

# UL-EU CERTIFICATE

**Certificate No.**  
UL-EU-01358-EN

**Issue date**  
2025-10-29

**Issue No.**  
1

**Re-Issue date**  
-

**Expiry date**  
2035-10-29



4705

**This is to acknowledge that:**  
ROCKWOOL Ltd.

**Address:**  
Wern Tarw, Pencoed, Bridgend, CF53 6NY

**Has had the product:**  
FirePro® PWRoll

evaluated and meets the requirements of the standards:

EAD 350454-00-1104, September 2017/EN 13501-2: 2023

**Places of production:**  
ROCKWOOL Limited  
Unit 2, Hams Hall, Canton Line  
Birmingham  
B45 1GA

Authorised Signatory:

A handwritten signature in blue ink, appearing to read 'Chris Johnson'.

Chris Johnson  
Issued by UL International (UK) Ltd

This is to certify that representative samples of the Certified Product listed above have been investigated by Underwriters Laboratories to the Standard(s) indicated on this Certificate, in accordance with the UL Global Services Agreement and the UL-EU Mark Service Terms and Conditions ("Agreement"). The Certificate Holder is entitled to use the UL-EU Mark for the Certified Product listed on the certificate and manufactured at the production site(s) listed, in accordance with the terms of the Agreement. Only those products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU Mark Service. This Certificate shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



## Appendix UL-EU CERTIFICATE UL-EU-01358-EN

This certificate relates to the use of FirePro PWRoll for fire stopping of service penetrations through floors and walls. The defined scope is provided in pages 4 to 20 of this certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 240 minutes for differing services and wall/floor constructions.

The product is certificated on the basis of:

- i) Inspection and surveillance of factory production control by UL
- ii) Fire resistance test data in accordance with EN 1366-3: 2021 and EN 1366-3: 2021 + A1:2024
- iii) Classification in accordance with EN 13501-2:2023
- iv) Durability and Serviceability as defined in EAD 350454-00-1104

The durability class of FirePro PWRoll is Type X : – intended for use in conditions exposed to weathering (includes all lower classes).

According to EN 1366-3: 2021+A1: 2024, Clause H.4.1.8.6.2, the following end uses are envisaged\* based upon the tested pipe end configuration:

| Pipe material | Tested pipe end | Envisaged use scenario                                                     |
|---------------|-----------------|----------------------------------------------------------------------------|
| Metal         | C/U or C/C      | Closed pipe systems (e.g. systems under pressure)                          |
|               | U/U, U/C or C/U | Ventilated pipe systems (e.g. sewage pipes) and for closed pipe systems    |
| Plastic       | U/U or C/U      | Ventilated pipe systems and for closed pipe systems                        |
|               | U/U             | Ventilated pipe systems, for rainwater systems and for closed pipe systems |

\* In the case where a national prescription is in conflict with the content of the table above, the national prescriptions prevail.



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| Product-Type: Sealant                                                | Intended Use: Penetration Seal                           |                                                    |
|----------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|
| Assessment Method                                                    | Essential Characteristics                                | Product Performance                                |
| <b>BWR 2 Safety in case of fire</b>                                  |                                                          |                                                    |
| EN 13501-1                                                           | Reaction to fire                                         | No performance determined                          |
| EN 13501-2:2023                                                      | Resistance to fire                                       | See pages 4 to 20                                  |
| <b>BWR 3 Hygiene, health and environment</b>                         |                                                          |                                                    |
| Declaration of Manufacturer & EN 16516                               | Content, emission and/or release of dangerous substances | Use categories: IA1<br>Declaration of manufacturer |
| EN 1026:2016                                                         | Air Permeability (Material Property)                     | No performance determined                          |
| EN 1027:2016                                                         | Water Permeability (Material Property)                   | No performance determined                          |
| <b>BWR 4 Safety in use</b>                                           |                                                          |                                                    |
| EAD 350141-00-1104, Clause 2.2.6                                     | Mechanical resistance and stability                      | No performance determined                          |
| EAD 350141-00-1104, Clause 2.2.7                                     | Resistance to impact/movement                            | No performance determined                          |
| EAD 350141-00-1104, Clause 2.2.8                                     | Adhesion                                                 | No performance determined                          |
| EAD 350141-00-1104, Clause 2.2.9                                     | Durability                                               | Type X                                             |
| <b>BWR 5 Protection against noise</b>                                |                                                          |                                                    |
| EN 10140-2:2021                                                      | Airborne sound insulation                                | No performance determined                          |
| <b>BWR 6 Energy economy and heat retention</b>                       |                                                          |                                                    |
| EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 10456 | Thermal properties                                       | No performance determined                          |
| EN ISO 12572, EN 12086, EN ISO 10456                                 | Water vapour permeability                                | No performance determined                          |



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## Supporting substrate types

| Substrate type                    | Minimum specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Single skin flexible walls</b> | The flexible wall construction must be classified in accordance with EN 13501-2 for the required fire resistance period and must have a minimum thickness of 75 mm. The walls may be insulated or uninsulated.<br>The flexible wall construction comprises steel or timber studs lined on both faces with a minimum of 1 Layer $\geq 12,5$ mm thick boards. For timber stud walls there must be a minimum distance of 100 mm from the seal to any stud. The cavity between stud and seal must be closed with an insulation of Class A1 (in accordance with EN 13501-1) for at least 100 mm distance.     |
| <b>Double skin flexible walls</b> | The flexible wall construction must be classified in accordance with EN 13501-2 for the required fire resistance period and must have a minimum thickness of 100 mm. The walls may be insulated or uninsulated.<br>The flexible wall construction comprise steel or timber studs lined on both faces with a minimum of 2 Layers of $\geq 12,5$ mm thick boards. For timber stud walls there must be a minimum distance of 100 mm from the seal to any stud. The cavity between stud and seal must be closed with an insulation of Class A1 (in accordance with EN 13501-1) for at least 100 mm distance. |
| <b>Rigid walls</b>                | The rigid wall must have a minimum thickness of 100 mm and comprise aerated concrete, concrete or masonry, with a minimum density of 600 kg/m <sup>3</sup> .                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Rigid floors</b>               | The rigid wall must have a minimum thickness of 150 mm and comprise aerated concrete, concrete or masonry, with a minimum density of 600 kg/m <sup>3</sup> .                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Summary of assumptions

The ROCKWOOL FirePro® PWRoll shall be installed in line with the details given in the latest revision of Classification report 4791365595.1.

## Spacings

Separation distances between pipes covered within this report are set at a minimum of 50 mm. Separation between other services is 100 mm

## Service support

### Floor

Maximum distance from the top of the seal to the first service support shall be in line with the below distances unless specified otherwise within a specific detail:

Combustible pipes : 500 mm



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## Wall

Maximum distance from the face of the wall to the first service support shall be in line with the below distances unless specified otherwise within a specific detail: Services shall be supported either side of the wall

Combustible pipes: 450 mm

## Pipe end configuration for pipe penetrations

Combustible pipes: U/C

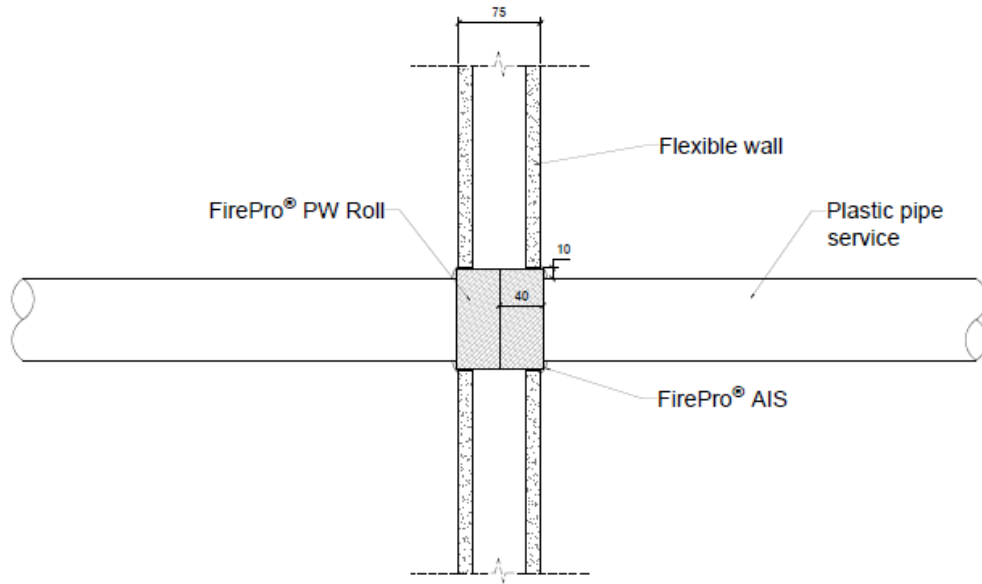


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## FirePro® PWRoll seals within min 75mm thick, single skin Flexible walls

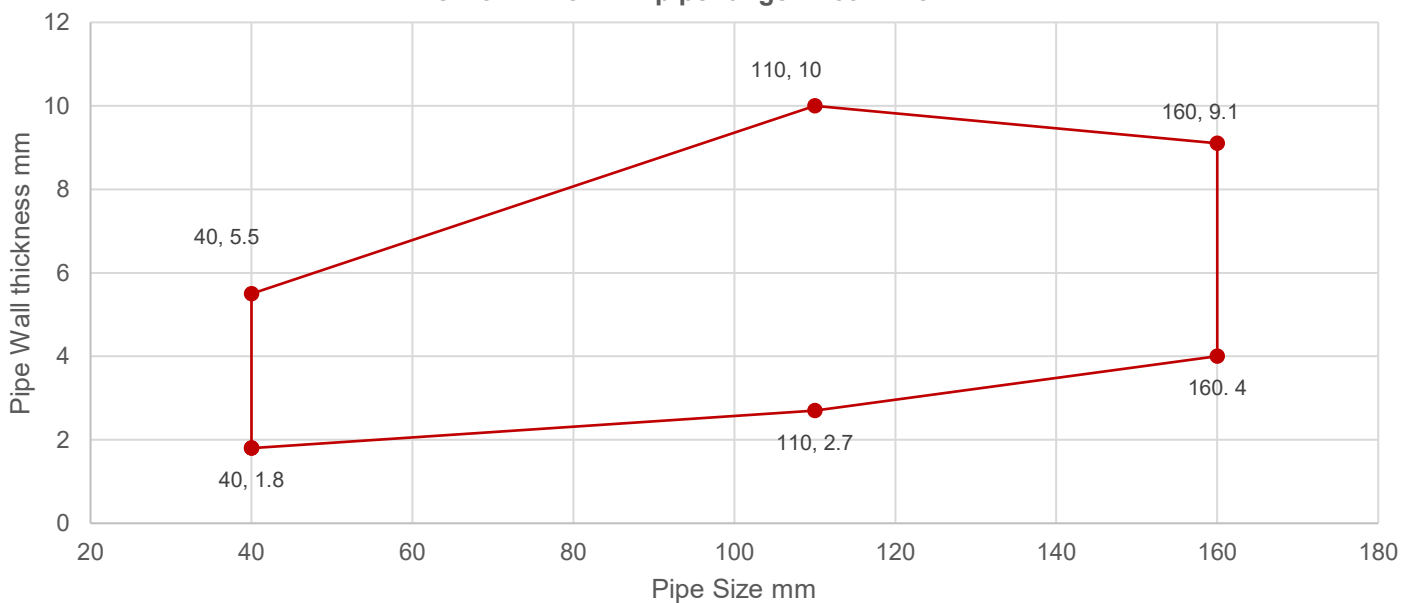
### Plastic pipes

#### PP Pipes



| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                     | Classification   |
|----------------|------------------------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| ≤40            | 1                      | 2                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the wall. A nominal bead of FirePro® AIS Sealant applied to seal any gaps. | E 60 / EI 45 U/C |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                      |                  |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                      |                  |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                      |                  |

FirePro PWRoll: PP pipe range: E 60/EI 45

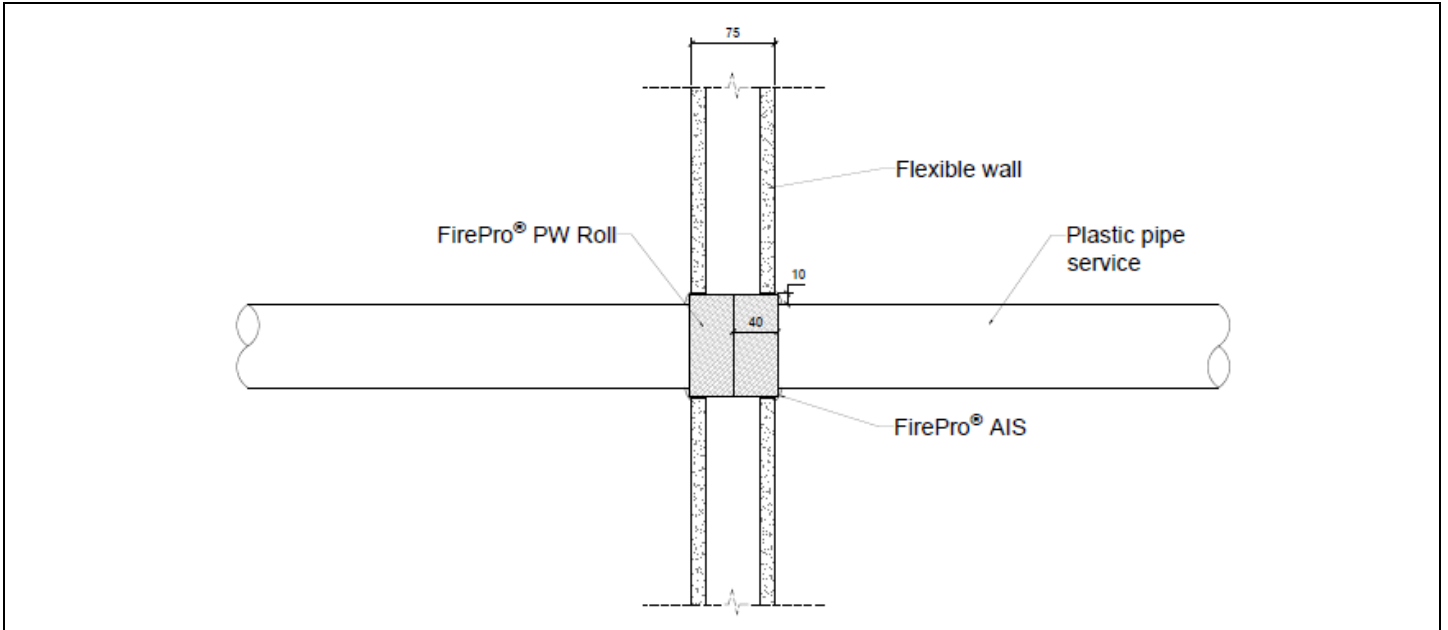


**Solutions**

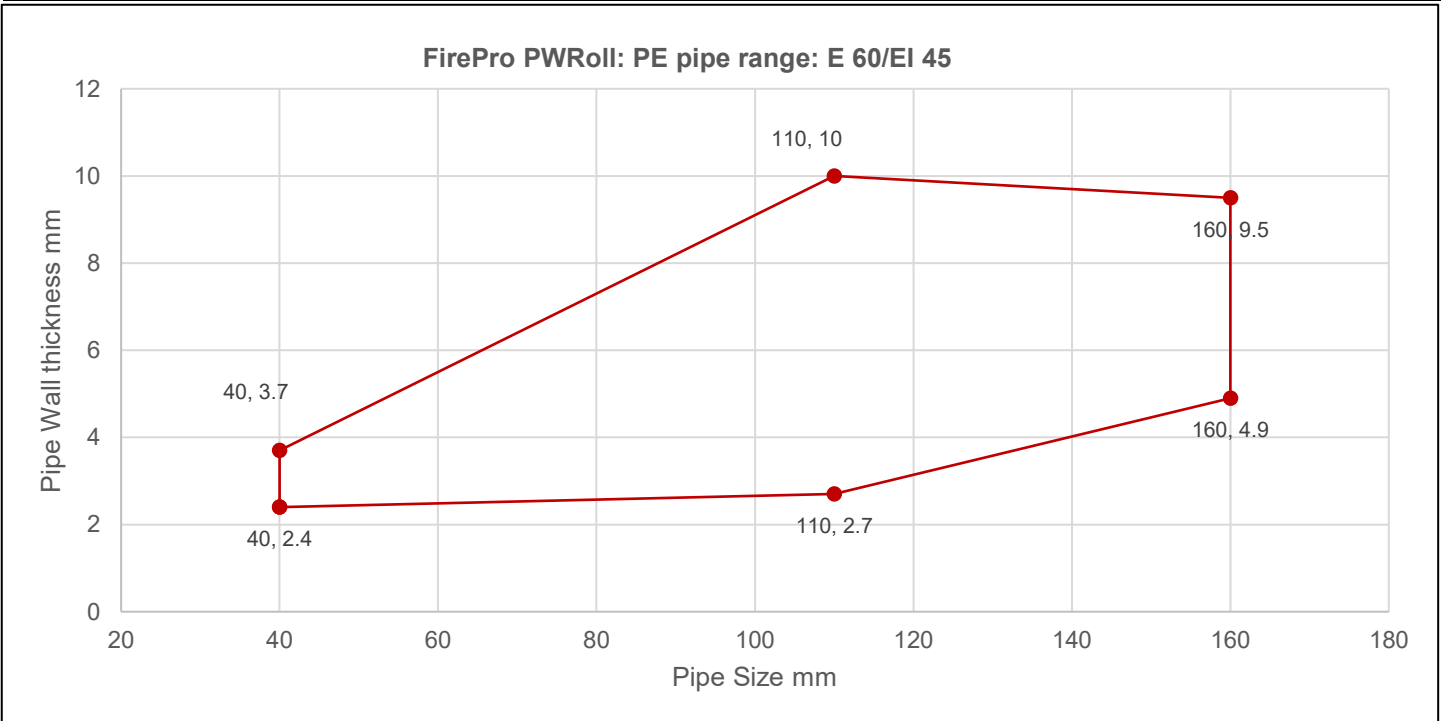
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## PE Pipes



| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                     | Classification          |
|----------------|------------------------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| ≤40            | 1                      | 2                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the wall. A nominal bead of FirePro® AIS Sealant applied to seal any gaps. | <b>E 60 / EI 45 U/C</b> |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                      |                         |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                      |                         |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                      |                         |

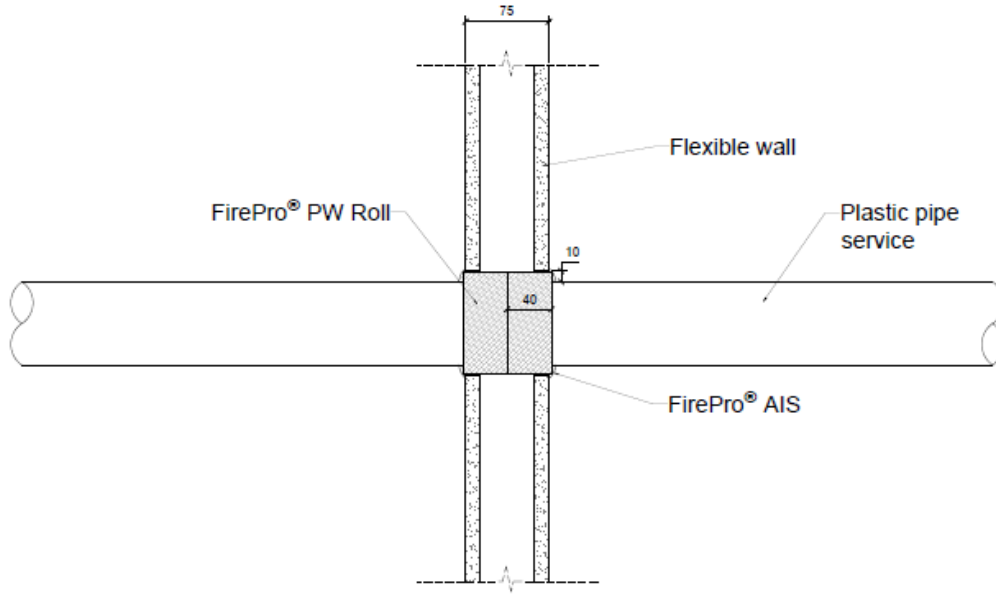


**Solutions**

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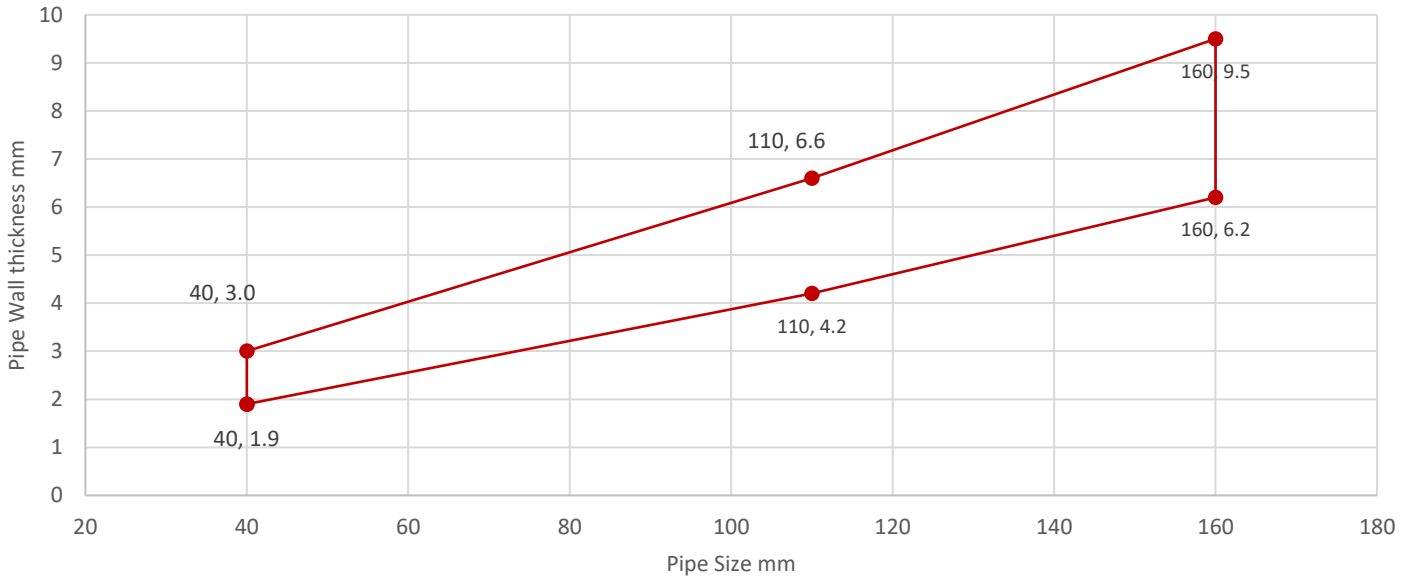
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## PVC Pipes



| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                     | Classification   |
|----------------|------------------------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| ≤40            | 1                      | 2                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the wall. A nominal bead of FirePro® AIS Sealant applied to seal any gaps. | E 60 / EI 45 U/C |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                      |                  |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                      |                  |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                      |                  |

FirePro PWRoll: PVC pipe range: E 60/EI 45

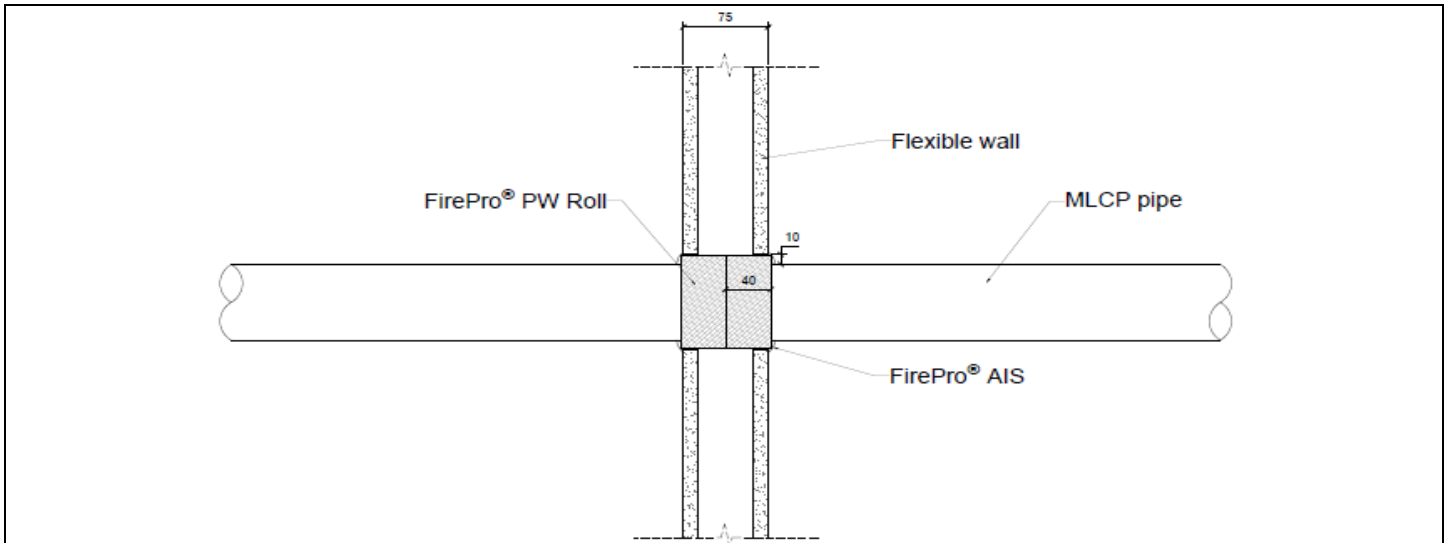


**Solutions**

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## MLCP Pipes



| Pipe material                                        | Pipe size (mm) | Pipe wall thickness (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                     | Classification   |
|------------------------------------------------------|----------------|--------------------------|------------------------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| UPONOR<br>UNI PIPE<br>PLUS PP-<br>RT / AL /<br>PP-RT | 110            | 10                       | 3                      | 6                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the wall. A nominal bead of FirePro® AIS Sealant applied to seal any gaps. | EI 60 U/C        |
|                                                      | 40             | 4                        | 1                      | 2                          | ≤5.5             |                                                                                                                                                                      | E 60 / EI 45 U/C |

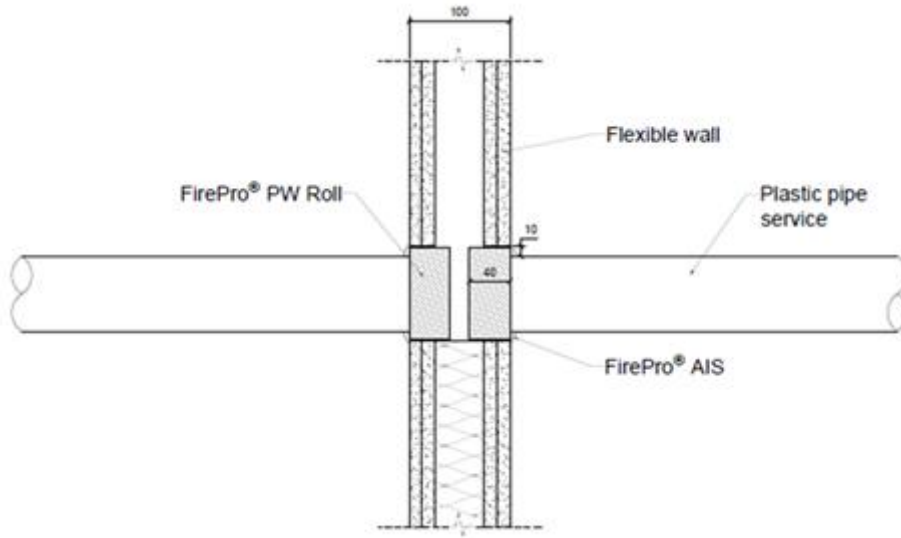


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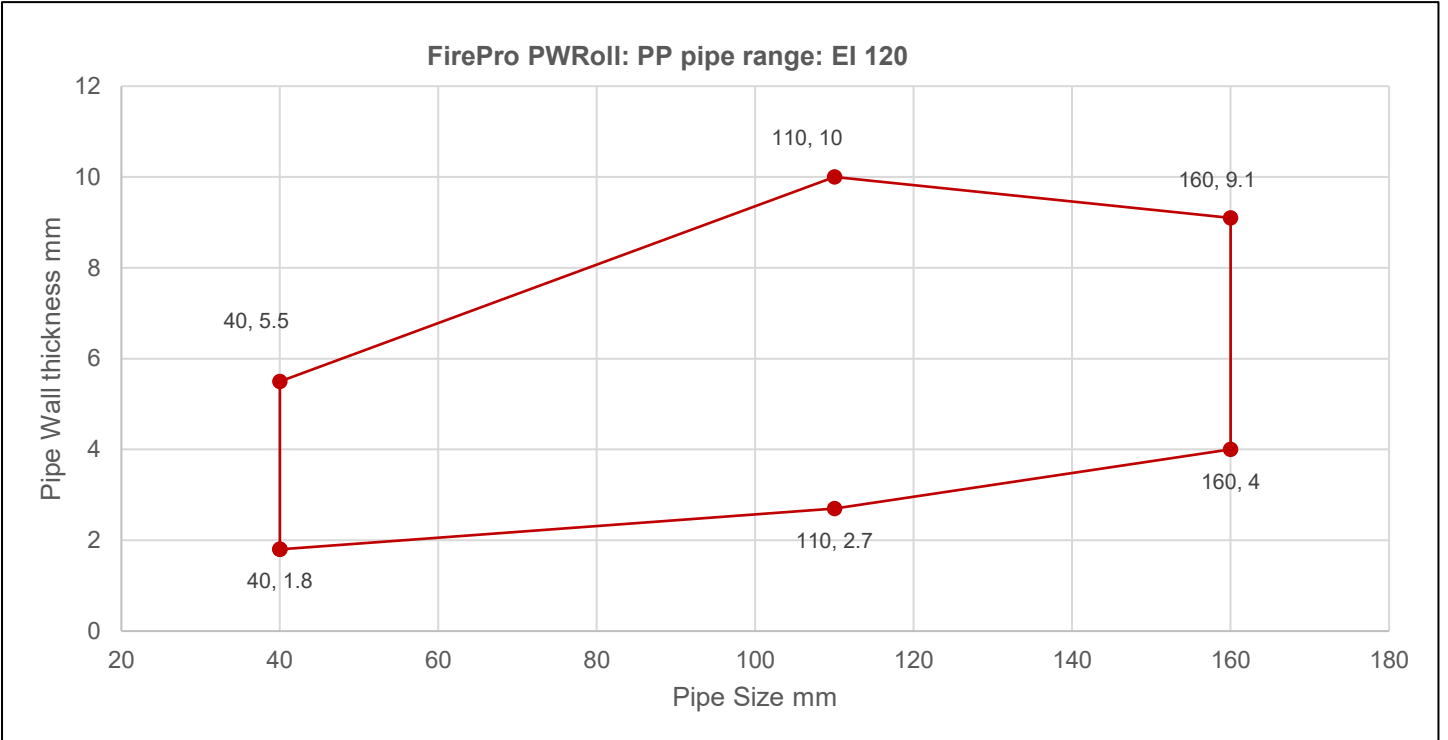
FirePro® PWRoll seals within min 100 mm thick, double skin flexible walls

Plastic pipes

PP Pipes



| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                                                      | Classification |
|----------------|------------------------|----------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ≤40            | 1                      | 2                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the plasterboard and sealed over with nominal bead of FirePro® AIS Sealant over both faces as a smoke seal. | EI 120 U/C     |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                                                       |                |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                                                       |                |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                                                       |                |

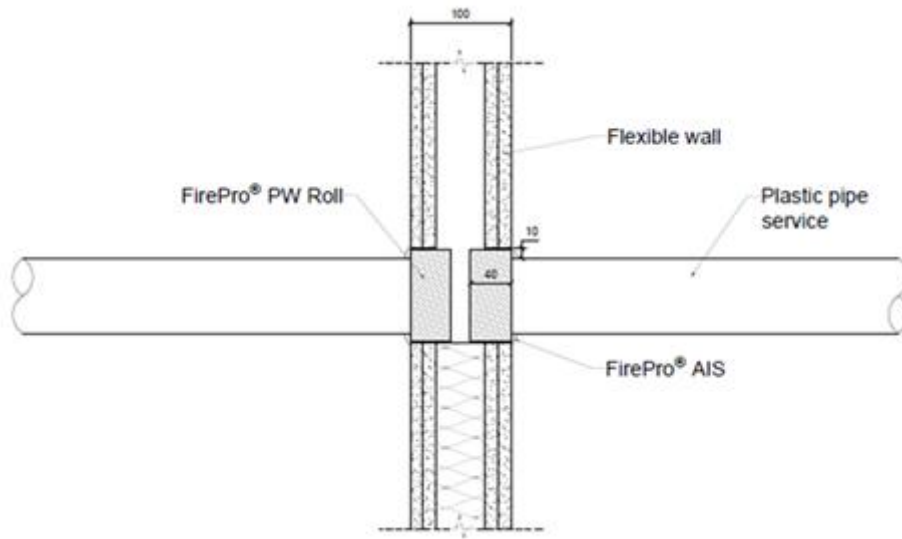


**Solutions**

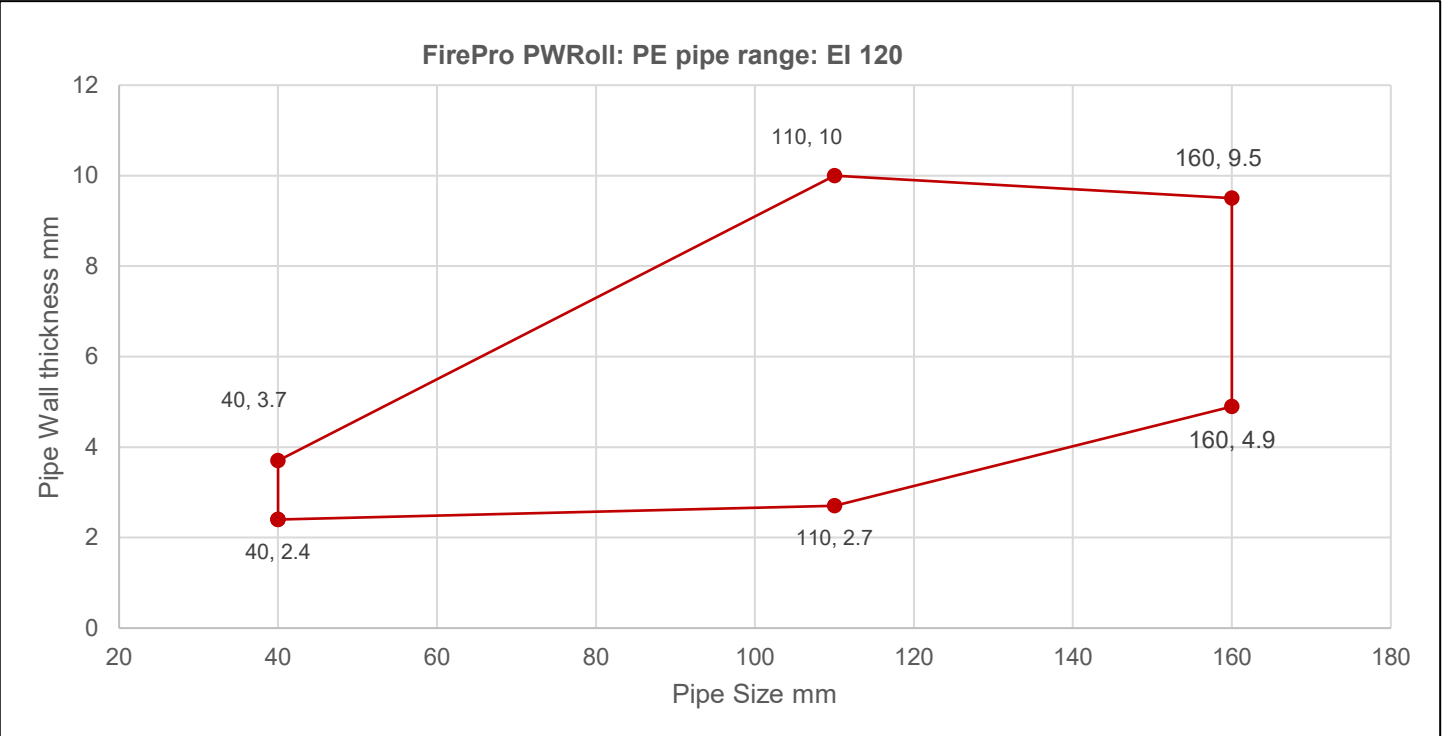
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# Appendix UL-EU CERTIFICATE UL-EU-01358-EN

## PE Pipes



| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                                                      | Classification |
|----------------|------------------------|----------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ≤40            | 1                      | 2                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the plasterboard and sealed over with nominal bead of FirePro® AIS Sealant over both faces as a smoke seal. | EI 120 U/C     |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                                                       |                |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                                                       |                |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                                                       |                |

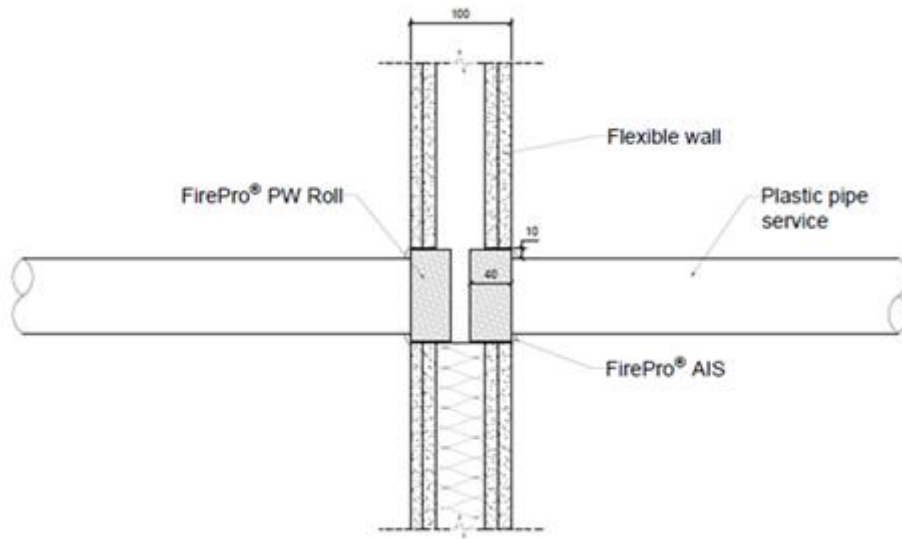


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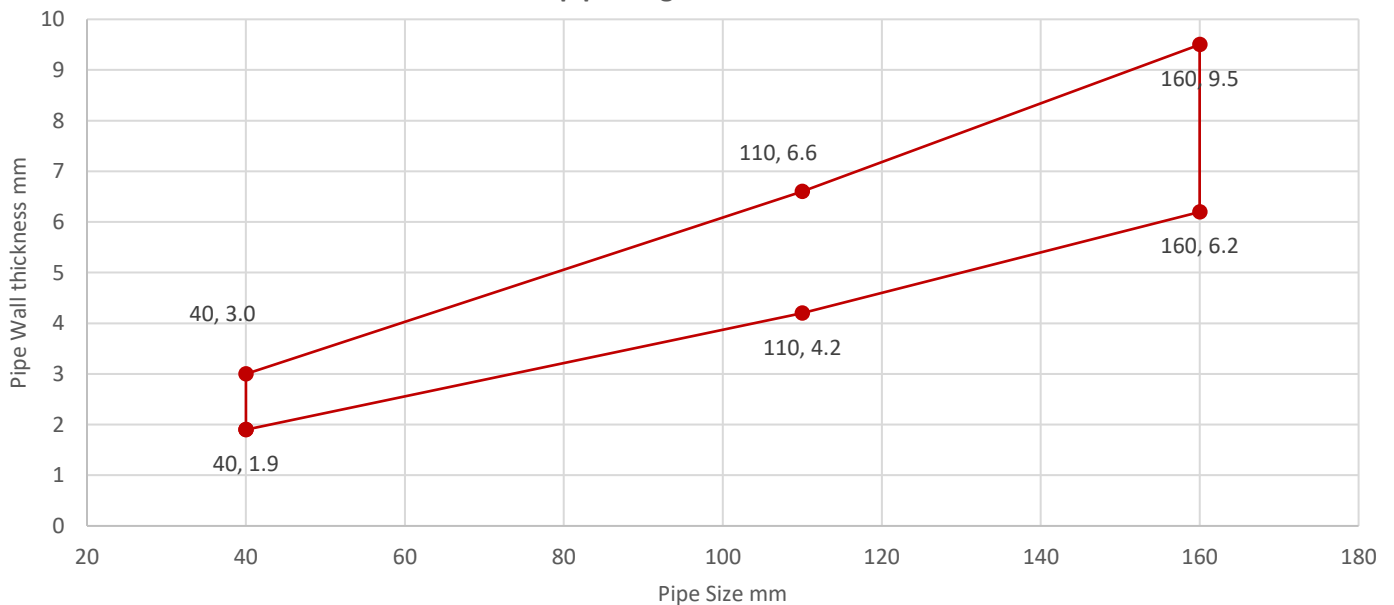
# Appendix UL-EU CERTIFICATE UL-EU-01358-EN

## PVC Pipes



| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                                                      | Classification |
|----------------|------------------------|----------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ≤40            | 1                      | 2                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the plasterboard and sealed over with nominal bead of FirePro® AIS Sealant over both faces as a smoke seal. | EI 120 U/C     |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                                                       |                |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                                                       |                |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                                                       |                |

FirePro PWRoll: PVC pipe range: EI 120

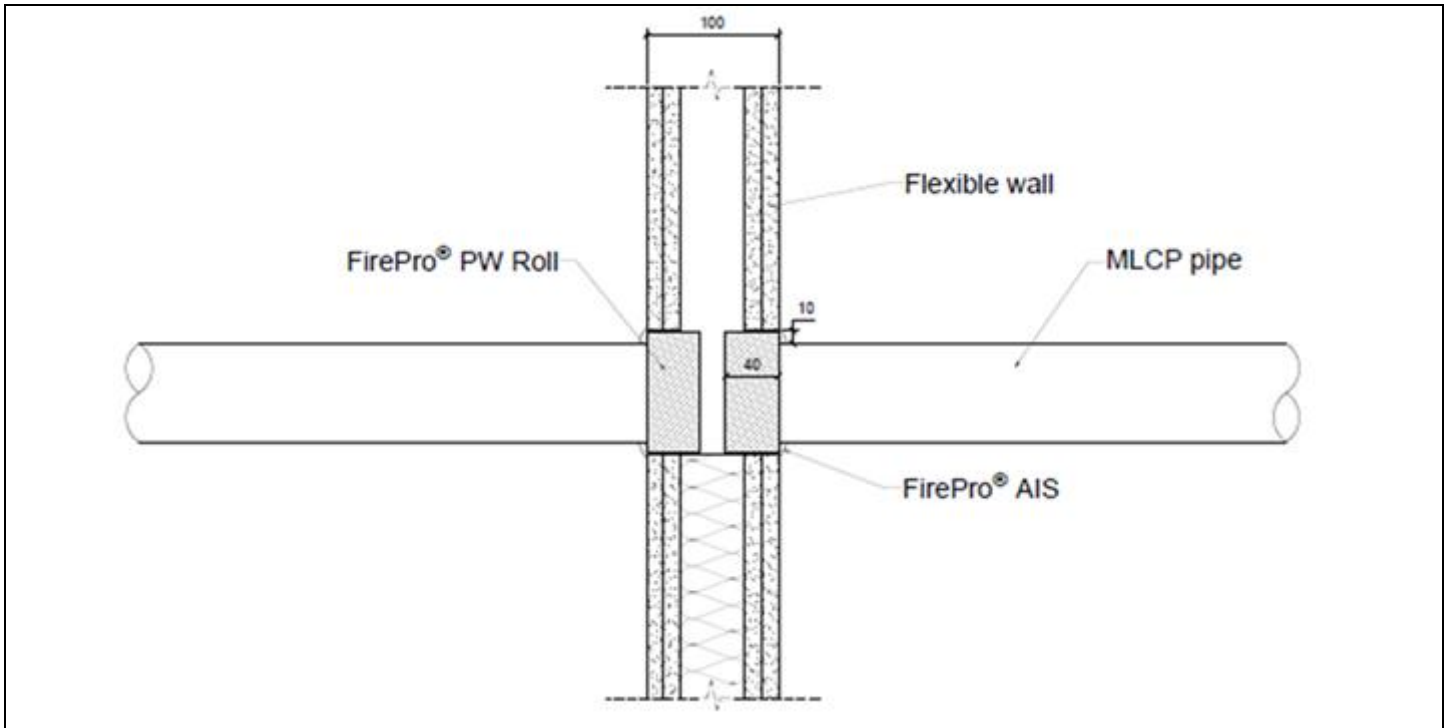


**Solutions**

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## MLCP Pipes



| Pipe material                           | Pipe size (mm) | Pipe wall thickness (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                     | Classification           |
|-----------------------------------------|----------------|--------------------------|------------------------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| UPONOR UNI PIPE PLUS PP-RT / AL / PP-RT | 110            | 10                       | 3                      | 6                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the wall. A nominal bead of FirePro® AIS Sealant applied to seal any gaps. | <b>E 120 / EI 60 U/C</b> |
|                                         | 40             | 4                        | 1                      | 2                          | ≤5.5             |                                                                                                                                                                      | <b>EI 120 U/C</b>        |

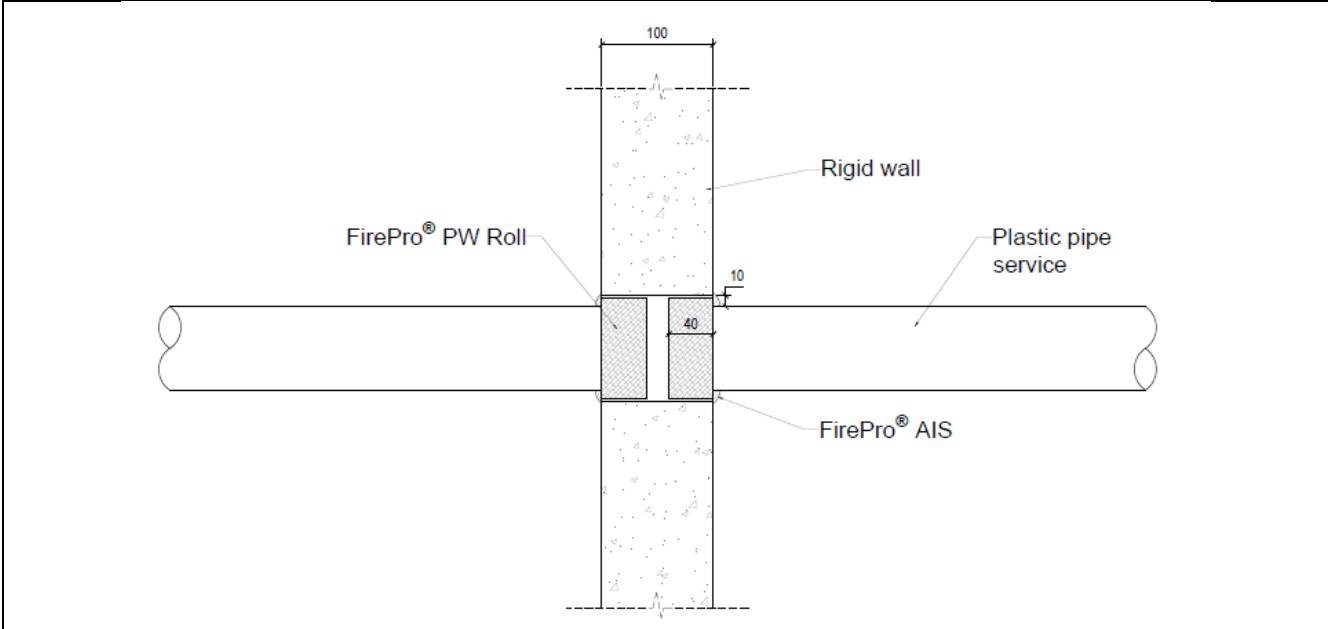


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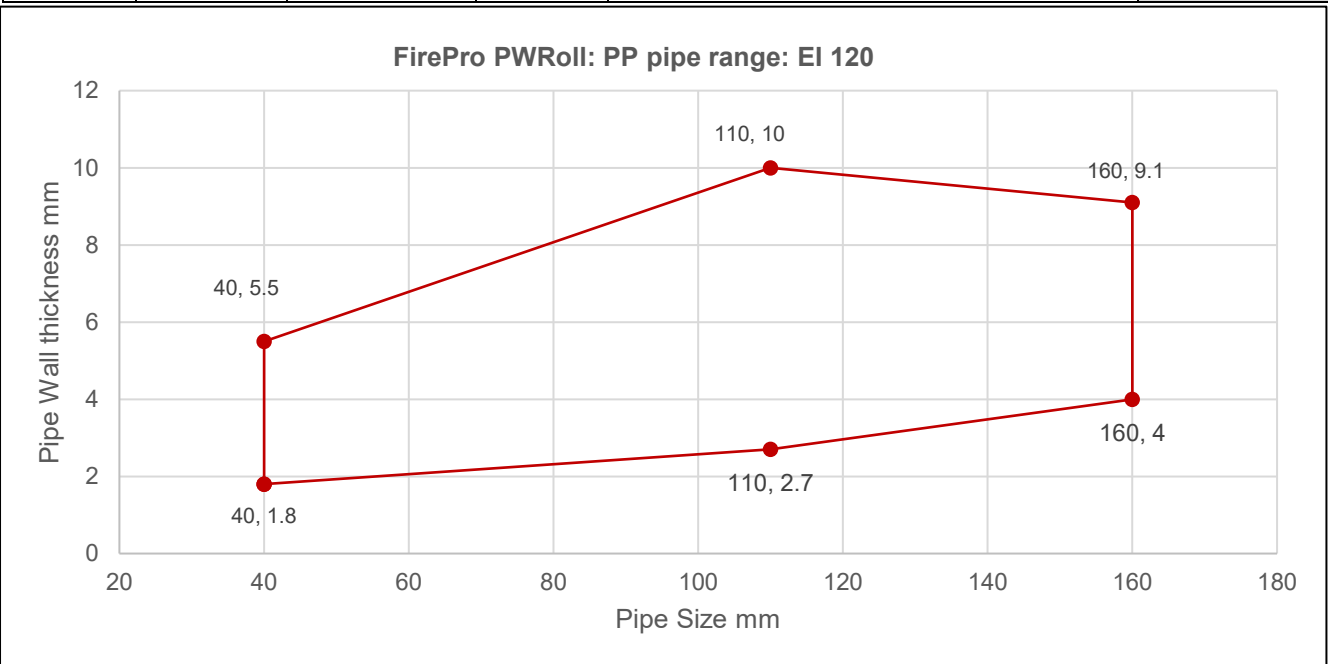
## FirePro® PWRoll seals within min 100 mm Rigid wall

### Plastic pipes

#### PP Pipes

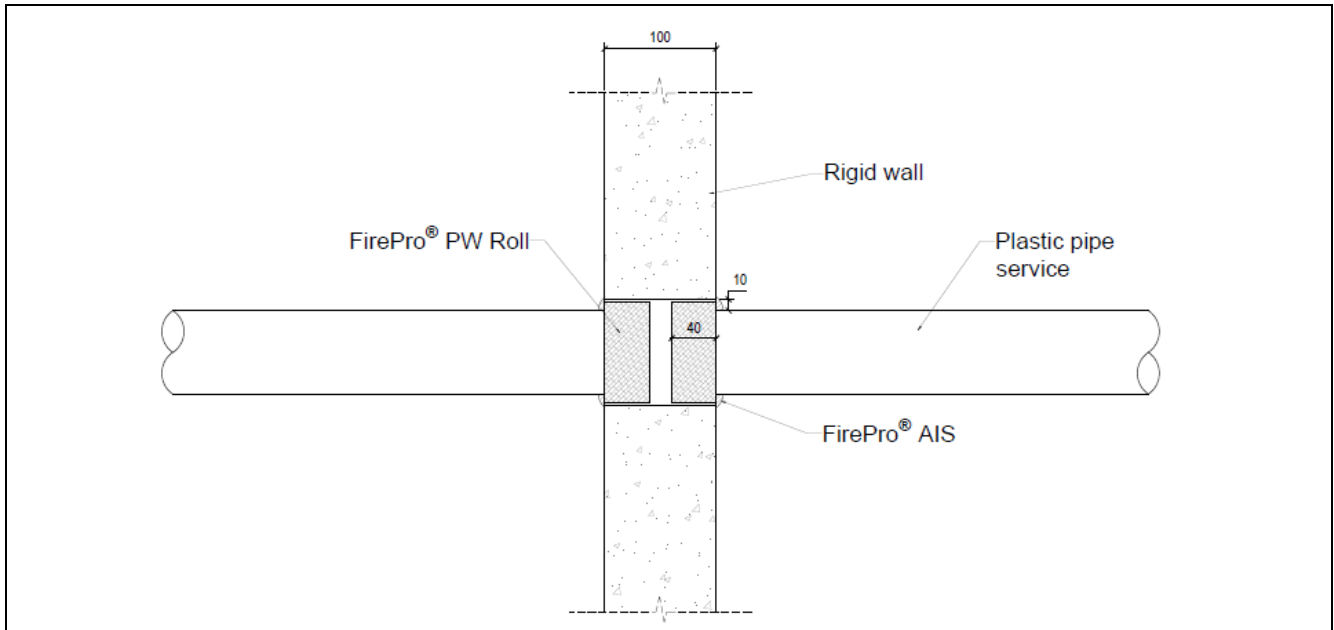


| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                     | Classification |
|----------------|------------------------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ≤40            | 1                      | 2                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the wall. A nominal bead of FirePro® AIS Sealant applied to seal any gaps. | EI 120 U/C     |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                      |                |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                      |                |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                      |                |

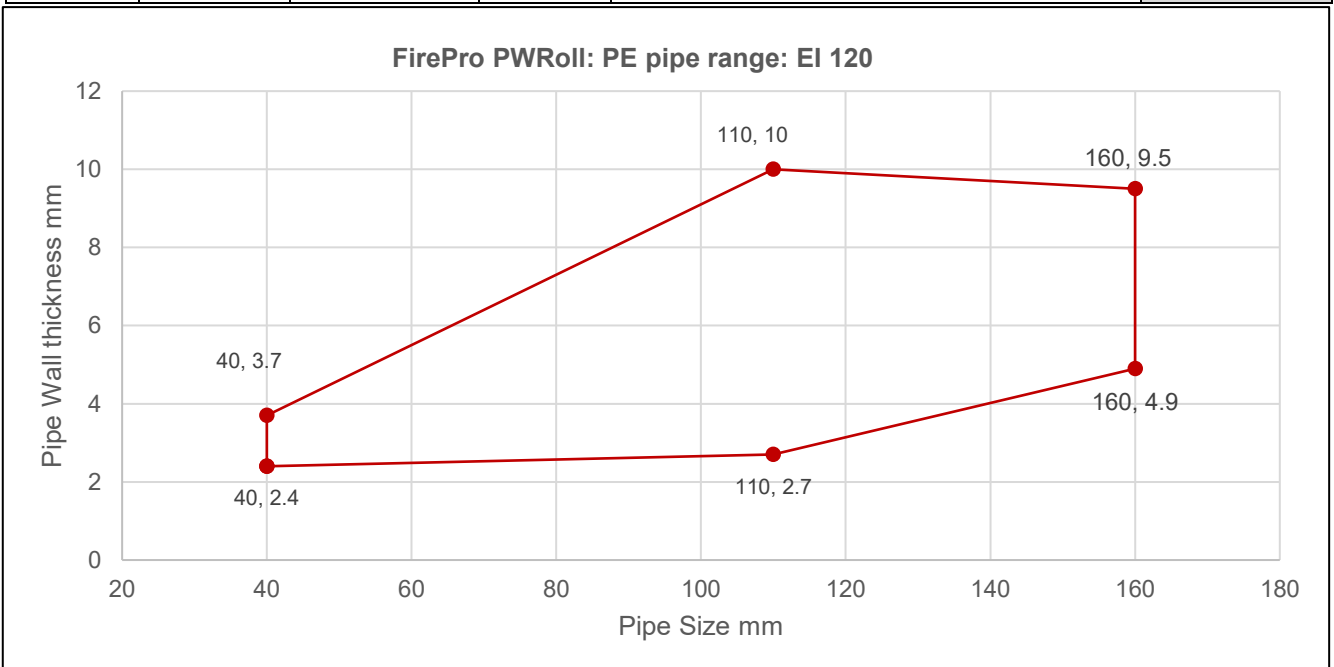


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## PE Pipes



| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                     | Classification |
|----------------|------------------------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ≤40            | 1                      | 2                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the wall. A nominal bead of FirePro® AIS Sealant applied to seal any gaps. | EI 120 U/C     |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                      |                |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                      |                |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                      |                |



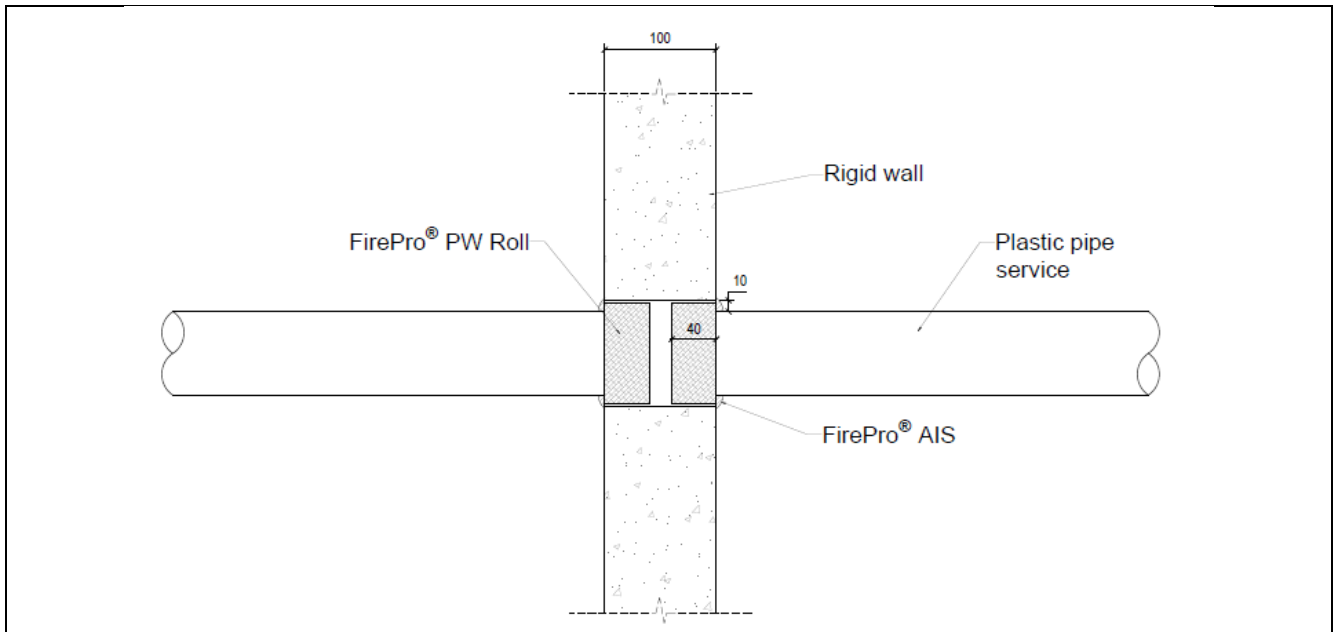
## PVC Pipes



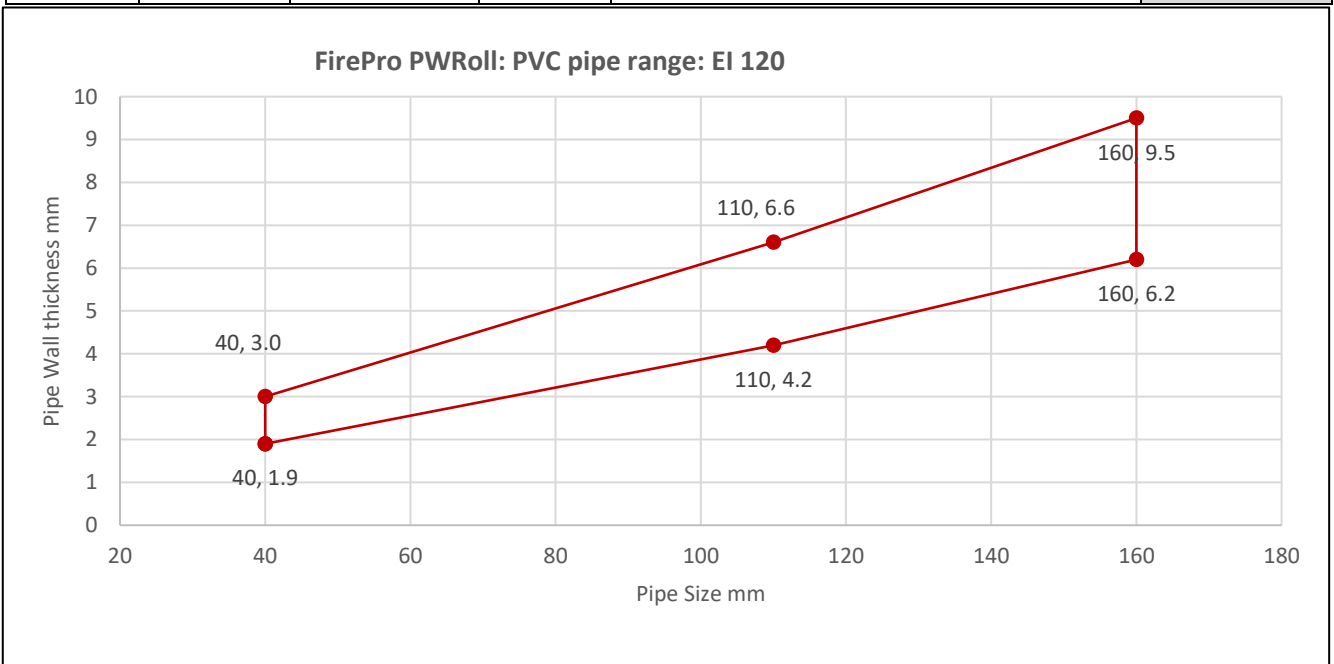
**Solutions**

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| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                     | Classification |
|----------------|------------------------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ≤40            | 1                      | 2                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the wall. A nominal bead of FirePro® AIS Sealant applied to seal any gaps. | EI 120 U/C     |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                      |                |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                      |                |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                      |                |



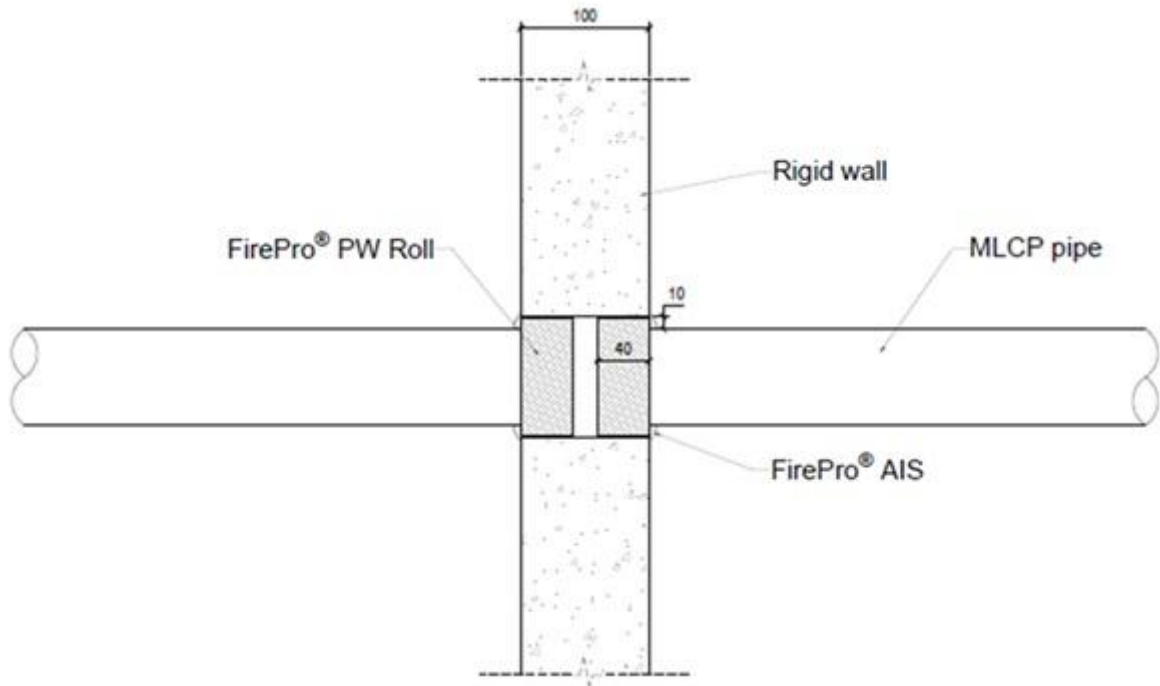
## MLCP Pipes



**Solutions**

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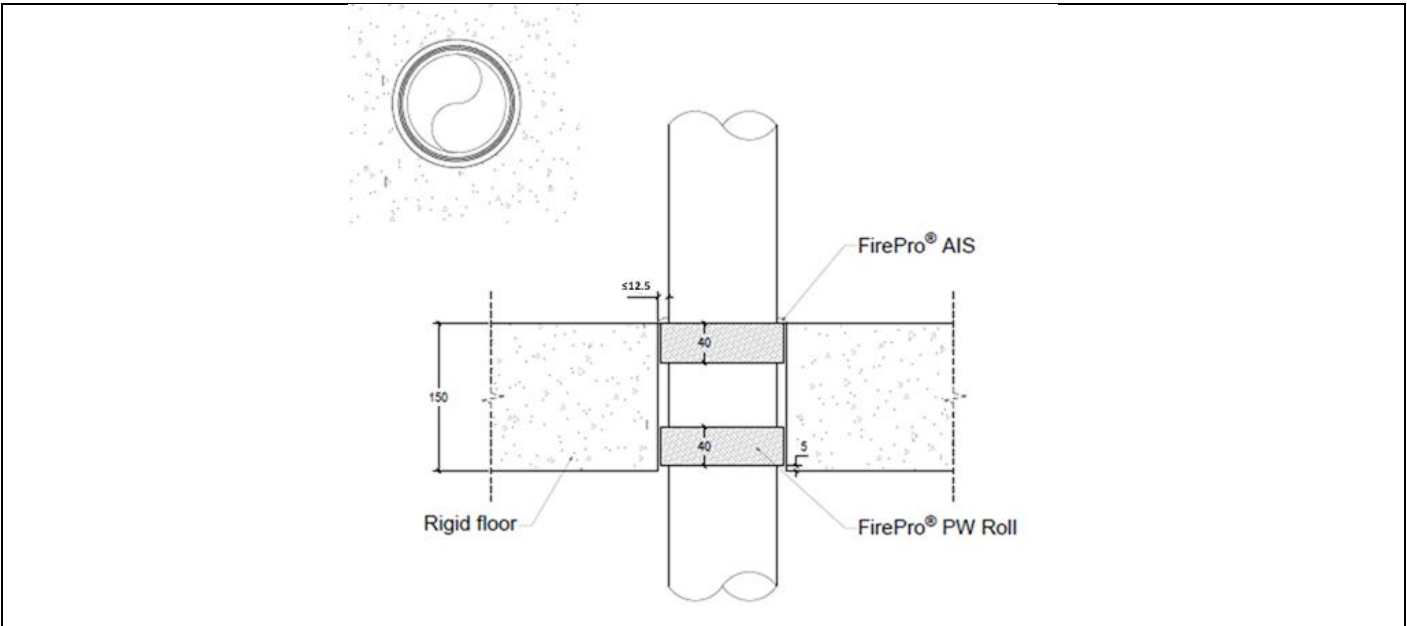
| Pipe material                           | Pipe size (mm) | Pipe wall thickness (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                     | Classification           |
|-----------------------------------------|----------------|--------------------------|------------------------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| UPONOR UNI PIPE PLUS PP-RT / AL / PP-RT | 110            | 10                       | 3                      | 6                          | ≤10              | 40 mm wide x 2 mm thick layers of PWRoll wrapped around the pipe flush with both faces of the wall. A nominal bead of FirePro® AIS Sealant applied to seal any gaps. | <b>E 120 / EI 60 U/C</b> |
|                                         | 40             | 4                        | 1                      | 2                          | ≤5.5             |                                                                                                                                                                      | <b>EI 120 U/C</b>        |



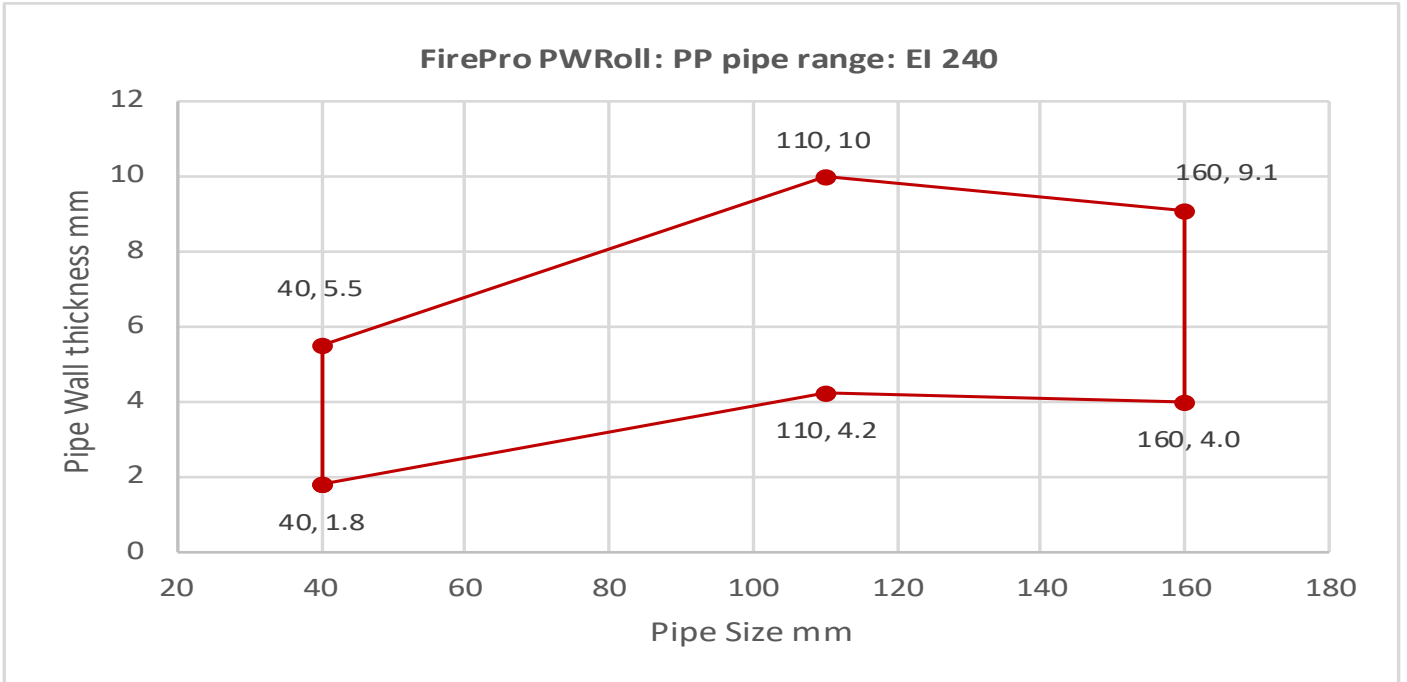
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## FirePro® PWRoll seals within min 150 mm thick rigid floor

### PP Pipes



| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                                                                            | Classification |
|----------------|------------------------|----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ≤40            | 1                      | 2                          | ≤10              | Bottom wrap installed from unexposed face of slab pushed down 5mm from the exposed face of the slab. Top wrap set 5mm from the unexposed face. FirePro AIS smoke seal applied only over the top of the wrap in the aperture | EI 240 U/C     |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                                                                             |                |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                                                                             |                |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                                                                             |                |

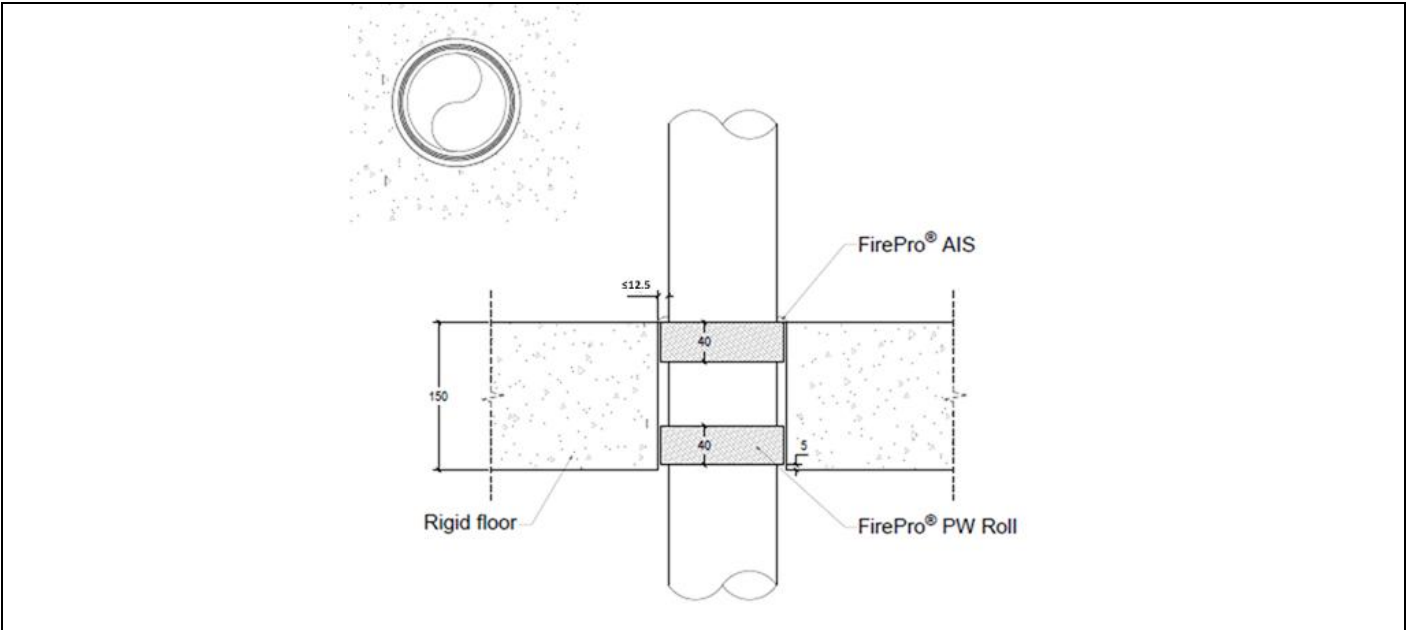


**Solutions**

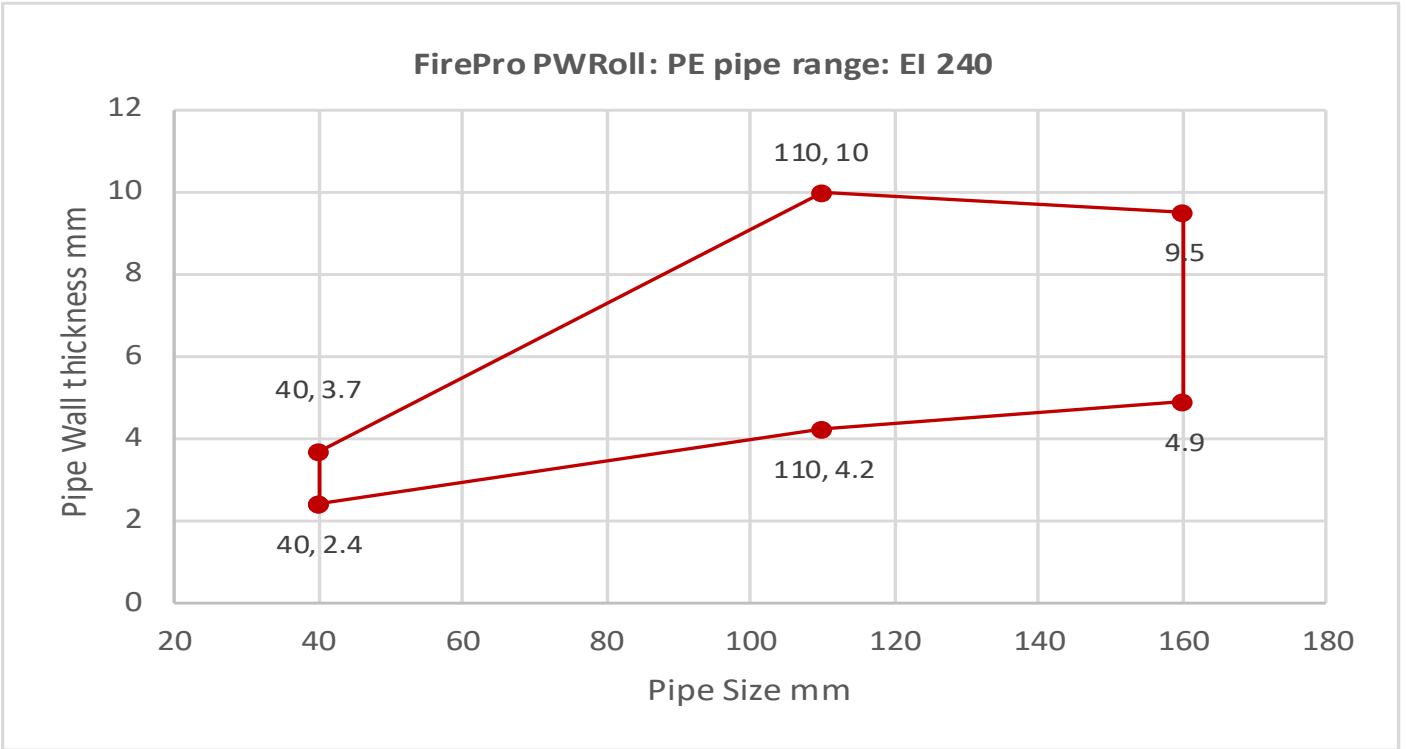
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## PE Pipes

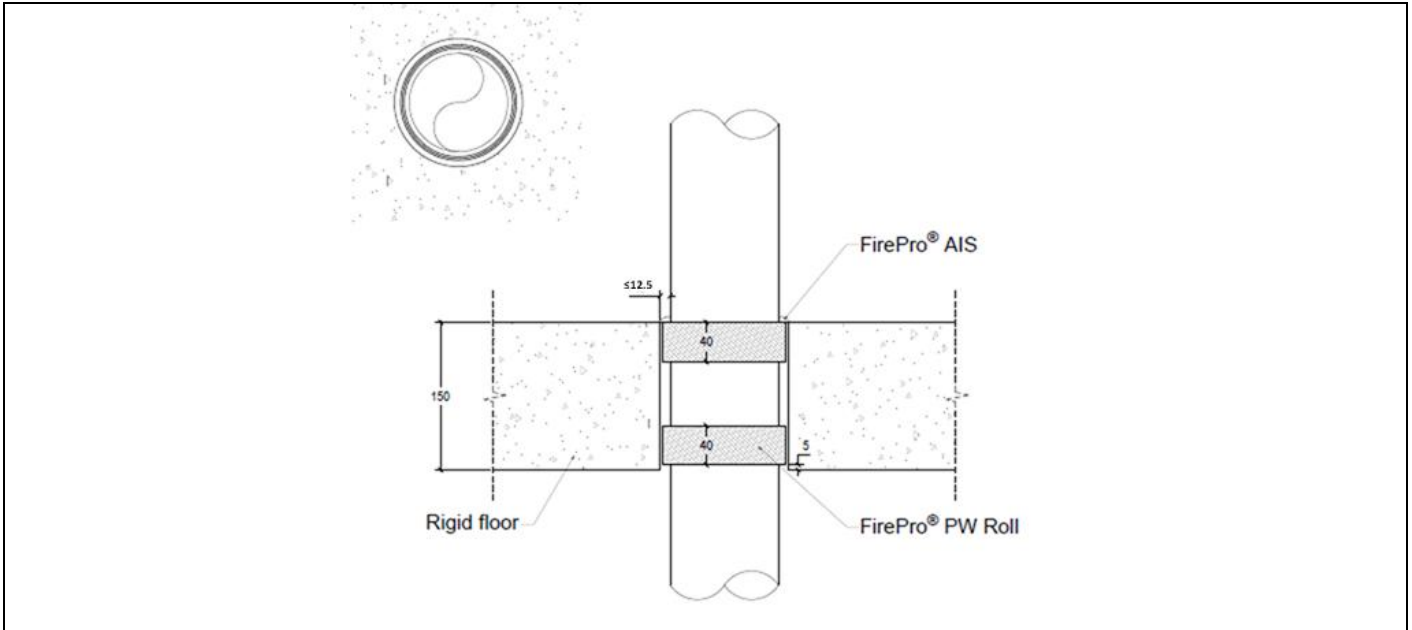


| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                                                                            | Classification |
|----------------|------------------------|----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ≤40            | 1                      | 2                          | ≤10              | Bottom wrap installed from unexposed face of slab pushed down 5mm from the exposed face of the slab. Top wrap set 5mm from the unexposed face. FirePro AIS smoke seal applied only over the top of the wrap in the aperture | EI 240 U/C     |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                                                                             |                |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                                                                             |                |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                                                                             |                |

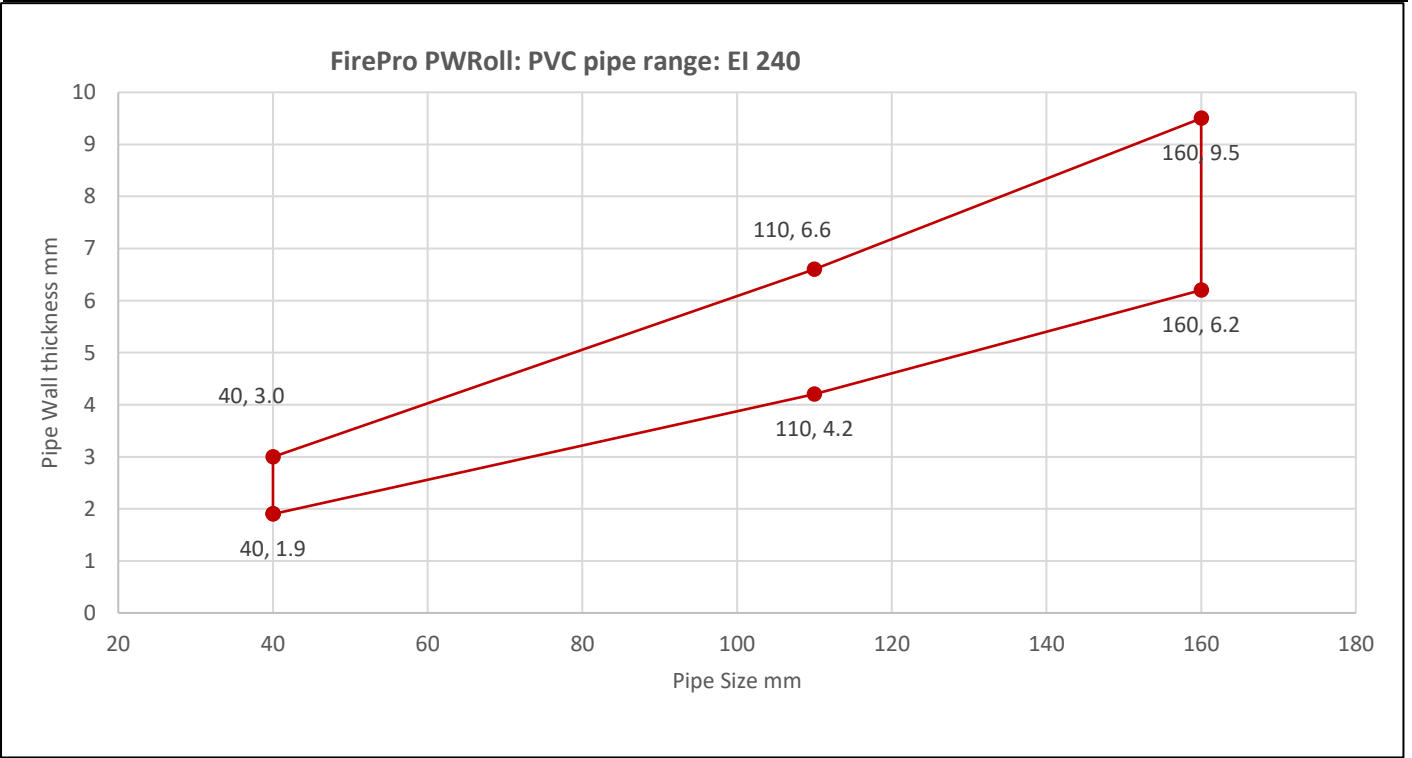


# Appendix UL-EU CERTIFICATE UL-EU-01358-EN

## PVC Pipes



| Pipe Size (mm) | Pipe Wrap layers (2mm) | Intumescent thickness (mm) | Annular gap (mm) | Seal description                                                                                                                                                                                                            | Classification |
|----------------|------------------------|----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ≤40            | 1                      | 2                          | ≤10              | Bottom wrap installed from unexposed face of slab pushed down 5mm from the exposed face of the slab. Top wrap set 5mm from the unexposed face. FirePro AIS smoke seal applied only over the top of the wrap in the aperture | EI 240 U/C     |
| 41-79          | 2                      | 4                          |                  |                                                                                                                                                                                                                             |                |
| 80-120         | 3                      | 6                          |                  |                                                                                                                                                                                                                             |                |
| 121-160        | 4                      | 8                          |                  |                                                                                                                                                                                                                             |                |



## Appendix UL-EU CERTIFICATE UL-EU-01358-EN

The UL-EU Marks, displayed below represent the enhanced and alternate version of the product marking. Either Mark can be used. These Marks shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.



\*Note: E12345 is an example of the UL file number.

The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number and UL File number are also required on that same label or nameplate. If cast, stamped or molded, the Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this UL-EU Certificate.

### PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at [www.ul.com](http://www.ul.com).



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