



Cable Protection

MULTIduct™



Applications:

Traffic Signals, Street Lighting, Motorways

The NAL MULTIduct™ system is an innovative duct system, used in the construction of carriageway crossings, bridge crossings and tunnel installations.

The system is manufactured from nitrogen foamed high density polyethylene, which offers a high strength to weight ratio, resulting in a product that has a high crush resistance but can be lifted by a single person.

The system is available in 2, 3, 4, 6, and 9 way formations or stacked to provide multiple duct banks. They are easily installed by connecting nominal one metre long sections together via a push fit system. MULTIduct™ can be supplied in various colours to suit individual highway applications.

Advantages

- ◇ Crush strength - the system can be installed as shallow as 300mm in the carriageway
- ◇ Speed – rapid installation with single bucket dig and simple push fit assembly
- ◇ Safety – all sections within the one man weight lift limit
- ◇ Higher duct capacity - square section enables less internal bore surface in contact with cable
- ◇ Economical – more cost effective than traditional duct installations for road crossings, shallow depths, verge installations, bridges and tunnels
- ◇ Flexible – full range of accessories to overcome bends, break out of runs and interface with standard duct
- ◇ Environmental – manufactured from 70% recycled material, and is completely recyclable
- ◇ Provide multi use road crossing points - reducing excavations in roads



A CRH COMPANY

MULTIduct™ Specification

Multiduct must be supplied in sections equivalent to 2, 4, 6, or 9 x 110mm twin wall duct.

Multiduct must be manufactured from Nitrogen foamed high density polyethylene.

Multiduct must be capable of being installed in carriageway installations with a minimum surface cover of 200mm.

Multiduct must be capable of withstanding a continuous vertical load test of 65 (kN) and a point load test of 28 (kN) as a minimum.

Multiduct must be ribbed on the outside to prevent lateral movement when installed.

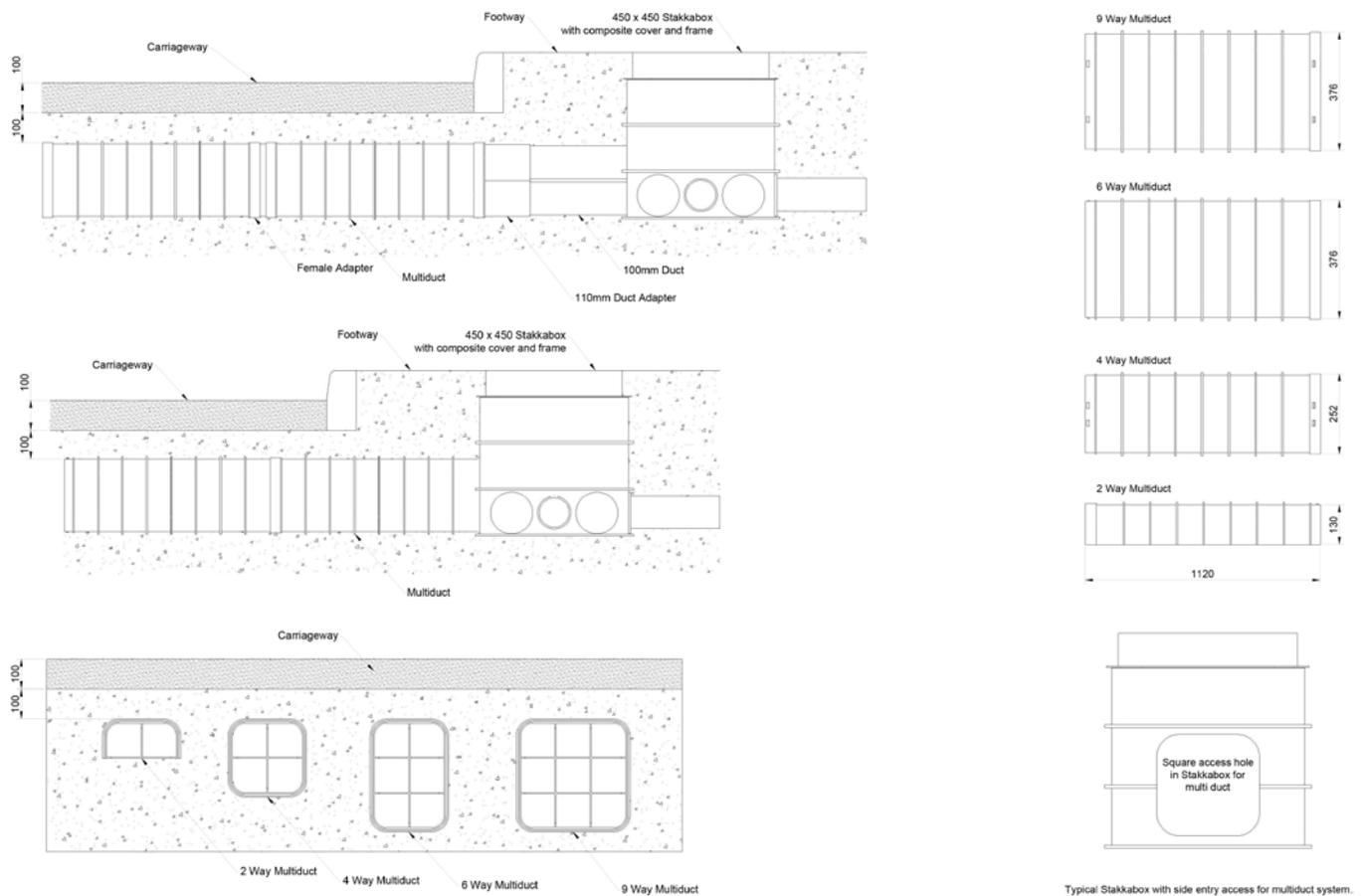
Each duct space must be equivalent to 110mm single duct and should have four distinct sides to allow for easier cable pulling due to reduced pulling forces on the cable.

Units should be connected with a push-fit mechanism with a tensile capacity of 3.69kN.

Multiduct sections must be under 20kgs in weight enabling safe manual handling by one person.

Multiduct must be completely recyclable at end of life.

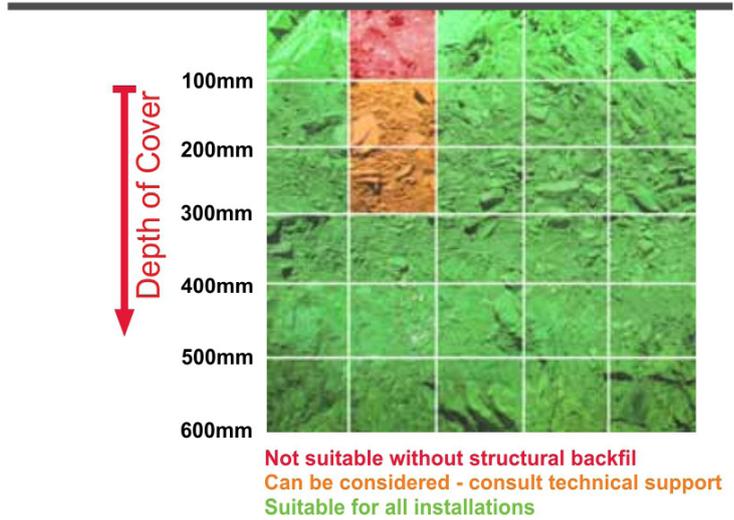
Multiduct must be supplied to the above specification by NAL Ltd or an equally approved manufacturer.



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MULTIduct™ has been extensively tested in order to determine the maximum loading on each unit section. These tests demonstrate the suitability of installing MULTIduct™ for road applications at various depths by simulating the highest possible loading, when continuously and point loaded at that depth.



Accessories

110mm duct connectors



Accessories

STAKKAbOX Access Chamber connection



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