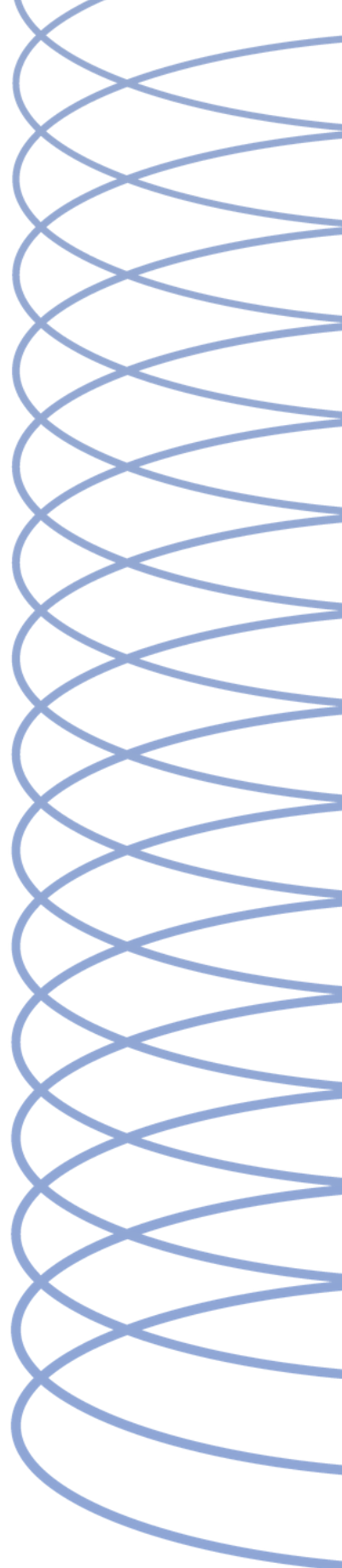




# CaseCore ASTM End Seal



Ultimate Solutions.  
Intelligent Delivery.



## PRODUCT INFORMATION

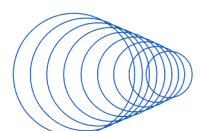
**CaseCore ASTM End Seal** is a made-to-order soft PVC end seal that closes the gap between a casing pipe and the carrier pipe(s) running through it, keeping groundwater, silt and debris out of casing crossings and multi-service penetrations. It's fabricated to the exact dimensions of each installation rather than held as stock. To quote or order you need five measurements: casing OD, casing wall thickness, spacer height, carrier pipe OD(s), and the position of each carrier pipe in the casing. Standard colour is red, with stainless steel tightening straps for the casing and each carrier pipe opening. A KMR configuration (sealing compound plus double straps) is available where the seal has to resist higher external water pressure.

## KEY FEATURES

- Highest-quality seal type between casing and carrier pipe(s)
- Made individually to order for each project. Not a stock item, so lead time applies
- Accepts one or more carrier pipes through a single casing, with optional additional outlets (e.g. cable ducts)
- Can be welded on site for retrofit rehabilitation in specific cases
- Standard stainless steel tightening straps: one for the casing, one for each carrier pipe opening
- Optional KMR configuration adds a sealing compound and double straps for tightness under higher external water pressure
- Simple strap-and-tighten installation, no special tools required

## KEY PROPERTIES

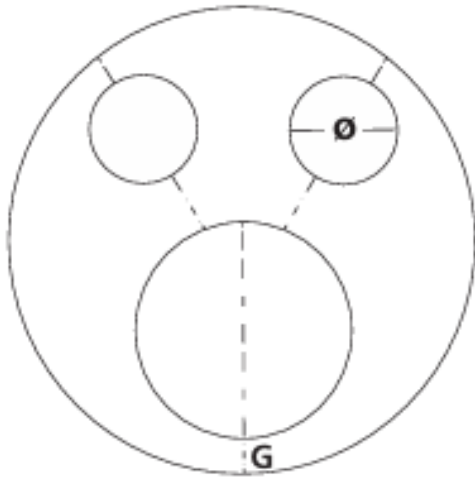
| Property                  | Test Method             | Technical Data                                           |
|---------------------------|-------------------------|----------------------------------------------------------|
| Material                  | -                       | Soft PVC                                                 |
| Colour                    | -                       | Red (standard)                                           |
| Thickness                 | -                       | 5 mm ± 0.30 mm                                           |
| Cold-break temperature    | DIN EN 1876-2           | approx. -35°C                                            |
| Working temperature range | JEDI 35.008 / 35.010    | approx. -5°C to +60°C                                    |
| Water absorption          | DIN 53472               | 0.1% – 1%                                                |
| Elongation at break       | ISO 527                 | ≥ 360%                                                   |
| Tensile strength          | ISO 527                 | ≥ 18 N/mm <sup>2</sup>                                   |
| Tear growth resistance    | DIN 53515               | ≥ 5 N/mm                                                 |
| Hardness (Shore A)        | DIN 53505               | 77 ± 3                                                   |
| Fire performance          | DIN 53382 / DIN 4102-B2 | Normally inflammable (B2), self-extinguishing edge flame |
| REACH                     | -                       | Conforms to (EC) No. 1272/2008                           |
| RoHS                      | 2011/65/EU              | Raw materials meet supplier spec JEDI 35.012             |
| Composition               | -                       | PAH-free, silicone-free                                  |



## APPLICATIONS

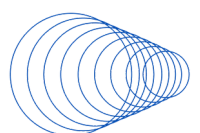
- Casing crossings under roads, rail lines and waterways
- Horizontal directional drilled (HDD) casing installations
- Multi-service casing penetrations, e.g. a water main and cable ducts sharing one casing
- Retrofit sealing of existing casing/carrier pipe systems
- Water, wastewater and utility infrastructure where carrier pipes pass through a protective casing

### Example/Template



### Necessary information:

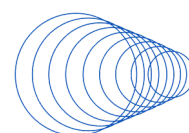
- OD casing
- Wall thickness casing
- Height of spacers
- OD carrier pipes
- Position carrier pipes



## PRODUCT CODES

| Product Code | Dimensions DN in mm |
|--------------|---------------------|
| CCES-18803   | 50 x 200            |
| CCES-18804   | 50 x 250            |
| CCES-18805   | 50 x 300            |
| CCES-18807   | 50 x 400            |
| CCES-18808   | 50 x 500            |
| CCES- 18822  | 65 x 250            |
| CCES- 18823  | 65 x 300            |
| CCES-18825   | 65 x 400            |
| CCES- 18826  | 65 x 500            |
| CCES-18830   | 80 x 200            |
| CCES- 18831  | 80 x 250            |
| CCES- 18832  | 80 x 300            |
| CCES-18833   | 80 x 400            |
| CCES- 18834  | 80 x 500            |
| CCES-18840   | 100 x 200           |
| CCES-18841   | 100 x 250           |
| CCES-18842   | 100 x 300           |
| CCES-18843   | 100 x 350           |
| CCES-18844   | 100 x 400           |
| CCES-18845   | 100 x 500           |
| CCES-18860   | 125 x 200           |
| CCES-18861   | 125 x 250           |
| CCES-18862   | 125 x 300           |
| CCES-18864   | 125 x 400           |
| CCES-18885   | 150 x 500           |
| CCES-18886   | 150 x 600           |
| CCES-18887   | 150 x 700           |
| CCES-18888   | 150 x 800           |
| CCES-18900   | 200 x 300           |
| CCES-18901   | 200 x 350           |
| CCES-18902   | 200 x 400           |

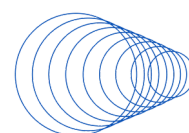
| Product Code | Dimensions DN in mm |
|--------------|---------------------|
| CCES-18903   | 200 x 450           |
| CCES-18904   | 200 x 500           |
| CCES-18905   | 200 x 600           |
| CCES-18906   | 200 x 700           |
| CCES-18907   | 200 x 800           |
| CCES-18920   | 250 x 350           |
| CCES-18921   | 250 x 400           |
| CCES-18922   | 250 x 450           |
| CCES-18923   | 250 x 500           |
| CCES-18924   | 250 x 550           |
| CCES-18925   | 250 x 600           |
| CCES-18926   | 250 x 700           |
| CCES-18927   | 250 x 800           |
| CCES-18928   | 250 x 900           |
| CCES-18929   | 250 x 1000          |
| CCES-18940   | 300 x 400           |
| CCES-18941   | 300 x 450           |
| CCES-18942   | 300 x 500           |
| CCES-18943   | 300 x 550           |
| CCES-18944   | 300 x 600           |
| CCES-18945   | 300 x 650           |
| CCES-18946   | 300 x 700           |
| CCES-18947   | 300 x 800           |
| CCES-18948   | 300 x 900           |
| CCES-18949   | 300 x 1000          |
| CCES-18960   | 350 x 450           |
| CCES-18961   | 350 x 500           |
| CCES-18962   | 350 x 550           |
| CCES-18963   | 350 x 600           |
| CCES-18964   | 350 x 700           |
| CCES-18965   | 350 x 800           |



## PRODUCT CODES

| Product Code | Dimensions DN in mm |
|--------------|---------------------|
| CCES-18966   | 350 x 900           |
| CCES-18980   | 400 x 500           |
| CCES-18981   | 400 x 550           |
| CCES-18982   | 400 x 600           |
| CCES-18983   | 400 x 650           |
| CCES-18984   | 400 x 700           |
| CCES-18985   | 400 x 750           |
| CCES-18986   | 400 x 800           |
| CCES-18987   | 400 x 900           |
| CCES-18988   | 400 x 1000          |
| CCES-19000   | 450 x 550           |
| CCES-19001   | 450 x 600           |
| CCES-19002   | 450 x 650           |
| CCES-19003   | 450 x 700           |
| CCES-19004   | 450 x 800           |
| CCES-19006   | 450 x 1000          |
| CCES-19010   | 500 x 600           |
| CCES-19011   | 500 x 650           |
| CCES-19012   | 500 x 700           |
| CCES-19013   | 500 x 750           |
| CCES-19014   | 500 x 800           |
| CCES-19015   | 500 x 900           |
| CCES-19016   | 500 x 1000          |
| CCES-19017   | 500 x 1100          |
| CCES-19018   | 500 x 1200          |
| CCES-19030   | 550 x 650           |
| CCES-19031   | 550 x 700           |
| CCES-19032   | 550 x 800           |
| CCES-19033   | 550 x 900           |
| CCES-19040   | 600 x 700           |
| CCES-19041   | 600 x 750           |

| Product Code | Dimensions DN in mm |
|--------------|---------------------|
| CCES-19042   | 600 x 800           |
| CCES-19043   | 600 x 850           |
| CCES-19044   | 600 x 900           |
| CCES-19045   | 600 x 1000          |
| CCES-19046   | 600 x 1100          |
| CCES-19060   | 650 x 750           |
| CCES-19061   | 650 x 800           |
| CCES-19062   | 650 x 900           |
| CCES-19063   | 650 x 1000          |
| CCES-19070   | 700 x 800           |
| CCES-19071   | 700 x 850           |
| CCES-19072   | 700 x 900           |
| CCES-19073   | 700 x 1000          |
| CCES-19074   | 700 x 1100          |
| CCES-19075   | 700 x 1200          |
| CCES-19076   | 700 x 1300          |
| CCES-19077   | 700 x 1400          |
| CCES-19090   | 750 x 850           |
| CCES-19091   | 750 x 900           |
| CCES-19092   | 750 x 950           |
| CCES-19093   | 750 x 1000          |
| CCES-19095   | 750 x 1200          |
| CCES-19100   | 800 x 900           |
| CCES-19101   | 800 x 950           |
| CCES-19102   | 800 x 1000          |
| CCES-19103   | 800 x 1100          |
| CCES-19104   | 800 x 1200          |
| CCES-19105   | 800 x 1300          |
| CCES-19106   | 800 x 1400          |
| CCES-19120   | 850 x 950           |
| CCES-19121   | 850 x 1000          |



## ● PRODUCT CODES

| Product Code | Dimensions DN in mm |
|--------------|---------------------|
| CCES-19122   | 850 x 1100          |
| CCES-19130   | 900 x 1000          |
| CCES-19131   | 900 x 1050          |
| CCES-19132   | 900 x 1100          |
| CCES-19133   | 900 x 1200          |
| CCES-19140   | 950 x 1050          |
| CCES-19141   | 950 x 1100          |
| CCES-19142   | 950 x 1200          |
| CCES-19143   | 950 x 1300          |
| CCES-19150   | 1000 x 1100         |
| CCES-19151   | 1000 x 1200         |
| CCES-19152   | 1000 x 1300         |
| CCES-19153   | 1000 x 1400         |
| CCES-19154   | 1000 x 1500         |
| CCES-19170   | 1050 x 1200         |
| CCES-19171   | 1050 x 1300         |
| CCES-19172   | 1050 x 1400         |

*Other dimensions on request.*

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