



Standards, tolerances corrugated metal hose

standards

SITCOFLEX Corrugated Metal Hoses are manufactured in accordance with International Standard ISO 10380 – ‘Corrugated exible metallic hose and hose assemblies’.

materials & Certification

SITCOFLEX uses prime austenitic cold formed stainless steel materials in the manufacture of its corrugated hoses and wire braids in various grades meeting the following standards where nominated:-

AISI 304 - UNS No. 30400, ASTM 304, BS 304 S15, DIN 1.4301, AFNOR Z6CN 18-09, SUS 304

AISI 304L - UNS No. 30403, ASTM 304L, BS 304 S11, DIN 1.4306, AFNOR Z2CN 18-10, SUS 304L

AISI 321 - UNS No. 32100, ASTM 321, BS 321 S31, DIN 1.4541, AFNOR Z6CNT 18-12, SUS 321

AISI 316 - UNS No. 31600, ASTM 316, BS 316 S31, DIN 1.4401, AFNOR Z6CND 17-11, SUS 316

AISI 316L - UNS No. 31603, ASTM 316L, BS 316 S11, DIN 1.4435, AFNOR Z2CND 17-12, SUS 316L

SITCOFLEX obtains Mill Certificates for the stainless steel materials it purchases for the manufacture of its stainless steel corrugated hoses and wire braids. Mill Certificates are issued by the steel mill certifying the chemical composition and properties of steel produced in a particular heat run.

As a general rule we do not maintain daily trace ability of materials with hose produced, but full trace ability can be provided if requested at time of placing an order for production.

Where general Materials Certification is required, SITCOFLEX shall provide a Letter of Conformity which shall conform the grade of materials used.

tolerances

The dimensions given in the product data sheets are nominal only, and due to the methods and materials of manufacturing this product, are subject to variation.

On mechanically formed hose, the nominal bore may vary by up to 0.5mm. On hydraulically formed hose, the outside diameter can vary up to 1.00mm.

The tolerance on the overall length of a hose assembly as laid down in ISO 10380 is $-1\% + 3\%$ from the ordered length.

Note re lengths:

The length is the ex-factory length. A corrugated hose assembly will lengthen under pressure. In a controlled hydrostatic test situation, this elongation is 3-5%.

Constant rolling up and unrolling of a corrugated hose assembly on the other hand will tend to shorten it slightly.

specifications

SITCOFLEX reserves the right to change the specification of any product and/or withdraw it from its range of products without notice.