

TECHNICAL DATASHEET – OPTIMAL DUCT –Pre-release- v4.0

Code and description

Castel Engineering range : Optimal duct

Ducts :

OD Optimal duct

Accessories :

ODCL Optimal duct clamp

ODFE Optimal duct flat elbow 90°

ODIC Optimal duct in-corner 90°

ODOC Optimal duct corner out 90°

ODTJ Optimal duct T-junction

ODRJ Optimal duct reducer

ODC Optimal duct connect

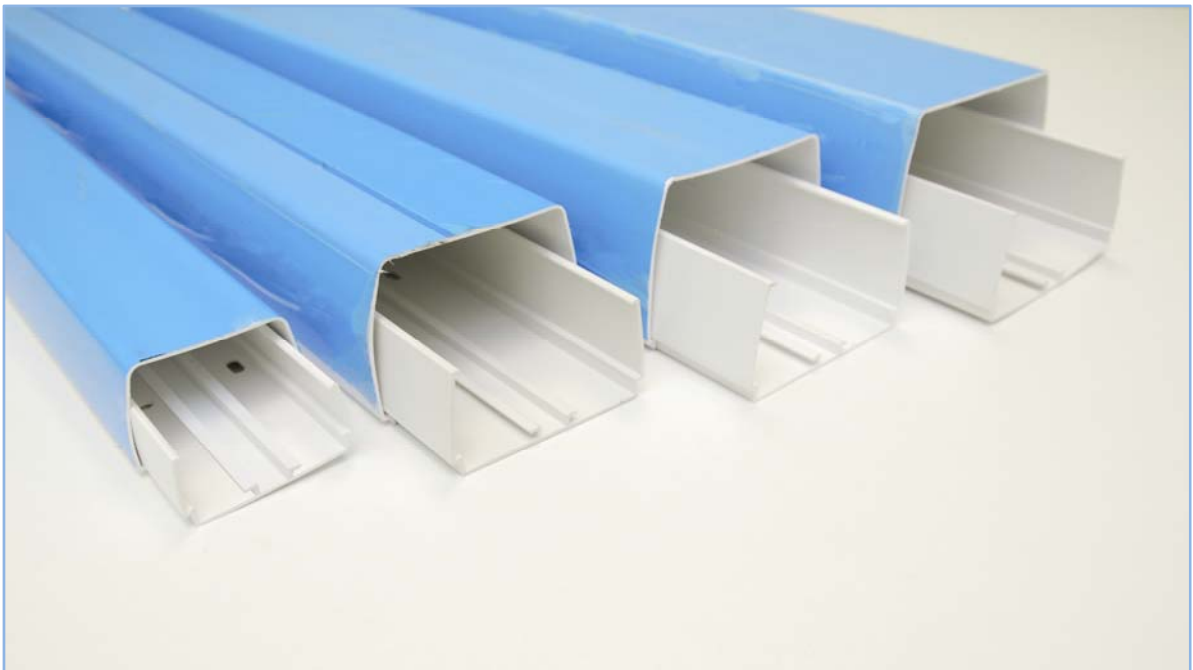
ODWR Optimal duct wall rosette

ODWC Optimal duct wall cover

ODEC Optimal duct end cap

Photos

Ducts:



Accessories:



ODWC: Optimal duct wall cover



ODC: Optimal duct connection



ODFE: Optimal duct flat elbow



ODIC: Optimal duct in-corner



ODOC: Optimal duct out-corner



ODRJ: Optimal duct reducer joint



ODWR: Optimal duct wall rosette



ODTJ: Optimal duct T-junction



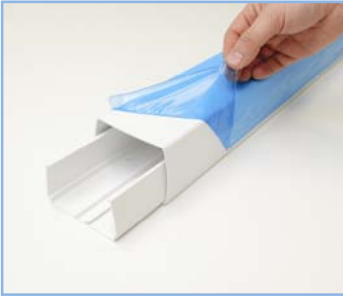
ODEC: Optimal duct end cap



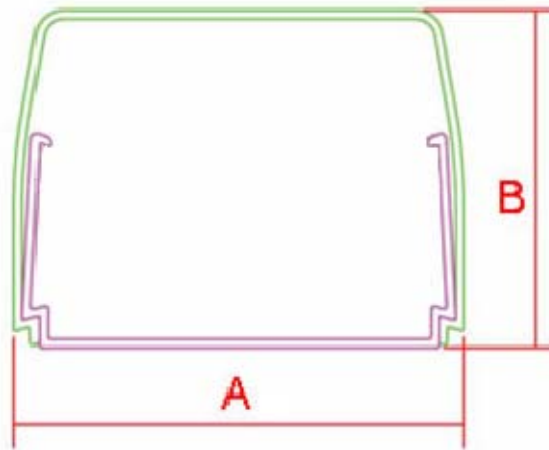
Fast-Clip: Fixation Clip

Protection film

The Optimal duct is available with a protection film on the ducts + fixation rail



Measurements



code	A (mm)	B (mm)	Length (mm)	Packing box	Code
OD.60	60	40	2000	24 lm	0505.00001.017
OD.80	80	60	2000	16 lm	0505.00101.018
OD.90	90	65	2000	16 lm	0505.00201.018
OD.110	110	75	2000	8 lm	0505.00301.019

The ducts are foreseen of a hole for bolts, every 20 cm:



Material

PVC (U.V.resistant) - Medium impact rigid extrusion grade for various profiles.

Characteristics

Relative Density	1,52	ISO 1183 (gr/cm3)
Softening	ISO 306	
Point (Vicat)	77	5 kg -Celsius
IZOD	> 7	KJ/m2; +23 C (ISO 179)
Tensile strength at yield	40,50	(N/mm2 ;ISO 527-I)
Tensile strength at break	40	(N/mm2 ;ISO 527-I)
Elongation at break	160 %	(ISO 527-I)
Elongation at yield	3,0 %	(ISO 527-I)
Elasticity module at bending	3700	(ISO 178)
Flame Retardant	94 V0	UL 94

The data given above are typical results from tests done in the laboratory.

M1 rated

Available colours: White 9003 (U.V. resistant)

Packing information

Ducts:

Code	Packing box	volume box	Packing PAL
OD.60	24m / box	205 x 18 x 17 cm	864 m
OD.80	16m / box	205 x 24 x 18 cm	384 m
OD.90	16m / box	205 x 30 x 18 cm	288 m
OD.110	8m / box	205 x 24 x 14 cm	256 m

Accessories size 60 x 40 mm:

Code	Packing bag	Packing box
ODCL60	12 pcs	360 pcs
ODC60	10 pcs	180 pcs
ODOC60	10 pcs	240 pcs
ODFE60	10 pcs	100 pcs
ODIC60	10 pcs	120 pcs
ODWC60	10 pcs	100 pcs
ODWR60	10 pcs	180 pcs
ODEC60	10 pcs	180 pcs

Accessories size 80 x 60 mm:

Code	Packing bag	Packing box
ODC80	10 pcs	120 pcs
ODOC80	10 pcs	80 pcs
ODFE80	10 pcs	40 pcs
ODIC80	10 pcs	70 pcs
ODWC80	10 pcs	50 pcs
ODWR80	10 pcs	150 pcs
ODEC80	10 pcs	120 pcs
ODRJ110-80	10 pcs	50 pcs
ODRJ80-60	10 pcs	100 pcs
ODTJ80	10 pcs	10 pcs

Accessories size 90 x 65 mm:

Code	Packing bag	Packing box
ODC90	10 pcs	80 pcs
ODOC90	10 pcs	200 pcs
ODFE90	10 pcs	10 pcs
ODIC90	10 pcs	140 pcs
ODWC90	10 pcs	140 pcs
ODWR90	10 pcs	120 pcs
ODEC90	10 pcs	80 pcs
ODRJ110-90	10 pcs	50 pcs

Accessories size 110 x 75 mm:

Code	Packing bag	Packing box
ODC110	10 pcs	180 pcs
ODOC110	10 pcs	10 pcs
ODFE110	10 pcs	10 pcs
ODIC110	10 pcs	10 pcs
ODWC110	10 pcs	10 pcs
ODWR110	10 pcs	100 pcs
ODEC110	10 pcs	10 pcs
ODTJ110	10 pcs	10 pcs