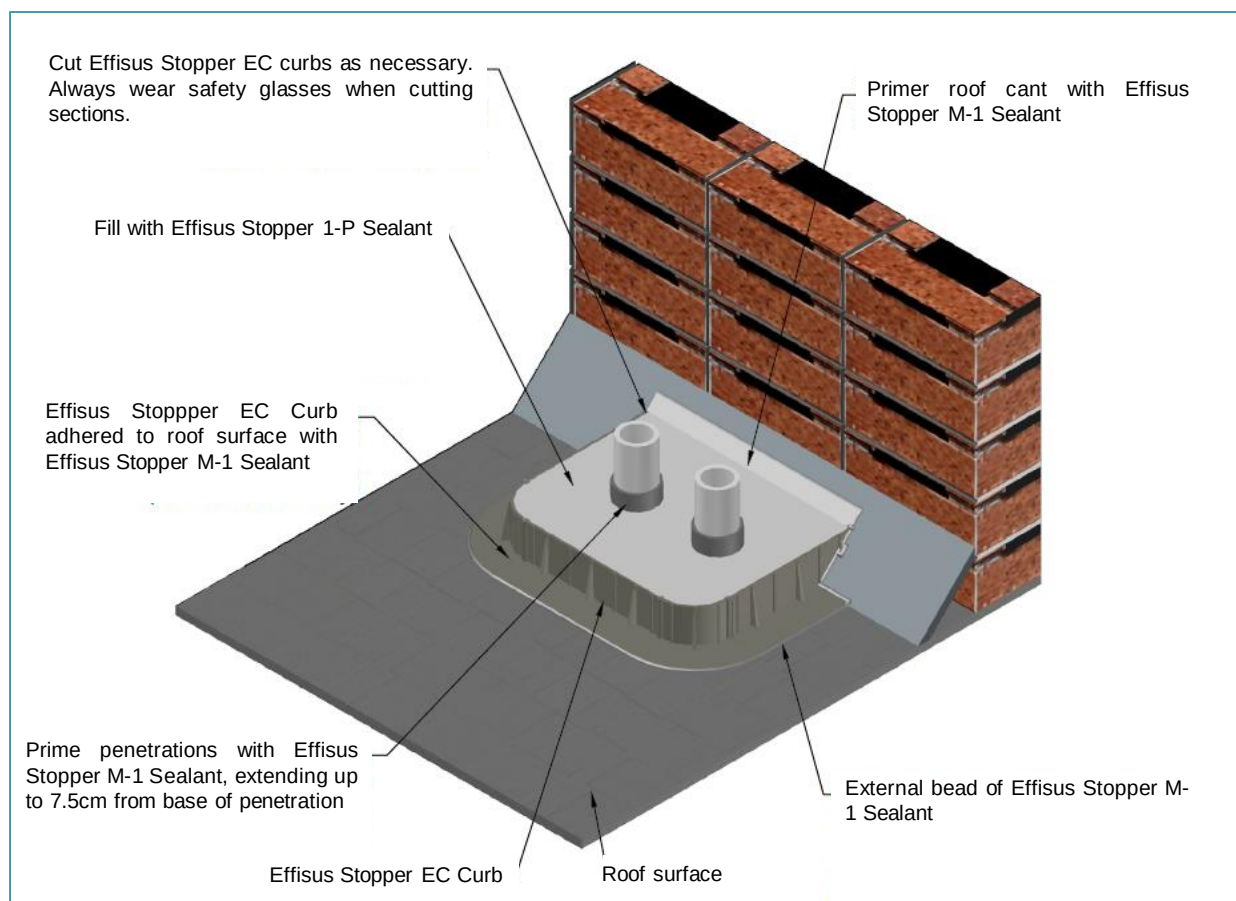


Consumption rates:

H-Beam	Materials Consumption		
HE 100 B	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,4 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,99 UN
HE 140 A	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,5 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,99 UN
HE 160 A	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,5 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	1,85 UN
HE 180 A	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,5 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	1,83 UN
HE 200 A	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	8 UN
	200011	Effisus Stopper EC Curb Corner 5.0cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,6 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	1,52 UN
HE 240 A	200009	Effisus Stopper EC Curb Extension 20.0cm Gray	4 UN
	200011	Effisus Stopper EC Curb Corner 5.0cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,6 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	2,22 UN
HE 260 A	200009	Effisus Stopper EC Curb Extension 20.0cm Gray	4 UN
	200011	Effisus Stopper EC Curb Corner 5.0cm Gray	4 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,6 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	2,19 UN

EFFISUS STOPPER EC İ INSTALLATION AND CONSUMPTION RATES

PENETRATION NEAR WALL FLASHING



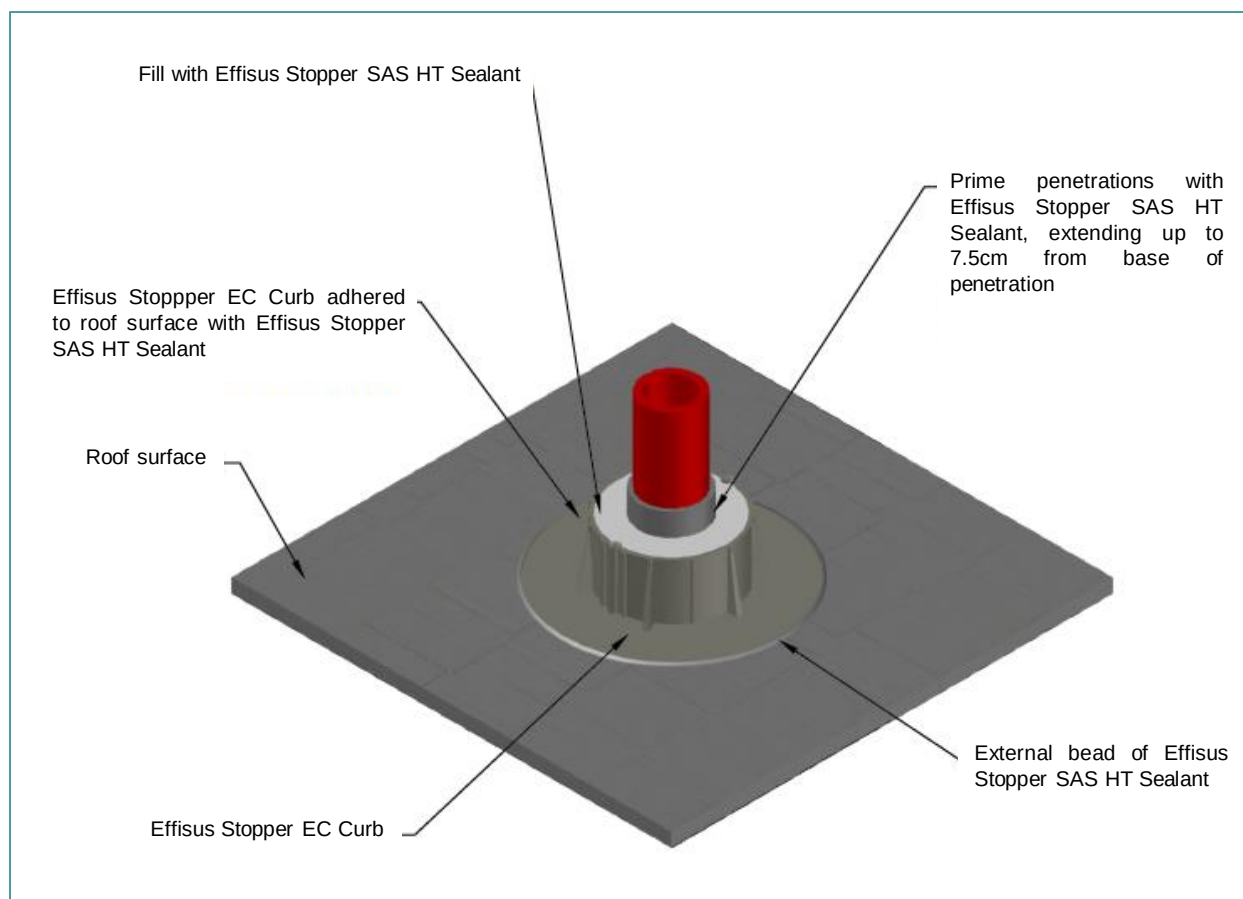
Consumption rates:

Pipes Sizes	Materials consumption		
2 x Ø 25mm *	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,20 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,44 UN
2 x Ø 50mm *	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	2 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,25 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,68 UN
2 x Ø 80mm *	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200015	Effisus Stopper EC Curb Curb Extension 7.6cm Gray	2 UN
	200301	Effisus Stopper M-1 Sealant 300ml Gray	0,25 UN
	200203	Effisus Stopper 1-P Sealant 1890ml Gray	0,50 UN

* Space between pipes: 25mm

EFFISUS STOPPER EC İ INSTALLATION AND CONSUMPTION RATES

HOT STACK PENETRATION (UP TO 204°C)



Consumption rates:

High Temperature Pipe	Materials consumption		
Ø 25mm	200001	Effisus Stopper EC Curb Closed Round 7.5cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	0,73 UN
Ø 50mm	200007	Effisus Stopper EC Curb Closed Round 10.0cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	1,22 UN
Ø 80mm	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	2,28 UN
Ø 100mm	200002	Effisus Stopper EC Curb Closed Round 15.0cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	1,89 UN
Ø 125mm	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	4,95 UN
Ø 160mm	200003	Effisus Stopper EC Curb Closed Round 22.5cm Gray	1 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	3,68 UN
Ø 200mm	200015	Effisus Stopper EC Curb Extension 7.6cm Gray	8 UN
	200011	Effisus Stopper EC Curb Corner 5.0cm Gray	4 UN
	200501	Effisus Stopper SAS HT Sealant 300ml Gray	5,7 UN