

Intumex® LY Collars are designed to be fixed to formwork prior to pouring concrete floor slabs. The Intumex® LY Collar accommodates the uPVC piping fitting within the soffit of the slab, creating considerable space savings.

An Intumex® LY Collar will close both the pipe and pipe fitting when exposed to fire. Intumex® LY Collars have been tested up to 240 minutes in accordance with AS 1530: Part 4 and AS 4072: Part 1 with uPVC and some types of HDPE pipes. For further information on 240 minute requirements, please refer to Tables 1, 2 & 3 in the Intumex® HY installation guidelines.

For slabs less than 120mm thick or for slabs that use lost formwork, please contact Intumex.

Intumex® LY Installation Guidelines

Table 1. Performance of Intumex® LY Collar protecting uPVC Pipes Penetrating Concrete Floor Slab

Collar Type	Nominal Pipe OD (mm)	Wall Thickness (mm)	FRL for 120mm slab	FRL for 150mm+ slabs
40mm Intumex® LY	43	2.6	-/180/120	-/180/180
50mm Intumex® LY	56	2.2 - 3.0	-/180/120	-/180/180
65mm Intumex® LY	69	2.8	-/180/120	-/180/180
80mm Intumex® LY	83	3.4	-/180/120	-/180/180
100mm Intumex® LY	110	3.4	-/180/120	-/180/180

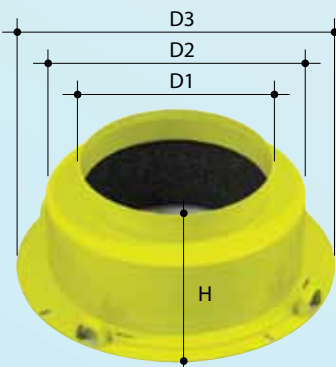
Table 2. Performance of Intumex® LY Collar protecting HDPE Pipes Penetrating Concrete Floor Slab

Collar Type	Nominal Pipe OD (mm)	Wall Thickness (mm)	FRL for 120mm slab	FRL for 150mm slab	FRL for 150mm+ slabs
40mm Intumex® LY	40	3	-/240/120	-/240/180	-/240/240
50mm Intumex® LY	50	3	-/180/120	-/180/180	-/180/180
65mm Intumex® LY	56	3	-/240/120	-/240/180	-/240/240
65mm Intumex® LY	63	3	-/120/120	-/120/120	-/120/120
100mm Intumex® LY	110	4.3	-/120/120	-/120/120	-/120/120

Dimensions guide

Collar no.	uPVC pipe nom. (mm)	Body (mm)			Flange (mm)
		H	D1	D2	D3
ILY 40	40	49 + 39*	43	115	160
ILY 50	50	49 + 39*	56	115	160
ILY 65	65	49 + 39*	69	115	160
ILY 80	80	60 + 20*	83	163	210
ILY 100	100	60 + 20*	110	163	210

*Additional height of upright pipe grip



After the formwork is removed, the casting pipe may be knocked out of the collar and replaced with the final pipe section if required.

Typical Specification

Where plastic pipes to be used for stack systems are to be fire protected, use Intumex® LY Collars as tested to AS1530: Part 4 and AS4072: Part 1 to maintain the FRL of the element. All details in accordance with the manufactures instructions. All work to be certified in an approved manner.



Installation method

Place the Intumex® LY Collar on to the formwork. Secure it into position with 20mm x 3mm flat head clouts, nailed through the slots provided. DO NOT SKEW THE NAILS.

Insert a pipe section through the Intumex® LY Collar so that the end of the pipe sits flat on the formwork, ensuring the top of the pipe is higher than the finished slab depth. Ensure the pipe section remains plumb and in place during the concrete pour and immediately afterwards.

Intumex provides a comprehensive range of fire protection systems for compartmentation, fire resistant air and cable ducts, structural steel protection, partitions and fire stopping seals. For complete professional advice, please contact your local Intumex distributor immediately.

Intumex Asia Pacific

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