



NTEICO

# PRODUCT CATALOGUE

## SUPPORT SYSTEM SOLUTIONS

[nteico.ae](http://nteico.ae)

# WHY NTEICO?



## Customizable Solutions

Choose your preferred variant from our detailed product sheets, or contact us for specially designed solutions. We specialize in fulfilling all your solution needs, so you never have to go anywhere else.



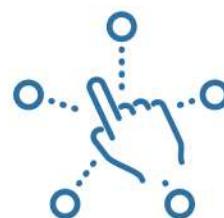
## Thoroughly Tested

All NTEICO products are certified according to the relevant standards, and are rigorously tested for premium quality. We ensure you always get the best product possible.



## International Exposure

NTEICO has maintained a healthy international presence throughout the years it has operated. We have been regular exhibitionists around the globe, building a loyal clientele everywhere we go.



## Broad Portfolio

NTEICO has engineering solutions to meet all your construction needs. Just browse through our solutions to choose what suits you best and let us know how we can help you achieve excellence.

**300+**

**PROJECTS**

**9**

**COUNTRIES**

## OUR VISION

To provide absolute support system solutions to our clients all across the world, fostering a business environment free from any sort of dependence on traditional suppliers.

## OUR MISSION

To foster the business environment which we grow in by providing a portfolio of absolute pipe support solutions to all those who seek them, through our reliable staff and efficient processes.

## OUR STORY

NTEICO can be traced back to humble beginnings when in 1989 the company started operating on a modest scale. NTEICO quickly established itself as a reliable provider of quality services in the fields of MEP service and operation, and maintenance contracts. The company continued to deliver excellence in the form of high-quality projects for various clients.

Since our inception, we have placed emphasis on operating while keeping our core values in mind. As we grow and evolve as a company, our core values remain the same and dictate our growth. NTEICO has never rested on its laurels. Staying true to its culture of growth and innovation, the company diversified its portfolio in 2005 when it started the production of Fire Hose Cabinets (FHC) by Red Box-NTEICO in Saudi Arabia. Through continuous study and development of the FHC, NTEICO was soon able to establish its very own FHC manufacturing plant in the country. By 2012, the company had started work on its manufacturing plant across the border, in the United Arab Emirates. This plant now specializes in the production of HVAC products, through the integration of state-of-the-art machinery and innovative processes.

With the help of the best Plasma Cutting, Duct and Roll Forming machines the market has to offer, NTEICO has established clientele all across the Middle East and the Gulf Region. NTEICO Duct Products are well accepted all across the Middle East and Africa.

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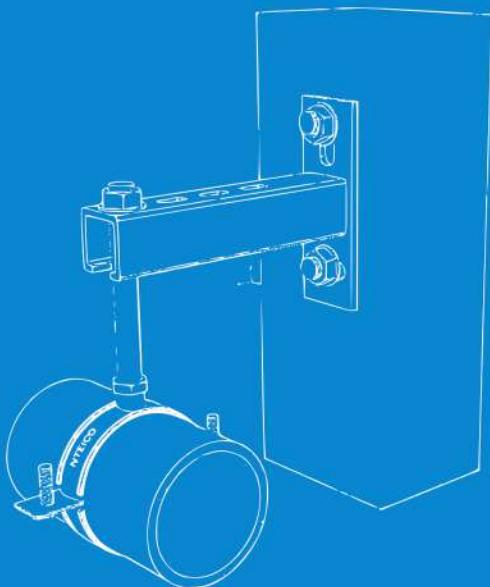
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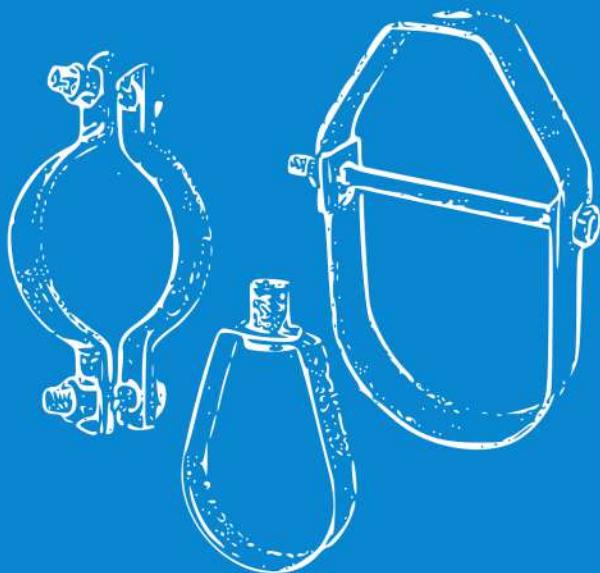
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A

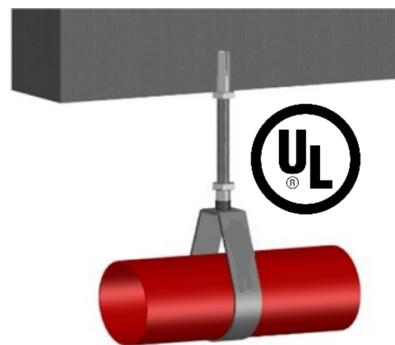
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# PIPE SUPPORT SYSTEM



## A PIPE CLAMPS

### Swivel Clamp

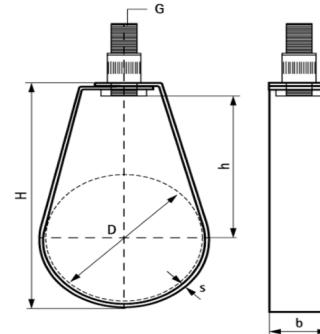


#### Product Features

- A one-piece clip ensures higher load capacity.
- Used for installing sprinkler and firefighting pipes.
- Simple tool-free mounting.
- Locking mechanisms make pre-mounting simple.

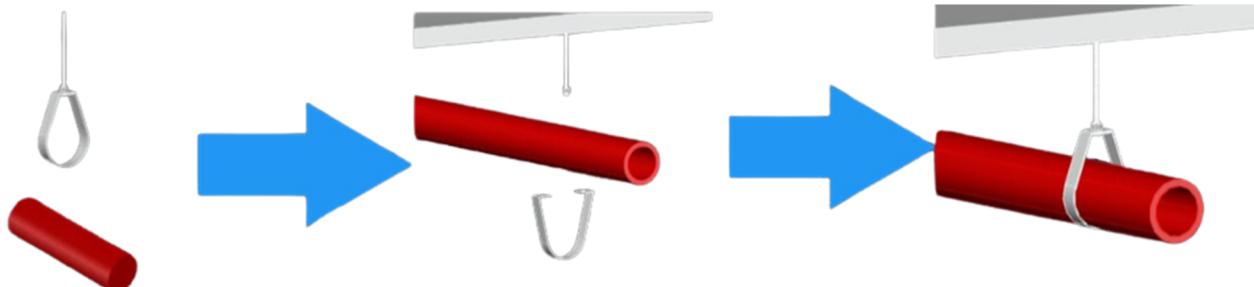
#### Technical Specifications

- Materials: Carbon Steel
- Designed to meet MSS SP-58 Type-10
- Designed to meet MSS SP-58 Type-10
- Electrogalvanized as per ASTM B 633 Standards.
- Hot dipped galvanized and stainless-steel options for adverse corrosive (C4 and higher) atmospheric conditions available.



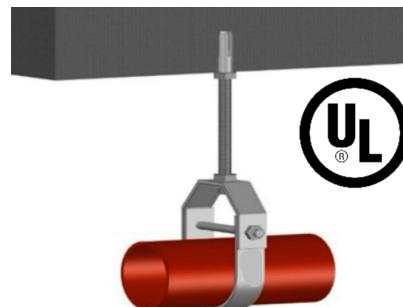
Part No	Size (Inches)	D (mm)	G	Std. Strip size (mm)	H (mm)	Safe load (kN)	Break load (kN)	No of pcs/box
NT-028-SW1	¾"	28	M10	1.5x20	61	7.5	22.5	400
NT-035-SW1	1"	35	M10	1.5x20	68	7.5	22.5	300
NT-042-SW1	1 ¼"	42	M10	1.5x20	75	7.5	22.5	250
NT-048-SW1	1 ½"	48	M10	1.5x20	81	7.5	22.5	200
NT-060-SW1	2"	60	M10	1.5x20	100	7.5	22.5	180
NT-075-SW1	2 ½"	75	M10	2x32	120	10	30	75
NT-090-SW1	3"	90	M10	2x32	135	10	30	60
NT-100-SW1	3 ½"	100	M10	2x32	150	10	30	40
NT-115-SW1	4"	115	M10	2.5x32	165	14	30	40
NT-140-SW1	5"	140	M10	2.5x40	195	18	54	25
NT-168-SW1	6"	168	M10	2.5x40	230	21	63	20
NT-219-SW1	8"	219	M10	3x50	290	28	84	10
NT-273-SW1	10"	273	M10	3x50	315	35	105	8

#### Method of Installation:



## A PIPE CLAMPS

### Clevis Hanger

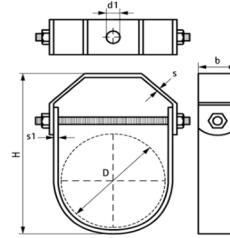


#### Product Features

- Created especially for fire suppression and chilled water systems.
- The pipe's design allows for vertical adjustment following installation.
- To guarantee optimal hanger function, the hanger load nut above Clevis must be tightened down firmly.

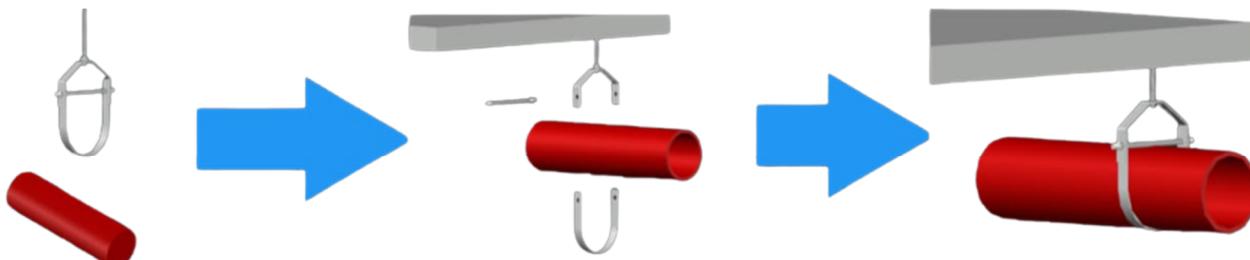
#### Technical Specifications

- Materials: Carbon Steel.
- Designed to meet MSS SP-58 Type-1
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake Coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.



Part No	Size (Inches)	Upper Steel (mm)	Lower Steel (mm)	Rod size (mm)	Bolt size (mm)	H (mm)	D (mm)	Max load (kN)	No of Pcs/box
NT-022-CH1	1/2"	2 x 25	2 x 25	10	8	70	22	6.1	450
NT-028-CH1	3/4"	2 x 25	2 x 25	10	8	76	28	6.1	400
NT-035-CH1	1"	2 x 25	2 x 25	10	8	82	35	7.3	350
NT-040-CH1	1-1/4"	2.5x 25	2.5 x 25	10	8	92	42	7.3	300
NT-048-CH1	1-1/2"	2.5x 25	2.5 x 25	10	8	100	48	7.3	250
NT-060-CH1	2"	2.5x 25	2.5 x 25	10	10	117	60	7.3	200
NT-075-CH1	2-1/2"	3 x 25	3 x 25	12	10	146	73	13.5	200
NT-090-CH1	3"	3 x 25	3 x 25	12	10	155	89	13.5	125
NT-100-CH1	3-1/2"	3 x 25	3 x 25	12	10	173	105	13.5	125
NT-115-CH1	4"	5 x 32	3 x 32	12	10	198	115	14.3	125
NT-140-CH1	5"	5 x 32	4 x 32	16	12	232	140	14.3	100
NT-168-CH1	6"	5 x 38	4 x 38	16	12	266	168	19.4	100
NT-219-CH1	8"	6 x 38	4 x 38	16	12	338	219	20	100
NT-273-CH1	10"	6 x 38	5 x 38	16	16	419	273	36	60
NT-323-CH1	12"	9 x 50	6 x 50	20	20	490	323	38	75

#### Method of Installation:



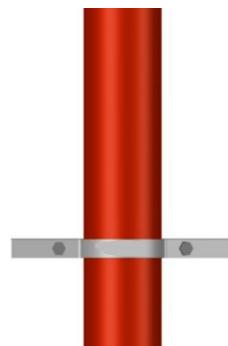
## A PIPE CLAMPS

### Riser Clamp



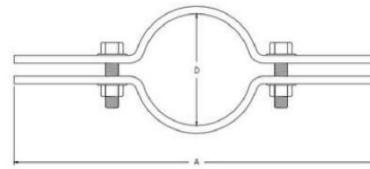
#### Product Features

- Designed to act as a rigid support or guide for vertical pipes.
- Suitable for use with all types of pipes.



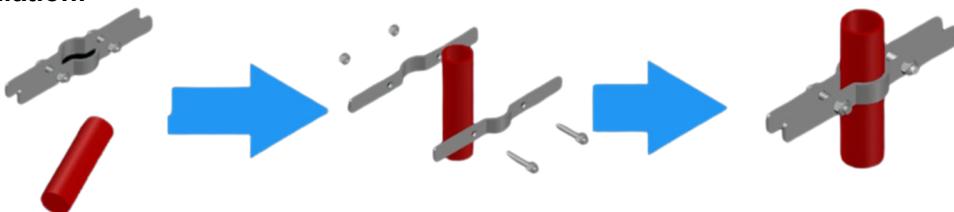
#### Technical Specifications

- Material: Carbon Steel.
- Designed to meet MSS SP-58-2002 Type-8.
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake Coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.



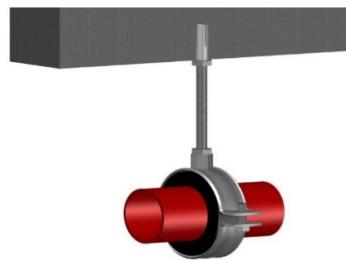
Part No.	D (inches)	Length (mm)	Metal Size (mm)	Bolt Size (mm)	Max Load (kN)
NT-022-RC1	1/2"	200	5 x 25	10	11.3
NT-028-RC1	3/4"	210	5 x 25	10	11.3
NT-035-RC1	1"	230	5 x 25	10	11.3
NT-040-RC1	1-1/4"	260	5 x 25	10	11.3
NT-048-RC1	1-1/2"	260	5 x 25	10	11.3
NT-060-RC1	2"	260	5 x 25	10	11.3
NT-075-RC1	2-1/2"	290	6 x 25	12	17.3
NT-090-RC1	3"	290	6 x 25	12	23.5
NT-100-RC1	3-1/2"	330	6 x 32	12	29.8
NT-115-RC1	4"	330	6 x 32	12	36.
NT-140-RC1	5"	350	6 x 40	16	51.60
NT-168-RC1	6"	380	6 x 40	16	69.80
NT-220-RC1	8"	470	9 x 40	16	111.20
NT-273-RC1	10"	520	9 x 50	16	111.20
NT-323-RC1	12"	580	12x 50	16	120.10
NT-355-RC1	14"	610	12 x 50	16	120.10
NT-406-RC1	16"	660	16 x 60	20	129.00
NT-457-RC1	18"	710	16 x 60	20	129.00
NT-508-RC1	20"	760	16 x 60	20	129.00
NT-610-RC1	24"	880	16 x 60	20	129.00

#### Method of Installation:



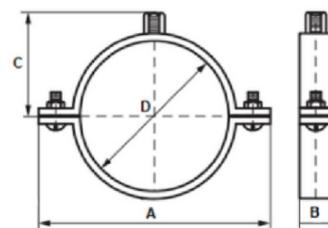
## A PIPE CLAMPS

### Split Clamp



#### Product Features

- Strengthened lock bolts for high load capacity.
- Temperature range: - 20C to 110C.
- Lock bolts with combination of cross recessed head.
- Grooved construction for added strength.



#### Technical Specifications

- Welded Nut M8/M10 with option of M10/MI2.
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake Coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available

Part No	Pipe Size (Inches)	D (mm)	D Range (mm)	Dimension (mm)			Bolt Size	Nut Size	Safe Load (kN)	Break Load (kN)	No of pcs/box
				A	B	C					
NT-018-SC1	3/8"	15	15-19	60	1.2 X 20	26	M5X 16	M8/M10	1.5	4.5	450
NT-020-SC1	11/2"	22	20-25	65	1.2 X 20	29	M5X 16	M8/M10	1.5	4.5	400
NT-028-SC1	3/4"	28	26-30	70	1.2X 20	32	M5X 16	M8/M10	1.5	4.5	350
NT-035-SC1	1"	35	32-36	85	1.2X 20	36	M5X 16	M8/M10	1.5	4.5	300
NT-040-SC1	1-1/4"	42	38-43	92	1.2X 20	39	M5X20	M8/M10	1.5	4.5	250
NT-048-SC1	1-1/2"	48	47-51	98	1.2 X 20	42	M5X20	M8/M10	1.5	4.5	200
NT-054-SC1	-	54	53-58	104	1.2 X 20	45	M6 X 20	M8/M10	1.5	4.5	200
NT-060-SC1	2"	60	60-64	110	1.2 X 20	48	M6 X 20	M8/M10	1.5	4.5	125
NT-063-SC1	-	63	63-66	115	1.2X 20	51	M6X20	M8/M10	1.5	4.5	125
NT-070-SC1	-	70	68-72	120	1.5 X 20	53	M6X20	M8/M10	1.5	4.5	125
NT-075-SC1	2-1/2"	15	74-80	125	1.5X20	56	M6X20	M8/M10	2	6	100
NT-083-SC1	-	83	81-86	139	1.5 X 20	60	M6 X 20	M8/M10	2	6	100
NT-090-SC1	3"	90	87-92	146	1.5 X 20	63	M6X20	M8/M10	2	6	100
NT-100-SC1	3-1/2"	100	99-105	156	2.0 X 20	68	M6X20	M8/M10	2	6	80
NT-110-SC1	-	110	107-112	166	2.0 X 20	73	M6X20	M8/M10	2	6	75
NT-115-SC1	4"	115	113-118	171	2.0 X 20	76	M6X20	M8/M10	2	6	70
NT-125-SC1	-	125	125-130	181	2.0 X 20	81	M6X20	M8/M10	2	6	70
NT-133-SC1	-	133	131-137	184	2.0 X 20	85	M6X20	M8/M10	2	6	50
NT-140-SC1	5"	140	138-142	196	2.0X 20	88	M6X20	M8/M10	2	6	50
NT-150-SC1	-	150	148-153	206	2.0X 20	93	M6X20	M8/M10	2	6	50
NT-160-SC1	-	160	158-166	216	2.0 X 20	98	M6X20	M8/M10	2	6	50
NT-168-SC1	6"	168	168-172	224	2.0 X 20	102	M6X20	M8/M10	2	6	50
NT-200-SC1	-	200	200-212	256	2.0 X 20	118	M6X20	M8/M10	3	9	50
NT-220-SC1	8"	220	215-220	276	2.0 X 20	128	M6X20	M8/M10	3	9	40

#### Method of Installation:



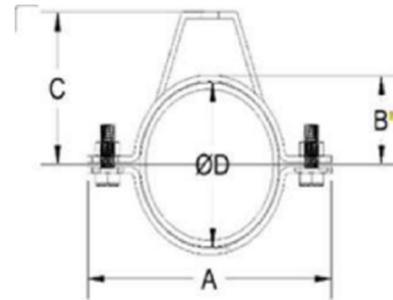
## A PIPE CLAMPS

### Yoke Clamp



#### Product Features

- Yoke Clamps for steel pipe are used in conjunction with threaded components and nuts to clamp and suspend pipework.
- Easily height adjustable.
- Medium duty clamp comes in durable hot dipped galvanized finish with hex head bolts and nuts.



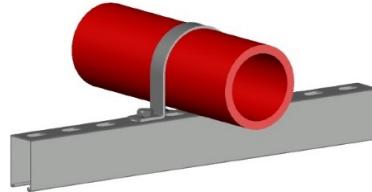
#### Technical Specifications

- Material: Carbon Steel ASTM A36
- Design to meet MSS Standard SP-58-2002
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.

Part No.	Pipe D(mm)	A(mm)	B(mm)	C(mm)	WXT (mm)	Mass (kg)
NT-YC-22H	1/2"	76	8	41	20x3	0.13
NT-YC-28H	3/4"	82	11	45	20x3	0.14
NT-YC-35H	1"	90	14	50	20x3	0.15
NT-YC-40H	1-1/4"	98	19	55	20x3	0.16
NT-YC-48H	1-1/2"	104	21	5	20x3	0.17
NT-YC-60H	2"	116	27	70	20x3	0.2
NT-YC-75H	2-1/2"	132	35	79	20x3	0.22
NT-YC-90H	3"	115	41	86	20x3	0.24
NT-YC-115H	4"	170	54	100	25x3	0.34
NT-YC-140H	5"	212	67	117	25x3	0.68
NT-YC-168H	6"	240	81	132	25x3	0.77

## A PIPE CLAMPS

### U- Strap Clamp

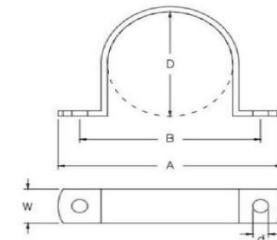


#### Product Features

- Used to mount plain or insulated pipes.
- Can be used with rubber support inserts.

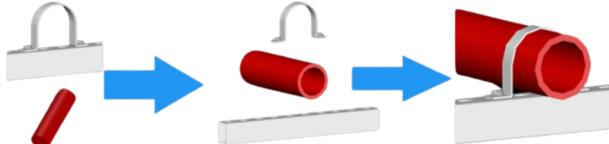
#### Technical Specifications

- Material: Mild Steel.
- Designed to meet MSS SP-58 Type-26.
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake Coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.



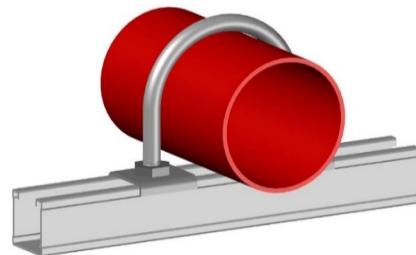
Part No	D (Inches)	Dimensions (mm)			Bolt Size	Standard Strip size	Max Load (kN)
		D	A	B			
NT-022-US1	1/2"	22	76	51	8	2 x 25	5.5
NT-028-US1	3/4"	28	82	57	8	2 x 25	5.5
NT-035-US1	1"	35	89	64	8	2 x 25	5.5
NT-040-US1	-	42	96	72	8	2 x 25	5.5
NT-048-US1	-	48	102	77	8	2 x 25	5.5
NT-054-US1	-	54	108	83	8	2 x 25	5.5
NT-060-US1	2"	60	114	89	8	2 x 25	5.5
NT-067-US1	-	67	121	96	8	2 x 25	5.5
NT-075-US1	2-1/2"	75	145	113	8	2 x 25	6.5
NT-082-US1	-	82	152	120	10	2 x 25	6.5
NT-090-US1	3"	90	160	128	10	2 x 25	6.5
NT-100-US1	3-1/2"	100	170	138	10	2 x 25	6.5
NT-108-US1	-	108	178	146	10	2 x 25	6.5
NT-115-US1	4"	115	185	151	10	3 x 25	6.5
NT-126-US1	-	126	196	164	10	3 x 25	6.5
NT-140-US1	5"	140	210	178	10	3 x 25	6.5
NT-148-US1	-	148	218	186	10	3 x 25	6.5
NT-155-US1	-	155	225	193	10	3 x 25	6.5
NT-168-US1	6"	168	237	205	10	3 x 25	6.5
NT-179-US1	-	179	249	217	10	3 x 25	6.5
NT-190-US1	-	190	260	225	10	3 x 25	9
NT-205-US1	-	205	275	243	10	3 x 25	9
NT-219-US1	8"	219	289	257	10	3 x 25	9
NT-230-US1	-	230	300	268	10	3 x 25	9
NT-241-US1	-	241	332	291	12	3 x 25	13.5
NT-263-US1	-	263	354	313	12	3 x 25	13.5
NT-273-US1	10"	273	364	323	12	3 X 25	13.5
NT-295-US1	-	295	386	345	12	3 X 38	13.5
NT-323-US1	12"	323	414	373	12	3 X 38	13.5

#### Method of Installation:



## A PIPE CLAMPS

### U Bolt

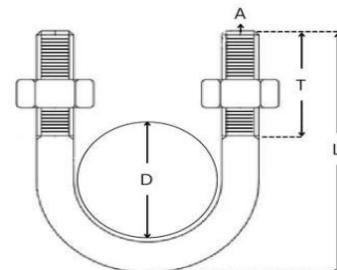


#### Product Features

- High load capacity due to one-piece design.
- Supplied with two or four nuts.
- Special U Bolts with longer tangents and threads can be furnished on request.

#### Technical Specifications

- Material: Mild Steel.
- Designed to meet MSS SP-58-2002 Type-24.
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake Coating (as per ASTM F1136) options for adverse corrosive (C4 and higher) atmospheric conditions available.



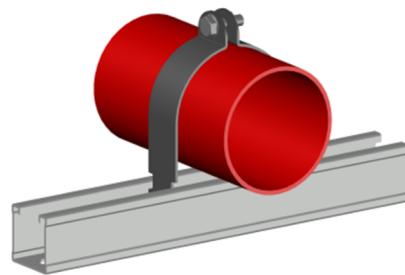
Part No	D (Inches)	Dimension (mm)			T	Max Load (kN)
		A	D	L		
NTI44022-L	1/2"	10	21	65	50	65
NTI44028-L	3/4"	10	27	77	50	65
NTI44035-L	1"	10	34	85	50	65
NTI44042-L	1-1/4"	10	43	93	50	65
NTI44048-L	1-1/2"	10	48	100	50	65
NTI44060-L	2"	10	60	110	50	65
NTI44075-L	2-1/2"	12	76	127	50	95
NTI44090-L	3"	12	89	140	50	95
NTI44115-L	4"	12	115	165	50	95
NTI44140-L	5"	12	140	195	50	95
NTI44168-L	6"	12	168	220	50	95
NTI44219-L	8"	16	219	295	75	180
NTI44273-L	10"	20	273	370	100	280
NTI44324-L	12"	20	324	420	100	280
NTI44356-L	14"	20	356	455	100	280
NTI44406-L	16"	20	406	505	100	280
NTI44457-L	18"	24	457	555	100	400
NTI44508-L	20"	24	508	506	100	400
NTI44610-L	24"	24	610	710	100	400

#### Method of Installation:



## A PIPE CLAMPS

### Strut Clamp

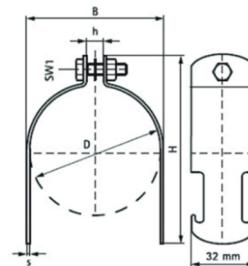


#### Product Features

- Two-part clamp
- Used for direct fixing of pipes to struts

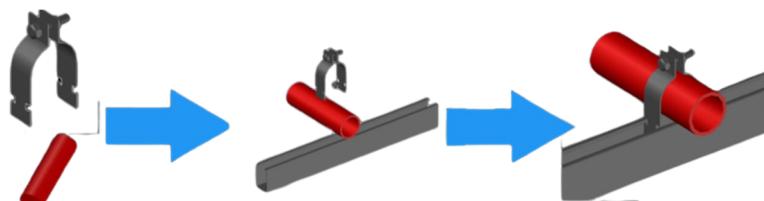
#### Technical Specifications

- Material: Steel
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake coating (as per ASTM F1136) options for adverse corrosive (C4 and higher) atmospheric conditions available.



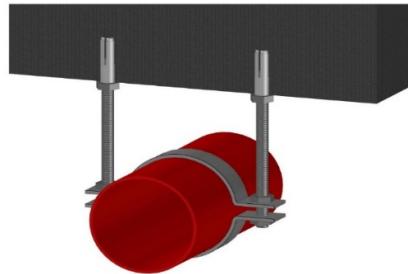
Part No.	Pipe Size (mm)	D (mm)	B (mm)	H (mm)	h2 (mm)	s (mm)	k (mm)	Pcs/box
<b>NT-STCL1- 022</b>	½	15	25	58	10.0	1.5	10	100
<b>NT-STCL1- 030</b>	¾	20	33	67	10.0	1.5	10	100
<b>NT-STCL1- 035</b>	1	25	38	72	10.0	1.5	10	100
<b>NT-STCL1- 045</b>	1¼	32	48	82	10.0	1.5	10	100
<b>NT-STCL1- 050</b>	1½	40	54	88	10.0	2.0	13	100
<b>NT-STCL1- 065</b>	2	50	69	103	10.0	2.0	13	100
<b>NT-STCL1- 080</b>	2½	65	84	118	10.0	2.0	13	50
<b>NT-STCL1- 090</b>	3	80	94	128	10.0	2.0	13	50
<b>NT-STCL1- 120</b>	4	100	125	163	15.0	2.5	17	50
<b>NT-STCL1- 140</b>	5	125	145	183	15.0	2.5	17	25
<b>NT-STCL1- 170</b>	6	150	176	214	15.0	3.0	17	25
<b>NT-STCL1- 225</b>	8	200	231	269	15.0	3.0	17	25

#### Method of Installation:



## A PIPE CLAMPS

### Two Bolt Clamp

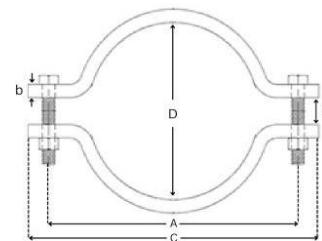


#### Product Features

- Designed to provide a strongly built support for heavy pipes
- Two bolts provide strong support

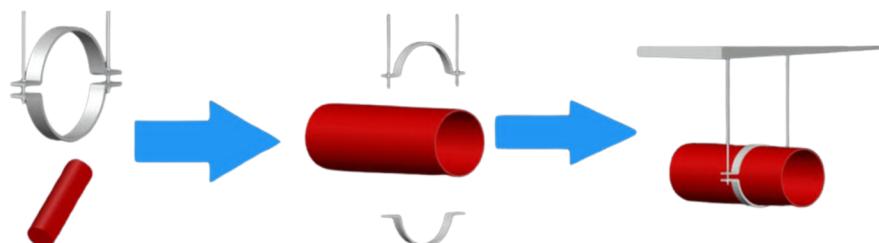
#### Technical Specifications

- Designed to meet MSS SP-58 Type 4.
- Electrogalvanized as per ASTM B633.
- Hot-dip galvanized as per ASTM A123.
- Stainless Steel options and Superior Zinc Flake coating (as per ASTM F1136) options for adverse corrosive (C4 and higher) atmospheric conditions available.



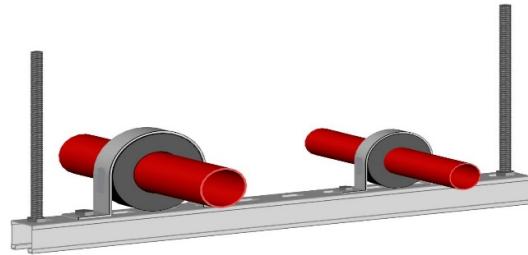
Part No	D	Bolt Size	B (mm)	A (mm)	C (mm)	S (mm)
NT-022-TB	1/2"	M10	25 x 5	68	97	12
NT-028-TB	3/4"	M10	25 x 5	76	105	12
NT-035-TB	1"	M10	25 x 5	84	113	12
NT-040-TB	1-1/4"	M10	25 x 5	92	121	12
NT-048-TB	1-1/2"	M10	25 x 5	98	127	12
NT-060-TB	2"	M10	25 x 5	116	156	16
NT-075-TB	2-1/2"	M12	25 x 6	142	182	16
NT-090-TB	3"	M12	25 x 6	156	196	16
NT-100-TB	3-1/2"	M12	25 x 6	168	208	19
NT-115-TB	4"	M12	25 x 6	180	220	19
NT-140-TB	5"	M16	40 x 6	214	252	19
NT-168-TB	6"	M16	40 x 6	242	290	22
NT-220-TB	8"	M16	40 x 6	300	352	25
NT-273-TB	10"	M16	50 x 9	358	406	25
NT-323-TB	12"	M20	60 x 12	430	490	25
NT-355-TB	14"	M20	60 x 12	480	546	28
NT-406-TB	16"	M20	65 x 16	532	597	28
NT-457-TB	18"	M20	65 x 16	610	686	32
NT-508-TB	20"	M20	65 x 16	680	776	35
NT-610-TB	24"	M20	65 x 16	780	876	42

#### Method of Installation:



## A PIPE CLAMPS

### Rubber Support Insert

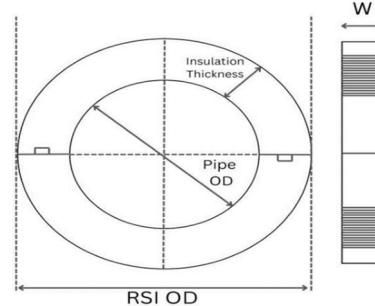


#### Application

- Rubber Support Inserts are specifically designed to be used as support for pipes. They prevent insulated pipes from being crush due to immense load and pressure.

#### Size Range

- Pipe size of 1/2" through 30" for insulation thickness of 25, 32, 40, 50, 65, 75 and 100 mm.
- Any other special size can also be manufactured as per requirement.



#### Technical Specifications

- Manufactured complying with British standards, BS 3974: Part I.
- Compression-molded to withstand high load and pressure exerted by hot and cold mediums.
- Designed for easy and quick installation,
- Manufactured to suit local environmental conditions.
- Density: 1100-1400kg/m<sup>3</sup>.
- Thermal Conductivity: 0.16w/m°C.
- Temperature Resistance from -35°C to 120°C
- Measurements are subject to 5% tolerance.
- \*Due to continuous improvement, product specifications are subject to change without prior notice.

## RSI SUPPORT SELECTION CHART - STEEL PIPE

### 19MM THICKNESS

Sl. No	Part No	Pipe Size		Pipe OD (mm)	Width (W) (mm)	Total OD (A) (mm)	Part No	Pipe Size		Pipe OD (mm)	Width (W) (mm)	Total OD (A) (mm)
		(in)	(mm)					(in)	(mm)			
1	NT-RSI-1519	1/2"	15	21.3	25mm	59	NT-RSI-1525	1/2"	15	21.3	25mm	71
2	NT-RSI-2019	3/4"	20	26.7	25mm	65	NT-RSI-2025	3/4"	20	26.7	25mm	65
3	NT-RSI-2519	1"	25	33.4	25mm	71	NT-RSI-2525	1"	25	33.4	25mm	71
4	NT-RSI-3219	1 1/4"	32	42.1	25mm	80	NT-RSI-3225	1 1/4"	32	42.1	25mm	80
5	NT-RSI-4019	1 1/2"	40	48.2	25mm	86	NT-RSI-4025	1 1/2"	40	48.2	25mm	86
6	NT-RSI-5019	2"	50	60.3	25mm	98	NT-RSI-5025	2"	50	60.3	25mm	98
7	NT-RSI-6519	2 1/2"	65	73	38mm	111	NT-RSI-6525	2 1/2"	65	73	38mm	111
8	NT-RSI-8019	3"	80	89.6	38mm	127	NT-RSI-8025	3"	80	89.6	38mm	127
9	NT-RSI-9019	3 1/2"	90	101.9	38mm	140	NT-RSI-9025	3 1/2"	90	101.9	38mm	140
10	NT-RSI-10019	4"	100	114.5	38mm	152	NT-RSI-10025	4"	100	114.5	38mm	152
11	NT-RSI-12519	5"	125	141.3	38mm	179	NT-RSI-12525	5"	125	141.3	38mm	179
12	NT-RSI-15019	6"	150	168.3	50mm	206	NT-RSI-15025	6"	150	168.3	50mm	206
13	NT-RSI-20019	8"	200	219.1	50mm	257	NT-RSI-20025	8"	200	219.1	50mm	257
14	NT-RSI-25019	10"	250	273	50mm	311	NT-RSI-25025	10"	250	273	50mm	311
15	NT-RSI-30019	12"	300	323.8	50mm	362	NT-RSI-30025	12"	300	323.8	50mm	362
16	NT-RSI-35019	14"	350	355.6	50mm	394	NT-RSI-35025	14"	350	355.6	50mm	394

### 32MM THICKNESS

Sl. No	Part No	Pipe Size		Pipe OD (mm)	Width (W) (mm)	Total OD (A) (mm)	Part No	Pipe Size		Pipe OD (mm)	Width (W) (mm)	Total OD (A)(mm)
		(in)	(mm)					(in)	(mm)			
1	NT-RSI-1532	1/2"	15	21.3	25mm	85	NT-RSI-1538	1/2"	15	21.3	25mm	97
2	NT-RSI-2032	3/4"	20	26.7	25mm	91	NT-RSI-2038	3/4"	20	26.7	25mm	103
3	NT-RSI-2532	1"	25	33.4	25mm	97	NT-RSI-2538	1"	25	33.4	25mm	109
4	NT-RSI-3232	1 1/4"	32	42.1	25mm	106	NT-RSI-3238	1 1/4"	32	42.1	25mm	118
5	NT-RSI-4032	1 1/2"	40	48.2	25mm	112	NT-RSI-4038	1 1/2"	40	48.2	25mm	124
6	NT-RSI-5032	2"	50	60.3	25mm	124	NT-RSI-5038	2"	50	60.3	25mm	130
7	NT-RSI-6532	2 1/2"	65	73	38mm	137	NT-RSI-6538	2 1/2"	65	73	38mm	149
8	NT-RSI-8032	3"	80	89.6	38mm	153	NT-RSI-8038	3"	80	89.6	38mm	165
9	NT-RSI-9032	3 1/2"	90	101.9	38mm	166	NT-RSI-9038	3 1/2"	90	101.9	38mm	178
10	NT-RSI-10032	4"	100	114.5	38mm	178	NT-RSI-10038	4"	100	114.5	38mm	190
11	NT-RSI-12532	5"	125	141.3	38mm	205	NT-RSI-12538	5"	125	141.3	38mm	217
12	NT-RSI-15032	6"	150	168.3	50mm	232	NT-RSI-15038	6"	150	168.3	50mm	244
13	NT-RSI-20032	8"	200	219.1	50mm	283	NT-RSI-20038	8"	200	219.1	50mm	295
14	NT-RSI-25032	10"	250	273	50mm	337	NT-RSI-25038	10"	250	273	50mm	349
15	NT-RSI-30032	12"	300	323.8	50mm	388	NT-RSI-30038	12"	300	323.8	50mm	400
16	NT-RSI-35032	14"	350	355.6	50mm	420	NT-RSI-35038	14"	350	355.6	50mm	432

### 38MM THICKNESS

## RSI SUPPORT SELECTION CHART - STEEL PIPE

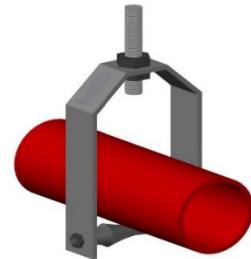
### 50MM THICKNESS

Sl. No	Part No	Pipe Size		Pipe OD (mm)	Width (W) (mm)	Total OD (A) (mm)	Part No	Pipe Size		Pipe OD (mm)	Width (W) (mm)	Total OD (A) (mm)
		(in)	(mm)					(in)	(mm)			
1	NT-RSI-1550	1/2"	15	21.3	25mm	121	NT-RSI-1565	1/2"	15	21.3	25mm	151
2	NT-RSI-2050	3/4"	20	26.7	25mm	127	NT-RSI-2065	3/4"	20	26.7	25mm	157
3	NT-RSI-2550	1"	25	33.4	25mm	133	NT-RSI-2565	1"	25	33.4	25mm	163
4	NT-RSI-3250	1 1/4"	32	42.1	25mm	142	NT-RSI-3265	1 1/4"	32	42.1	25mm	172
5	NT-RSI-4050	1 1/2"	40	48.2	25mm	148	NT-RSI-4065	1 1/2"	40	48.2	25mm	178
6	NT-RSI-5050	2"	50	60.3	25mm	160	NT-RSI-5065	2"	50	60.3	25mm	190
7	NT-RSI-6550	2 1/2"	65	73	38mm	173	NT-RSI-6565	2 1/2"	65	73	38mm	203
8	NT-RSI-8050	3"	80	89.6	38mm	189	NT-RSI-8065	3"	80	89.6	38mm	219
9	NT-RSI-9050	3 1/2"	90	101.9	38mm	202	NT-RSI-9065	3 1/2"	90	101.9	38mm	232
10	NT-RSI-10050	4"	100	114.5	38mm	214	NT-RSI-10065	4"	100	114.5	38mm	244
11	NT-RSI-12550	5"	125	141.3	38mm	241	NT-RSI-12565	5"	125	141.3	38mm	271
12	NT-RSI-15050	6"	150	168.3	50mm	268	NT-RSI-15065	6"	150	168.3	50mm	298
13	NT-RSI-20050	8"	200	219.1	50mm	319	NT-RSI-20065	8"	200	219.1	50mm	349
14	NT-RSI-25050	10"	250	273	50mm	373	NT-RSI-25065	10"	250	273	50mm	403
15	NT-RSI-30050	12"	300	323.8	50mm	424	NT-RSI-30065	12"	300	323.8	50mm	454
16	NT-RSI-35050	14"	350	355.6	50mm	456	NT-RSI-35065	14"	350	355.6	50mm	486

### 75MM THICKNESS

Sl. No	Part No	Pipe Size		Pipe OD (mm)	Width (W) (mm)	Total OD (A)(mm)
		(in)	(mm)			
1	NT-RSI-1575	1/2"	15	21.3	25mm	171
2	NT-RSI-2075	3/4"	20	26.7	25mm	177
3	NT-RSI-2575	1"	25	33.4	25mm	183
4	NT-RSI-3275	1 1/4"	32	42.1	25mm	192
5	NT-RSI-4075	1 1/2"	40	48.2	25mm	198
6	NT-RSI-5075	2"	50	60.3	25mm	210
7	NT-RSI-6575	2 1/2"	65	73	38mm	223
8	NT-RSI-8075	3"	80	89.6	38mm	239
9	NT-RSI-9075	3 1/2"	90	101.9	38mm	252
10	NT-RSI-10075	4"	100	114.5	38mm	264
11	NT-RSI-12575	5"	125	141.3	38mm	291
12	NT-RSI-15075	6"	150	168.3	50mm	318
13	NT-RSI-20075	8"	200	219.1	50mm	369
14	NT-RSI-25075	10"	250	273	50mm	423
15	NT-RSI-30075	12"	300	323.8	50mm	474
16	NT-RSI-35075	14"	350	355.6	50mm	506

## Adjustable Roller Hanger

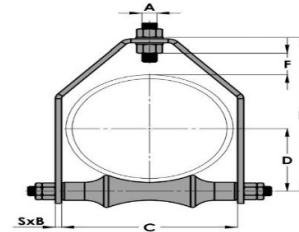


### Product Features

- For support of pipe where horizontal movement due to expansion and contraction may occur.
- Vertical adjustment up to 6" is possible.
- Nonconductive pipe rollers - prevent the passing of current from pipeline to structure.
- Electrogalvanized as per ASTM A36

### Technical Specifications

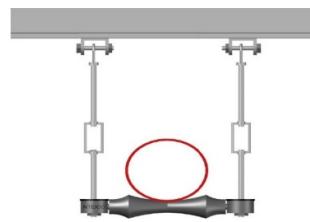
- Material: Carbon Steel ASTM A36
- Design to meet MSS Standard SP-58-2002
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.



Part No	D	A	B x s (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Max load (KN)	W Per 100 pcs KG
NT-RH-050	2"	M12	5x25	70.5	39.0	119.5	31.7	0.7	52,0
NT-RH-065	2 1/2"	M12	5x25	83.5	49.0	145.5	40.2	1.0	73,0
NT-RH-080	3"	M12	6x30	99.5	55.5	161.5	42.2	1.4	100,0
NT-RH-090	3 1/2"	M12	6x30	112.0	63.5	177.5	39.2	1.7	120,0
NT-RH-100	4"	M16	6x40	124.5	70.0	191.5	40.2	2.0	150,0
NT-RH-125	5"	M16	10x45	154.0	84.5	232.0	46.5	3.0	310,0
NT-RH-150	6"	M20	10x50	181.0	101.0	262.0	45.0	3.5	430,0
NT-RH-200	8"	M20	10x60	231.5	130.0	323.5	52.5	3.5	690,0
NT-RH-250	10"	M24	10x60	285.5	158.8	383.5	52.8	4.3	890,0
NT-RH-300	12"	M24	12x60	338.0	187.5	443.5	56.5	5.3	1300,0
NT-RH-350	14"	M24	12x60	370.0	209.3	478.5	53.7	5.3	1680,0
NT-RH-400	16"	M24	12x60	421.0	234.8	528.5	52.7	5.3	1980,0
NT-RH-450	18"	M30	12x75	471.5	263.5	602.5	68.4	6.2	2470,0
NT-RH-500	20"	M30	16x75	522.5	291.7	659.5	68.2	7.0	3510,0
NT-RH-600	24"	M30	16x75	624.0	350.5	799.5	98.4	8.0	4400,0

## A PIPE CLAMPS

### Pipe Roller

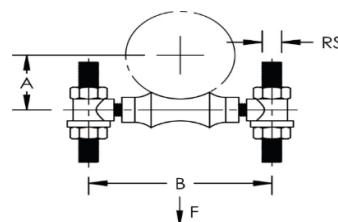


#### Product Features

- For the axial movement it provides to support pipes.
- By using two rollers, several pipe installations are possible.
- Because of expansion and contraction, pipes can move axially thanks to adaptable design.

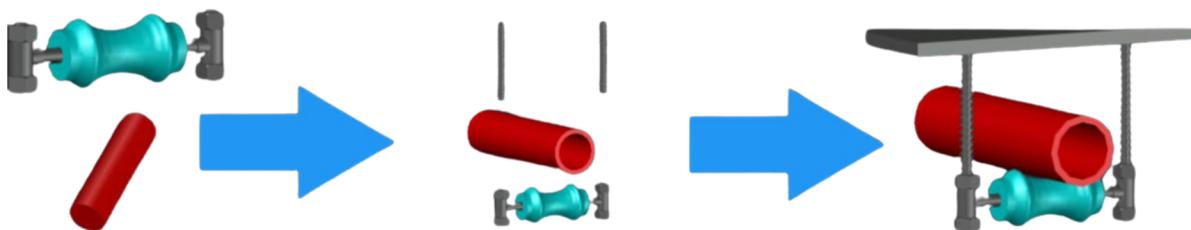
#### Technical Specifications

- Material: Steel
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.



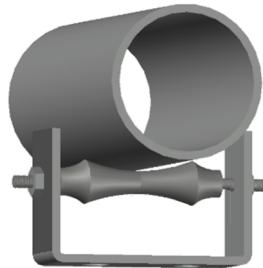
Part No	Pipe size	Rod Size	A	B	Recommended Load (kN)
NT-RP-06	6"	M20	101.60 mm	250.8 mm	4.7
NT-RP-08	8"	M22	130.18 mm	304.8 mm	6
NT-RP-10	10"	M22	161.93 mm	355.6 mm	7.6
NT-RP-12	12"	M22	190.50 mm	419.1 mm	10.60
NT-RP-14	14"	M25	212.73 mm	450.9 mm	13.92
NT-RP-16	16"	M25	241.30 mm	527.1 mm	17.66
NT-RP-18	18 "	M25	266.70 mm	568.3 mm	18.68
NT-RP-20	20"	M32	295.28 mm	622.3 mm	20.20
NT-RP-24	24"	M38	355.60 mm	731.8 mm	27.40

#### Method of Installation:



## A PIPE CLAMPS

### Pipe Roller Chair

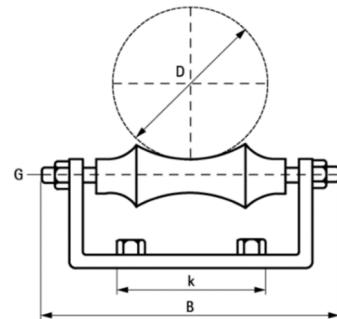


#### Product Features

- Whenever horizontal movement due to expansion and contraction may happen, for the support of pipes.
- Long life and high durability.

#### Technical Specification

- **Material:** bracket, steel
- **Roller:** solid steel shaft
- **Finish:** Hot dipped Galvanized, electrogalvanized as per ASTM A32

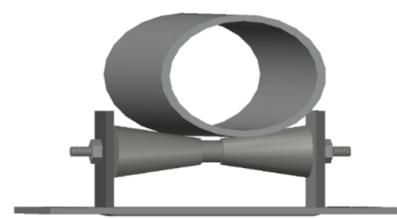
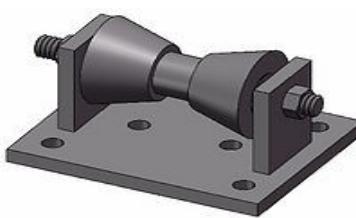


Part No.	D ("")	G	B (mm)	b x s (mm)	k (mm)	F <sub>a,z</sub> (kN)
NT-PRC-060	2	M12	110	32 x 6.0	35	6.70
NT-PRC-075	2½	M12	110	32 x 6.0	35	10.00
NT-PRC-090	3	M12	145	32 x 6.0	50	13.80
NT-PRC-100	3½	M12	145	32 x 6.0	50	17.30
NT-PRC-115	4	M12	180	40 x 8.0	50	21.10
NT-PRC-140	5	M12	215	40 x 8.0	75	30.40
NT-PRC-168	6	M20	250	50 x 10.0	80	34.70
NT-PRC-220	8	M20	285	50 x 10.0	85	34.70
NT-PRC-273	10	M20	345	50 x 12.0	130	42.90
NT-PRC-323	12	M24	395	50 x 12.0	140	53.40
NT-PRC-355	14	M24	440	50 x 12.0	165	53.40
NT-PRC-406	16	M32	480	75 x 12.0	210	53.40
NT-PRC-457	18	M32	525	75 x 12.0	235	62.30
NT-PRC-508	20	M36	555	75 x 12.0	260	71.10

#### Method of Installation:

## A PIPE CLAMPS

### Roller Stand

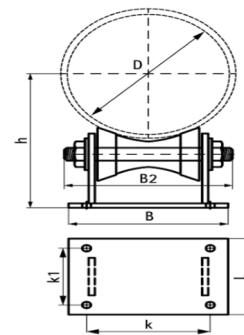


#### Product Features

- Whenever horizontal movement due to expansion and contraction may happen, for the support of pipes.
- Long life and high durability.

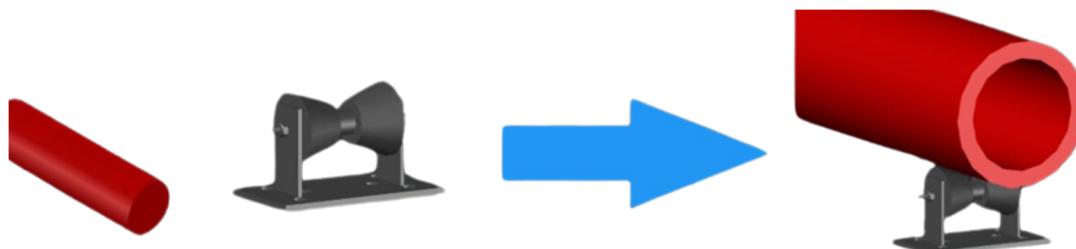
#### Technical Specifications

- Material: bracket, steel
- Roller; solid steel shaft
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.



Part No	D (")	L (mm)	B (mm)	B2 (mm)	h (mm)	D1 (mm)	K (mm)	K1 (mm)	F <sub>a, z</sub> (kN)
NT-RS-120	2 / 2½ / 3 / 3½	135	120	150	93	16	115	100	5.5
NT-RS-160	4 / 5 / 6	135	160	150	152	16	115	100	13
NT-RS-235	8 / 10	165	235	215	242	20	160	110	17.5
NT-RS-300	12 / 14	200	300	275	302	20	220	145	35
NT-RS-340	16 / 18 / 20	215	340	310	396	24	245	150	52.5
NT-RS-390	22 / 24	240	390	340	455	24	265	165	65
NT-RS-470	26 / 28 / 30	270	470	430	545	28	345	185	84.5
NT-RS-540	30	300	540	500	635	28	415	215	105

#### Method of Installation:



## A PIPE CLAMPS

### Insulation Protection Shield

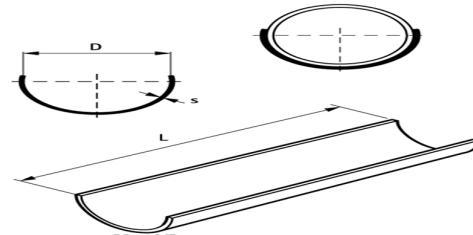


#### Product Features

- Utilized to prevent insulation from crushing between the hanger surface and insulated pipes.
- It is advised to distribute loads outside of foam or Fiber glass insulation to prevent crushing of the insulation without rupturing the vapor barrier.

#### Technical Specifications

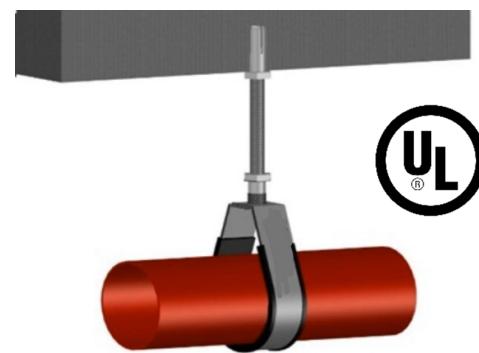
- Material: Carbon steel
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake coating (as per ASTM F1136) options for adverse corrosive (C4 and higher) atmospheric conditions available.



Part No.	D (mm)	L	s (mm)	$\varnothing$ Matching Hanger ("")	$\varnothing$ Matching Hanger (mm)
NT-IPS-01AS	48.2	305 mm	1.22	1½	40
NT-IPS-02AS	60.4	305 mm	1.22	2	50
NT-IPS-03AS	73.1	305 mm	1.22	2½	65
NT-IPS-04AS	88.9	305 mm	1.22	3	80
NT-IPS-05AS	101.6	305 mm	1.22	3½	90
NT-IPS-06AS	114.3	305 mm	1.22	4	100
NT-IPS-07AS	127.0	305 mm	1.22	5	125
NT-IPS-08AS	141.2	305 mm	1.22	5	125
NT-IPS-09AS	168.6	305 mm	1.22	6	150
NT-IPS-10AS	194.0	305 mm	1.22	8	200
NT-IPS-11AS	219.4	305 mm	1.22	8	200
NT-IPS-10BS	194.0	457 mm	1.52	8	200
NT-IPS-11BS	219.0	457 mm	1.52	8	200
NT-IPS-12BS	244.8	457 mm	1.52	10	250
NT-IPS-13BS	273.3	457 mm	1.52	10	250
NT-IPS-14CS	298.7	610 mm	1.91	12	300
NT-IPS-15CS	324.1	610 mm	1.91	12	300

## A PIPE CLAMPS

### Lined Swivel Clamp

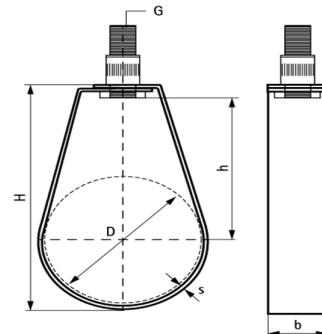


#### Product Features

- A one-piece clip ensures higher load capacity.
- Used for installing sprinkler and firefighting pipes.
- Simple tool-free mounting.
- Locking mechanisms make pre-mounting simple.

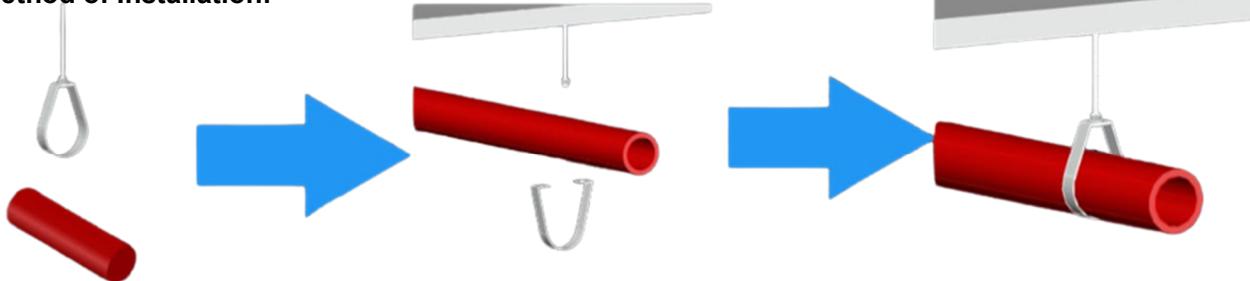
#### Technical Specifications

- Materials: Carbon Steel
- Designed to meet MSS SP-58 Type-10
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake Coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.



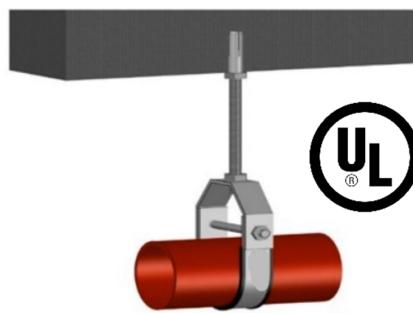
Part No	Size (Inches)	D (mm)	G	Std. Strip size (mm)	H (mm)	Safe load (kN)	Break load (kN)	No of pcs/box
NT-028-SW2	¾"	28	M10	1.5x20	61	7.5	4.5	400
NT-035-SW2	1"	35	M10	1.5x20	68	7.5	22.5	300
NT-042-SW2	1 ¼"	42	M10	1.5x20	75	7.5	22.5	250
NT-048-SW2	1 ½"	48	M10	1.5x20	81	7.5	22.5	200
NT-060-SW2	2"	60	M10	1.5x20	100	7.5	22.5	180
NT-075-SW2	2 ½"	75	M10	2x32	120	10	30	75
NT-090-SW2	3"	90	M10	2x32	135	10	30	60
NT-100-SW2	3 ½"	100	M10	2x32	150	10	30	40
NT-115-SW2	4"	115	M10	2.5x32	165	14	30	40
NT-140-SW2	5"	140	M10	2.5x40	195	18	54	25
NT-168-SW2	6"	168	M10	2.5x40	230	21	63	20
NT-219-SW2	8"	219	M10	3x50	290	28	84	10
NT-273-SW2	10"	273	M10	3x50	315	35	105	8

#### Method of Installation:



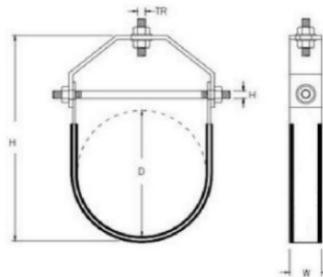
## A PIPE CLAMPS

### Lined Clevis Hanger



#### Product Features

- Designed for chilled water and firefighting systems.
- Design permits vertical adjustment of pipe after installation.
- Hanger load nut above Clevis must be tightened securely to ensure proper hanger performance.
- EPDM lining for suppression of sound vibrations.
- Temperature ranges from -20 C to 110 C.

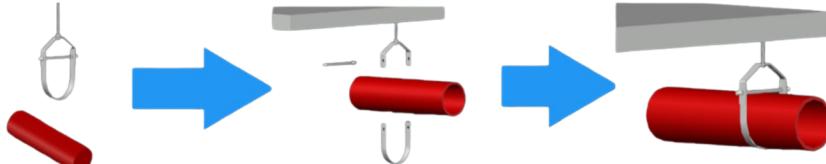


#### Technical Specifications

- Materials: Carbon Steel.
- Designed to meet MSS SP-58 Type-1
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake Coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.

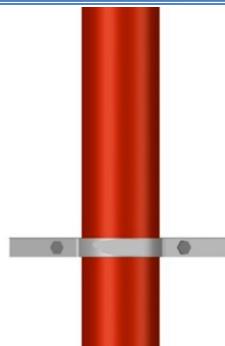
Part No	Size (Inches)	Upper Steel (mm)	Lower Steel (mm)	Rod size (mm)	Bolt size (mm)	H (mm)	D (mm)	Max load (kN)	No of Pcs/box
NT-022-CH2	1/2"	2 x 25	2 x 25	10	8	70	22	6.1	450
NT-028- CH2	3/4"	2 x 25	2 x 25	10	8	76	28	6.1	400
NT-035- CH2	1"	2 x 25	2 x 25	10	8	82	35	7.3	350
NT-040- CH2	1-1/4"	2.5x 25	2.5 x 25	10	8	92	42	7.3	300
NT-048- CH2	1-1/2"	2.5x 25	2.5 x 25	10	8	100	48	7.3	250
NT-060- CH2	2"	2.5x 25	2.5 x 25	10	10	117	60	7.3	200
NT-075- CH2	2-1/2"	3 x 25	3 x 25	12	10	146	73	13.5	200
NT-090- CH2	3"	3 x 25	3 x 25	12	10	155	89	13.5	125
NT-100- CH2	3-1/2"	3 x 25	3 x 25	12	10	173	105	13.5	125
NT-115- CH2	4"	5 x 32	3 x 32	12	10	198	115	14.3	125
NT-140- CH2	5"	5 x 32	4 x 32	16	12	232	140	14.3	100
NT-168- CH2	6"	5 x 38	4 x 38	16	12	266	168	19.4	100
NT-219- CH2	8"	6 x 38	4 x 38	16	12	338	219	20	100
NT-273- CH2	10"	6 x 38	5 x 38	16	16	419	273	36	60
NT-323- CH2	12"	9 x 50	6 x 50	20	20	490	323	38	75

#### Method of Installation:



## A PIPE CLAMPS

### Lined Riser Clamp

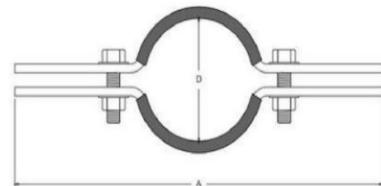


#### Product Features

- Designed to act as a rigid support or guide for vertical pipes.
- Suitable for use with all types of pipes.

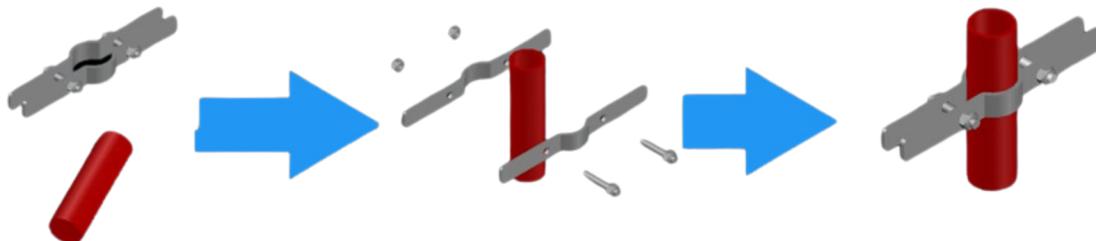
#### Technical Specifications

- Material: Carbon Steel.
- Designed to meet MSS SP-58-2002 Type-8.
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake Coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.



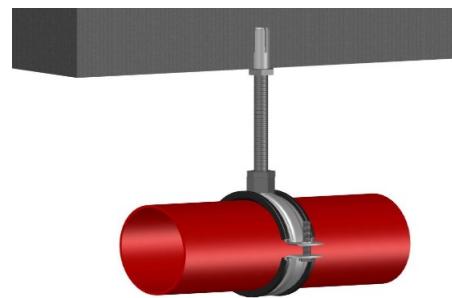
Part No.	D (Inches)	Length (mm)	Metal Size (mm)	Bolt Size (mm)	Max Load (kN)
NT-022-RC2	1/2"	200	5 x 25	10	11.3
NT-028-RC2	3/4"	210	5 x 25	10	11.3
NT-035-RC2	1"	230	5 x 25	10	11.3
NT-040-RC2	1-1/4"	260	5 x 25	10	11.3
NT-048-RC2	1-1/2"	260	5 x 25	10	11.3
NT-060-RC2	2"	260	5 x 25	10	11.3
NT-075-RC2	2-1/2"	290	6 x 25	12	17.3
NT-090-RC2	3"	290	6 x 25	12	23.5
NT-100-RC2	3-1/2"	330	6 x 32	12	29.8
NT-115-RC2	4"	330	6 x 32	12	36
NT-140-RC2	5"	350	6 x 40	16	51.6
NT-168-RC2	6"	380	6 x 40	16	69.8
NT-220-RC2	8"	470	9 x 40	16	111.2
NT-273-RC2	10"	520	9 x 50	16	111.2
NT-323-RC2	12"	580	12x 50	16	120.1
NT-355-RC2	14"	610	12 x 50	16	120.1
NT-406-RC2	16"	660	16 x 60	20	129.0
NT-457-RC2	18"	710	16 x 60	20	129.0
NT-508-RC2	20"	760	16 x 60	20	129.0
NT-610-RC2	24"	880	16 x 60	20	129.0

#### Method of Installation:



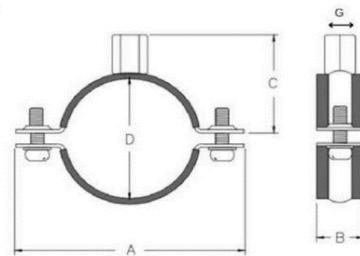
## A PIPE CLAMPS

### Lined Split Clamp



#### Product Features

- Strengthened lock bolts for high load capacity.
- Lock bolts with combination of cross recessed head.
- Grooved construction for added strength.



#### Technical Specifications

- Welded Nut M8/M10 with option of M10/M12.
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake Coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.

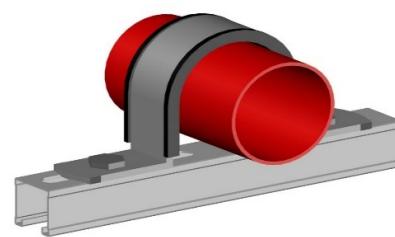
Part No	Pipe Size (Inches)	D (mm)	D Range (mm)	Dimension (mm)			Bolt Size	Nut Size	Safe Load (kN)	Break Load (kN)	No of pcs/box
				A	B	C					
NT-018-SC2	3/8"	15	15-19	60	1.2 X 20	26	M5X 16	M8/M10	1.5	4.5	450
NT-020-SC2	11/2"	22	20-25	65	1.2 X 20	29	M5X 16	M8/M10	1.5	4.5	400
NT-028-SC2	3/4"	28	26-30	70	1.2X 20	32	M5X 16	M8/M10	1.5	4.5	350
NT-035-SC2	1"	35	32-36	85	1.2X 20	36	M5X 16	M8/M10	1.5	4.5	300
NT-040-SC2	1-1/4"	42	38-43	92	1.2X 20	39	M5X20	M8/M10	1.5	4.5	250
NT-048-SC2	1-1/2"	48	47-51	98	1.2 X 20	42	M5X20	M8/M10	1.5	4.5	200
NT-054-SC2	-	54	53-58	104	1.2 X 20	45	M6 X 20	M8/M10	1.5	4.5	200
NT-060-SC2	2"	60	60-64	110	1.2 X 20	48	M6 X 20	M8/M10	1.5	4.5	125
NT-063-SC2	-	63	63-66	115	1.2X 20	51	M6X 20	M8/M10	1.5	4.5	125
NT-070-SC2	-	70	68-72	120	1.5 X 20	53	M6X 20	M8/M10	1.5	4.5	125
NT-075-SC2	2-1/2"	15	74-80	125	1.5X 20	56	M6X20	M8/M10	2	6	100
NT-083-SC2	-	83	81-86	139	1.5 X 20	60	M6 X 20	M8/M10	2	6	100
NT-090-SC2	3"	90	87-92	146	1.5 X 20	63	M6X20	M8/M10	2	6	100
NT-100-SC2	3-1/2"	100	99-105	156	2.0 X 20	68	M6X20	M8/M10	2	6	80
NT-110-SC2	-	110	107-112	166	2.0 X 20	73	M6X20	M8/M10	2	6	75
NT-115-SC2	4"	115	113-118	171	2.0 X 20	76	M6X20	M8/M10	2	6	70
NT-125-SC2	-	125	125-130	181	2.0 X 20	81	M6X20	M8/M10	2	6	70
NT-133-SC2	-	133	131-137	184	2.0 X 20	85	M6X20	M8/M10	2	6	50
NT-140-SC2	5"	140	138-142	196	2.0X 20	88	M6X20	M8/M10	2	6	50
NT-150-SC2	-	150	148-153	206	2.0X 20	93	M6X20	M8/M10	2	6	50
NT-160-SC2	-	160	158-166	216	2.0 X 20	98	M6X20	M8/M10	2	6	50
NT-168-SC2	6"	168	168-172	224	2.0 X 20	102	M6X20	M8/M10	2	6	50
NT-200-SC2	-	200	200-212	256	2.0X 20	118	M6X20	M8/M10	3	9	50
NT-220-SC2	8"	220	215-220	276	2.0 X 20	128	M6X20	M8/M10	3	9	40

#### Method of Installation:



## A PIPE CLAMPS

### Lined U- Strap Clamp

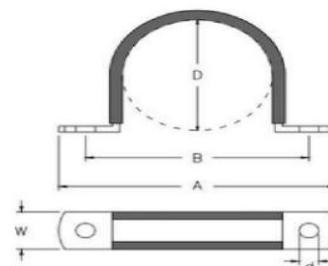


#### Product Features

- Used to mount plain or insulated pipes.
- Can be used with rubber support inserts.
- Temperature range: -20°C to 110°C

#### Technical Specifications

- Material: Mild Steel.
- Designed to meet MSS SP-58 Type-26.
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake Coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.



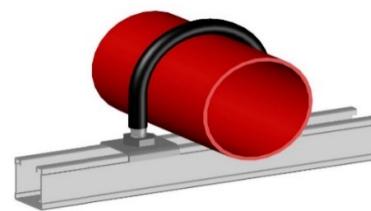
Part No	D (Inches)	Dimension(m)			Bolt Size	Standard Strip size	Max Load (kN)
		D	A	B			
NT-022-US2	1/2"	22	76	51	8	2 x 25	5.5
NT-028-US2	3/4"	28	82	57	8	2 x 25	5.5
NT-035-US2	1"	35	89	64	8	2 x 25	5.5
NT-040-US2	-	42	96	72	8	2 x 25	5.5
NT-048-US2	-	48	102	77	8	2 x 25	5.5
NT-054-US2	-	54	108	83	8	2 x 25	5.5
NT-060-US2	2"	60	114	89	8	2 x 25	5.5
NT-067-US2	-	67	121	96	8	2 x 25	5.5
NT-075-US2	2-1/2"	75	145	113	8	2 x 25	6.5
NT-082-US2	-	82	152	120	10	2 x 25	6.5
NT-090-US2	3"	90	160	128	10	2 x 25	6.5
NT-100-US2	3-1/2"	100	170	138	10	2 x 25	6.5
NT-108-US2	-	108	178	146	10	2 x 25	6.5
NT-115-US2	4"	115	185	151	10	3 x 25	6.5
NT-126-US2	-	126	196	164	10	3 x 25	6.5
NT-140-US2	5"	140	210	178	10	3 x 25	6.5
NT-148-US2	-	148	218	186	10	3 x 25	6.5
NT-155-US2	-	155	225	193	10	3 x 25	6.5
NT-168-US2	6"	168	237	205	10	3 x 25	6.5
NT-179-US2	-	179	249	217	10	3 x 25	6.5
NT-190-US2	-	190	260	225	10	3 x 25	9
NT-205-US2	-	205	275	243	10	3 x 25	9
NT-219-US2	8"	219	289	257	10	3 x 25	9
NT-230-US2	-	230	300	268	10	3 x 25	9
NT-241-US2	-	241	332	291	12	3 x 25	13.5
NT-263-US2	-	263	354	313	12	3 x 25	13.5
NT-273-US2	10"	273	364	323	12	3 X 25	13.5
NT-295-US2	-	295	386	345	12	3 X 38	13.5
NT-323-US2	12"	323	414	373	12	3 X 38	13.5

#### Method of Installation:



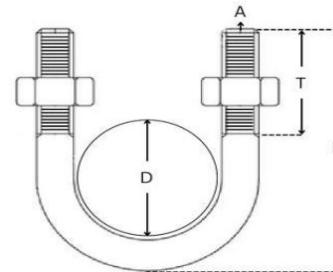
## A PIPE CLAMPS

### Lined U Bolt



#### Product Features

- High load capacity due to one-piece design.
- Supplied with two or four nuts.
- Special U Bolts with longer tangents and threads can be furnished on request.



#### Technical Specifications

- Material: Mild Steel.
- Designed to meet MSS SP-58-2002 Type-24.
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.

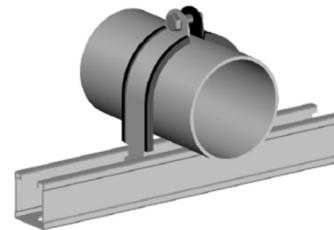
Part No	D (Inches)	Dimension (mm)			T	Max Load (kN)
		A	D	L		
NTI44022-L	1/2"	10	21	65	50	65
NTI44028-L	3/4"	10	27	77	50	65
NTI44035-L	1"	10	34	85	50	65
NTI44042-L	1-1/4"	10	43	93	50	65
NTI44048-L	1-1/2"	10	48	100	50	65
NTI44060-L	2"	10	60	110	50	65
NTI44075-L	2-1/2"	12	76	127	50	95
NTI44090-L	3"	12	89	140	50	95
NTI44115-L	4"	12	115	165	50	95
NTI44140-L	5"	12	140	195	50	95
NTI44168-L	6"	12	168	220	50	95
NTI44219-L	8"	16	219	295	75	180
NTI44273-L	10"	20	273	370	100	280
NTI44324-L	12"	20	324	420	100	280
NTI44356-L	14"	20	356	455	100	280
NTI44406-L	16"	20	406	505	100	280
NTI44457-L	18"	24	457	555	100	400
NTI44508-L	20"	24	508	506	100	400
NTI44610-L	24"	24	610	710	100	400

#### Method of Installation:



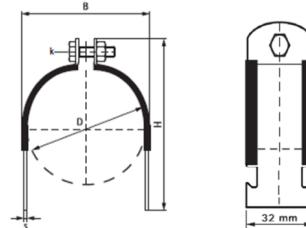
## A PIPE CLAMPS

### Strut Clamp – Rubbered Lined



#### Product Features

- Two-part clamp
- Used for direct fixing of pipes to struts

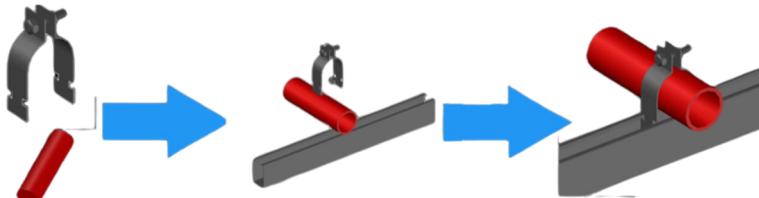


#### Technical Specifications

- Material: Steel
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake coating (as per ASTM F1136) options for adverse corrosive (C4 and higher) atmospheric conditions available.

Part No.	Pipe Size (inches)	D (mm)	B (mm)	H (mm)	S (mm)	k (mm)	Pcs/box
NT-STCL2- 022	1/2	22	35.0	76	2.0	10	400
NT-STCL2- 028	3/4	28	41.0	82	2.0	10	350
NT-STCL2- 035	1	35	48.0	89	2.0	10	300
NT-STCL2- 040	1 1/4	42	55.0	96	2.0	10	250
NT-STCL2- 048	1 1/2	48	61.0	102	2.0	13	200
NT-STCL2- 060	2	60	73.0	114	2.0	13	125
NT-STCL2- 075	2 1/2	73	86.0	127	2.0	13	100
NT-STCL2- 090	3	89	107.0	143	2.0	13	100
NT-STCL2- 100	3 1/2	105	124.5	159	2.5	17	80
NT-STCL2- 115	4	115	134.5	169	2.5	17	70
NT-STCL2- 140	5	140	159.5	194	2.5	17	50
NT-STCL2- 168	6	168	188.0	222	3.0	17	50
NT-STCL2- 219	8	219	239.0	273	3.0	17	40
NT-STCL2- 273	10	273	293.0	327	3.0	17	30
NT-STCL2- 323	12	323	343.0	377	3.0	17	25

#### Method of Installation:



## A PIPE CLAMPS

### Acoustic Pipe Clamp

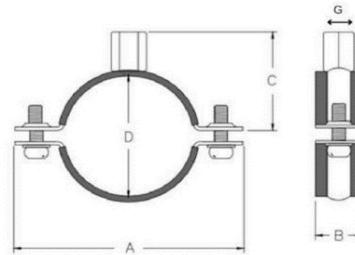


#### Product Features

- Suitable for pipelines with excessive operating noise and vibrations.
- Temperature range: - 20C to 110C.
- Lock bolts with combination of cross recessed head.
- Grooved construction for added strength.
- Noise suppression up to 20 dB (A) as per DIN 490

#### Technical Specifications

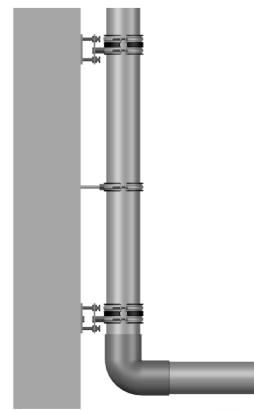
- Materials: Carbon Steel
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.



Part No	Pipe Size (Inches)	D (mm)	D Range (mm)	Dimension (mm)			Bolt Size	Nut Size	Safe Load (kN)	Break Load (kN)	No of pcs/box
				A	B	C					
NT-018-APC	3/8"	15	15-19	60	1.2 X 20	26	M5X 16	M8/M10	1.5	4.5	450
NT-020-APC	11/2"	22	20-25	65	1.2 X 20	29	M5X 16	M8/M10	1.5	4.5	400
NT-028-APC	3/4"	28	26-30	70	1.2X 20	32	M5X 16	M8/M10	1.5	4.5	350
NT-035-APC	1"	35	32-36	85	1.2X 20	36	M5X 16	M8/M10	1.5	4.5	300
NT-040-APC	1-1/4"	42	38-43	92	1.2X 20	39	M5X20	M8/M10	1.5	4.5	250
NT-048-APC	1-1/2"	48	47-51	98	1.2 X 20	42	M5X20	M8/M10	1.5	4.5	200
NT-054-APC	-	54	53-58	104	1.2 X 20	45	M6 X 20	M8/M10	1.5	4.5	200
NT-060-APC	2"	60	60-64	110	1.2 X 20	48	M6 X 20	M8/M10	1.5	4.5	125
NT-063-APC	-	63	63-66	115	1.2X 20	51	M6X 20	M8/M10	1.5	4.5	125
NT-070-APC	-	70	68-72	120	1.5 X 20	53	M6X 20	M8/M10	1.5	4.5	125
NT-075-APC	2-1/2"	15	74-80	125	1.5X20	56	M6X20	M8/M10	2	6	100
NT-083-APC	-	83	81-86	139	1.5 X 20	60	M6 X 20	M8/M10	2	6	100
NT-090-APC	3"	90	87-92	146	1.5 X 20	63	M6X20	M8/M10	2	6	100
NT-100-APC	3-1/2"	100	99-105	156	2.0 X 20	68	M6X20	M8/M10	2	6	80
NT-110-APC	-	110	107-112.	166	2.0 X 20	73	M6X20	M8/M10	2	6	75
NT-115-APC	4"	115	113-118	171	2.0 X 20	76	M6X20	M8/M10	2	6	70
NT-125-APC	-	125	125-130	181	2.0 X 20	81	M6X20	M8/M10	2	6	70
NT-133-APC	-	133	131-137	184	2.0 X 20	85	M6X20	M8/M10	2	6	50
NT-140-APC	5"	140	138-142	196	2.0X 20	88	M6X20	M8/M10	2	6	50
NT-150-APC	-	150	148-153	206	2.0X 20	93	M6X20	M8/M10	2	6	50
NT-160-APC	-	160	158-166	216	2.0 X 20	98	M6X20	M8/M10	2	6	50
NT-168-APC	6"	168	168-172	224	2.0 X 20	102	M6X20	M8/M10	2	6	50
NT-200-APC	-	200	200-212	256	2.0X 20	118	M6X20	M8/M10	3	9	50
NT-220-APC	8"	220	215-220	276	2.0 X 20	128	M6X20	M8/M10	3	9	40

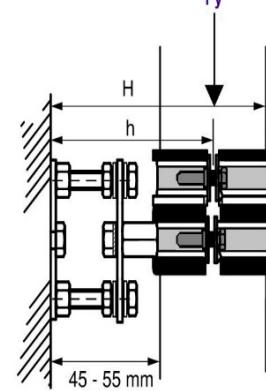
## A PIPE CLAMPS

### Acoustic Stand-Pipe Clamp



#### Product Features

- Specially designed clamp for supporting cast iron and plastic standpipes.
- Suitable for pipelines with excessive operating noise and vibrations.
- Easy and convenient installation with adjustable distance between pipe and wall.
- Recommended to be provided every second floor, and for pipes larger than 125 mm  $\phi$ .
- Noise suppression up to 18 dB (A).



#### Technical Specifications

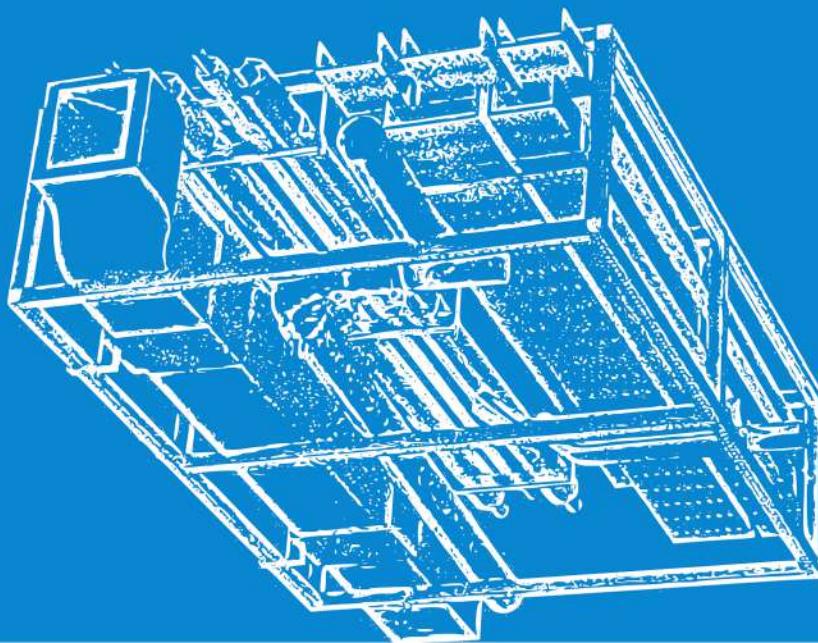
- Materials: Carbon Steel
- Electrogalvanized as per ASTM B633
- Hot-dip galvanized as per ASTM A123
- Stainless Steel options and Superior Zinc Flake coating ( as per ASTM F1136 ) options for adverse corrosive (C4 and higher) atmospheric conditions available.

Part No	Pipe Size (inch)	D (mm)	D Range (mm)	B (mm)	H (mm)	h (mm)	Fy (kN)	Pcs/box
NT-ASPC-048	1-1/2"	50	47-51	98	92-106	69-81	5	5
NT-ASPC-075	2-1/2"	75	74-80	125	119-135	82-95	6	5
NT-ASPC-090	3"	90	87-92	146	132-147	88-101	7.8	5
NT-ASPC-100	3-1/2"	100	99-105	156	144-160	95-108	8	5
NT-ASPC-115	4"	115	113-118	171	158-173	102-114	8	5
NT-ASPC-140	5"	140	138-142	196	183-197	114-126	8.2	5
NT-ASPC-168	6"	168	168-172	224	213-227	129-141	8.2	5
NT-ASPC-200	-	200	200-212	256	245-267	145-161	8.4	5
NT-ASPC-220	8"	220	215-220	276	260-275	153-165	8.4	5

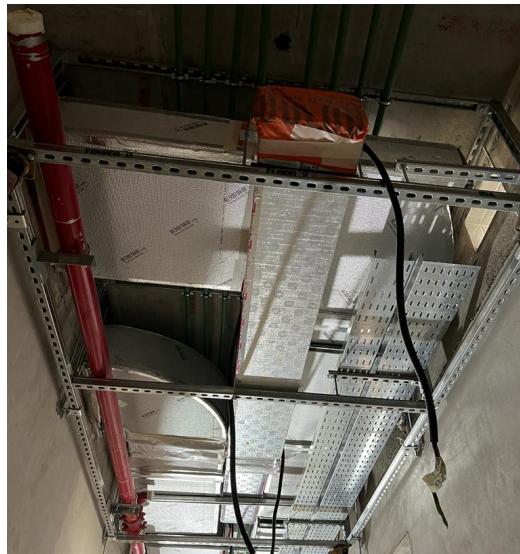
B

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# MODULAR SYSTEM



## MEP MODULAR SYSTEM



The Modular MEP system is a revolutionary step towards solving some of the most complex issues in the construction industry. Each module is fabricated off-site in a controlled environment, exactly as per your requirements before being shipped for installation. The ready to install system saves valuable time compared to installing all systems one-by-one, which also significantly reduces the need for labor on the job floor. Our Modular System ensures you complete all your projects well before time, with no need for on-site fabrication required.

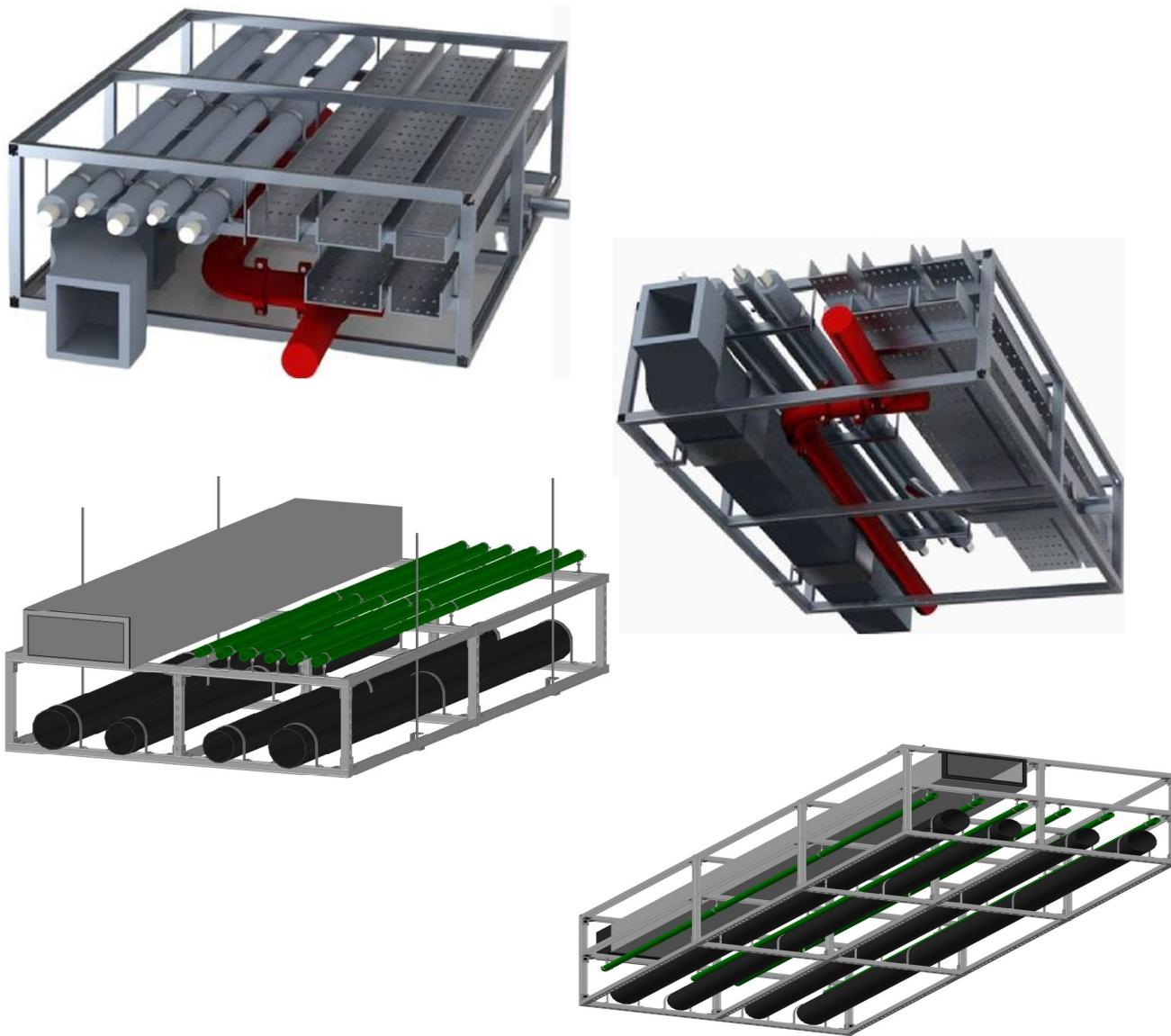
Once installed, our durable Modular Systems are built to last. With enhanced flexibility on offer, you can make changes to our modules at any time in the future with minimum effort.

Contact our team so we can start fabricating for your next project.

- **Easy installation**
- **Faster assembly**
- **Made to your exact requirements**
- **Reduced Waste**

**B MODULAR SYSTEM****MEP MODULAR SYSTEM**

**Application:**



## MEP MODULAR SYSTEM

### Fixing Accessories:

- Electro-galvanized as per ASTM B633 Standards
- Hot dipped galvanized options can be provided on request.



**Flat Fittings**



**Channel Nuts**



**Universal Flange**



**J Clamp**



**Angle Fittings**



**Channel Fittings**



**Channel Connector**



**Channel U Washer**



**Construction Brackets**

**B MODULAR SYSTEM**

## MEP MODULAR SYSTEM COMPONENTS

**Components:**
**NT Flat Connector**

Model Number	Description
NT-C01	Square Channel Washer
NT-C02	2 Hole Splice Plate
NT-C03	3 Hole Splice Plate
NT-C04	4 Hole Splice Plate
NT-C05	5 Hole Splice Plate
NT-C06	3 Hole Half Tee Plate
NT-C07	4 Hole Tee Plate
NT-C08	5 Hole Cross Plate
NT-C09	5 Hole Corner Angle Plate
NT-C010	3 Hole Diagonal Half Plate
NT-C011	7 Hole Diagonal Plate

**NT Wing Fittings / Z Shape Fittings**

Model Number	Description
NT-W01	Wing Support Short
NT-W02	Wing Support Long
NT-W03	Corner Support Short
NT-W04	Corner Support Long
NT-W05	Tee Wing Support Long
NT-W06	One Wing Support
NT-W07	Tee Wing Support Short
NT-Z01	2 Hole Shallow Z Support
NT-Z02	2 Hole Deep Z Support
NT-Z03	Shallow U Support
NT-Z04	U Support
NT-Z05	Deep U Support

## MEP MODULAR SYSTEM COMPONENTS

### Components:

#### NT Angle Fittings

Model Number	Description
NT-A01	2 Hole Corner Angle
NT-A02	2 Hole Corner Angle
NT-A03	3 Hole Corner Angle
NT-A04	Corner Angle Blend
NT-A05	3 Hole Half Tee Angle Plate (Right)
NT-A06	3 Hole Half Tee Angle Plate (Left)
NT-A07	4 Hole Angle Plate (Left)
NT-A08	4 Hole Angle Plate (Right)
NT-A09	4 Hole Tee Angle Plate
NT-A10	Angle Corner Support
NT-A11	4 Hole Tri Angle Plate

#### NT Channel Accessories

Model Number	Description
NT-PN	Slide Nut
NT-SN	Spring Nut
NT-SQN	Square Nut
NT-WN	Wing Nut
NT-UW	U Washer
NT-GC	G Clamp

## NT FLAT CONNECTOR

**Std Dimension:** For 41 mm width series channel fittings

**Std Hole Dia:** 10mm, 12mm, 14mm

**Std Thickness:** 4mm, 6mm, 8mm

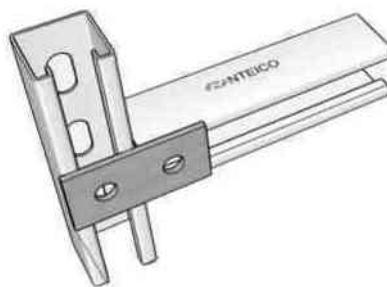
**Std Material:** Carbon Steel SS304/SS316

**Available Finishes:** HDG, Galvanized finish

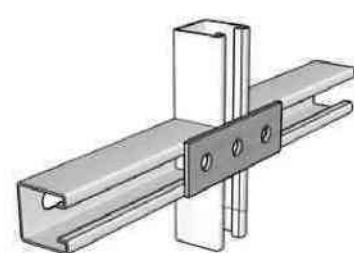
**Square Channel Washer**  
NT-C01



**2 Hole Splice Plate**  
NT-C02



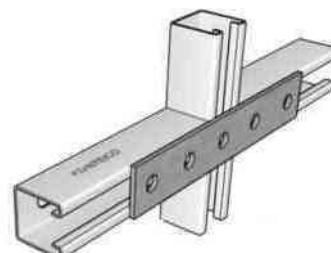
**3 Hole Splice Plate**  
NT-C03



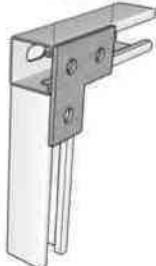
**4 Hole Splice Plate**  
NT-C04



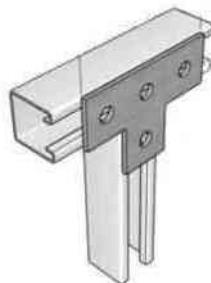
**5 Hole Splice Plate**  
NT-C05



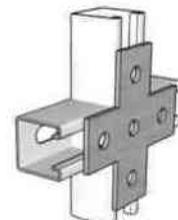
**3 Hole Half Tee Plate**  
NT-C06



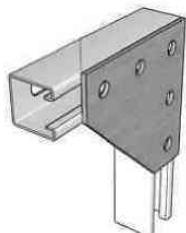
**4 Hole Tee Plate**  
NT-C07



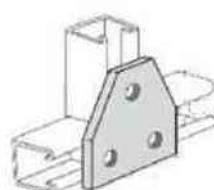
**5 Hole Cross Plate**  
NT-C08



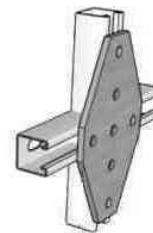
**5 Hole Corner Angle Plate**  
NT-C09



**3 Hole Diagonal Half Plate**  
NT-C10



**7 Hole Diagonal Plate**  
NT-C11



## NT ANGLE FITTINGS

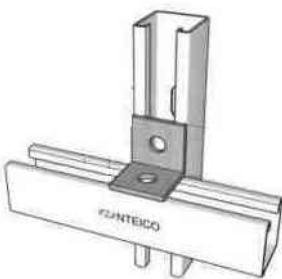
**Std Dimension:** For 41.3mm width series channel fittings

**Std Hole Dia:** 10mm, 12mm, 14mm

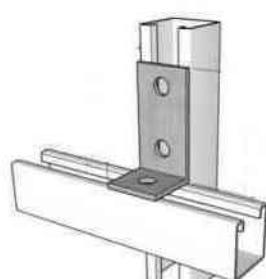
**Std Material:** Carbon Steel SS304/SS316

**Available Finishes:** HDG, Galvanized finish

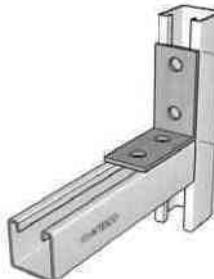
**2 Hole Corner Angle**  
NT-A01



**3 Hole Corner Angle**  
NT-A02



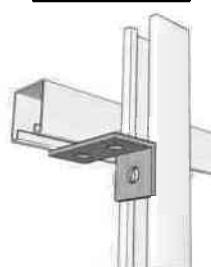
**4 Hole Corner Angle**  
NT-A04



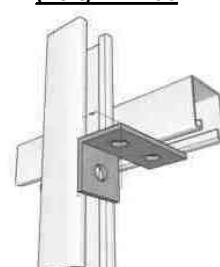
**Corner Angle Blend**  
NT-A05



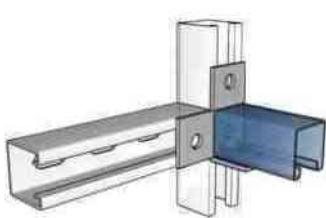
**3 Hole Half Tee Angle Plate**  
(Right) NT-A05



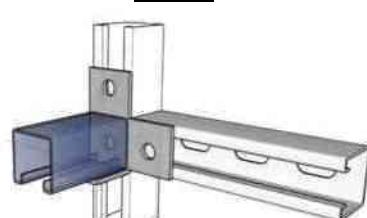
**3 Hole Half Tee Angle Plate**  
(Left) NT-A06



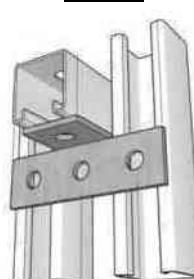
**4 Hole Angle Plate (Left)**  
NT-A07



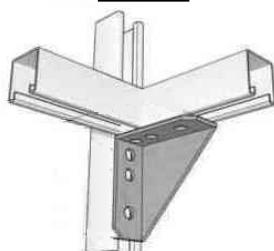
**4 Hole Angle Plate (Right)**  
NT-A08



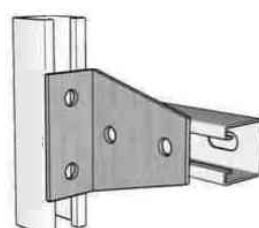
**4 Hole Tee Angle Plate**  
NT-A09



**Angle Corner Support**  
NT-A010



**4 Hole Angle Support**  
NT-A11



## NT WING FITTINGS / Z SHAPE FITTINGS

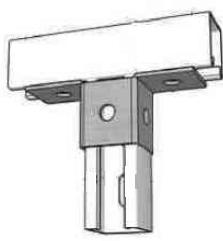
**Std Dimension:** For 41.3mm width series channel fittings

**Std Hole Dia:** 10mm, 12mm, 14mm

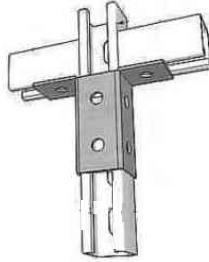
**Std Material:** Carbon Steel SS304/SS316

**Available Finishes:** HDG, Galvanized finish

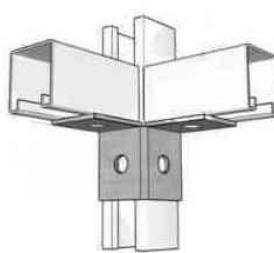
Wing Support Short  
NT-W01



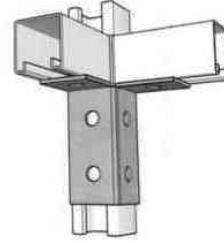
Wing Support Long  
NT-W02



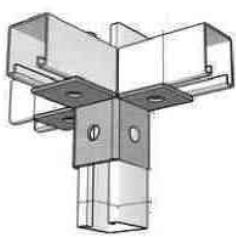
Corner Support Short  
NT-W03



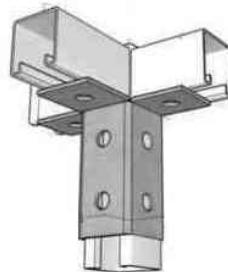
Corner Support Long  
NT-W04



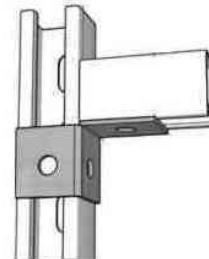
T Wing Support Short  
NT-W05



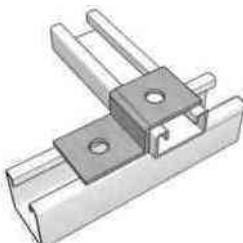
Tee Wing Support Long  
NT-W06



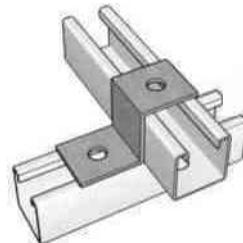
One Wing Support  
NT-W07



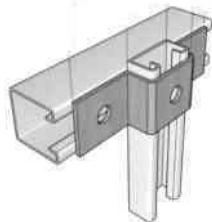
Two-Hole Shallow Z Support  
NT-Z01



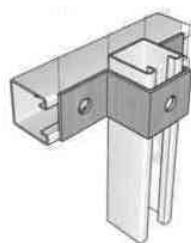
Two-Hole Deep Z Support  
NT-Z02



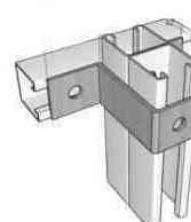
Shallow U Support  
NT-Z03



U Support  
NT-Z04



Deep U Support  
NT-Z05



## NT G CLAMP

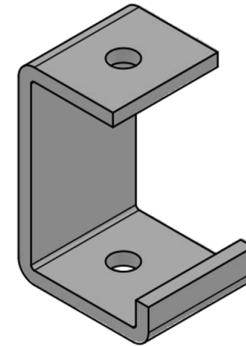
**Std Hole Dia:** 10mm, 12mm, 14mm

**Std Material:** Carbon Steel SS304/SS316

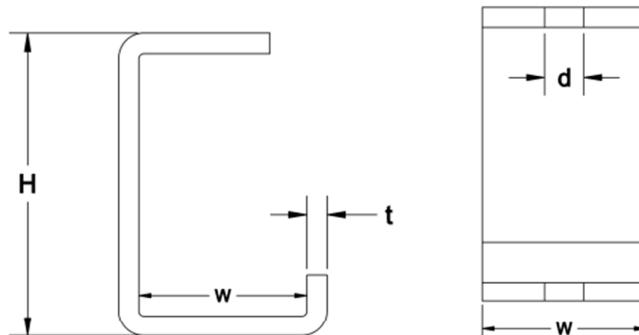
**Available Finishes:** HDG, Galvanized finish

### Construction Features:

- Clamps used for suspending modular systems from roof, by threaded rods.
- Helps in easy installation of modular systems.
- The hole on the bottom flange of the clamp will be used for fastening with channels of the modular system, and hole on top serves the purpose of connecting threaded rod.



### Technical Specifications:



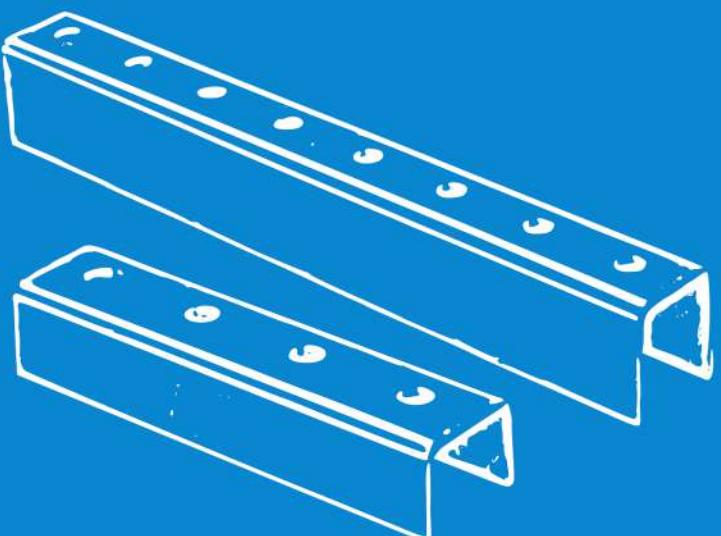
Model No.	Height (H) mm	Width (W) mm	Thickness (t) mm
NT-GC-90	90	50	6
NT-GC-152	152	50	6
NT-GC-194	194	50	6



C

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# RAIL SUPPORT SYSTEM



## NT SLOTTED CHANNEL



### FEATURES & SPECIFICATIONS:

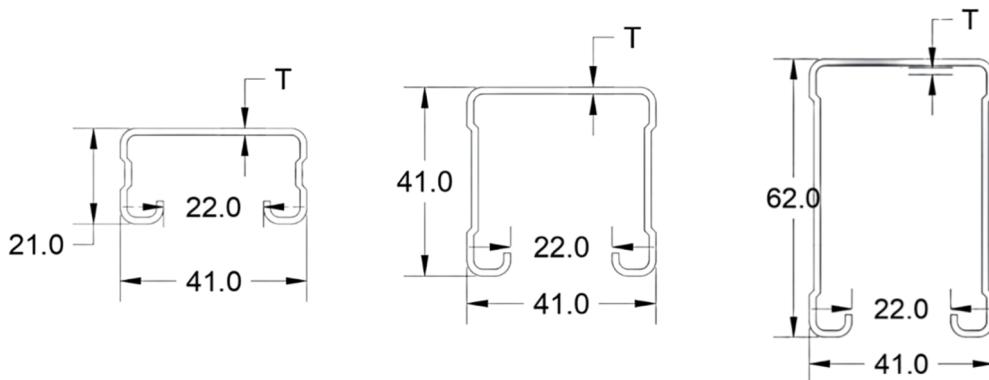
**Material:** Carbon Steel manufactured according to BS 6946:1985.

**Channel Sizes:** 41mm x 21mm, 41mm x 41mm, 41mm x 62mm, 41mm x 82 mm.

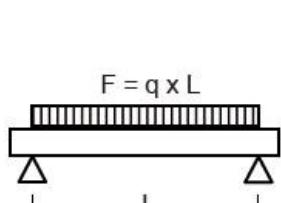
**Length:** 3m, 6m.

**Thickness:** 1.5mm, 1.8mm, 2.0mm, 2.5mm.

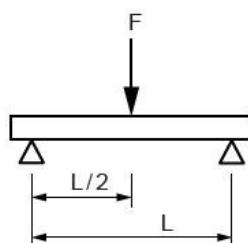
**Surface Finish:** Pre-galvanized as per (ASTM A653M Coating G90 and G 60, Hot Dipped Galvanized (ASTM 123).



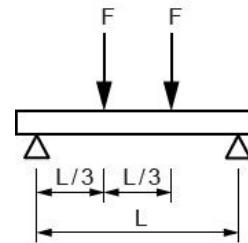
Part No.	T (mm)	W (mm)	H (mm)	IW (mm)	Length (m)
NT-21	1.5, 2.0, 2.5	41	21	22	3/6
NT-41	1.5, 2.0, 2.5	41	41	22	3/6
NT-62	2.0, 2.5	41	62	22	3/6
NT-82	2.0, 2.5	41	82	22	3/6

**LOAD V/S LENGTH GRAPH:**


Load Case 1



Load Case 2



Load Case 3

Chart: Load v/s channel length curve for NT21 Series

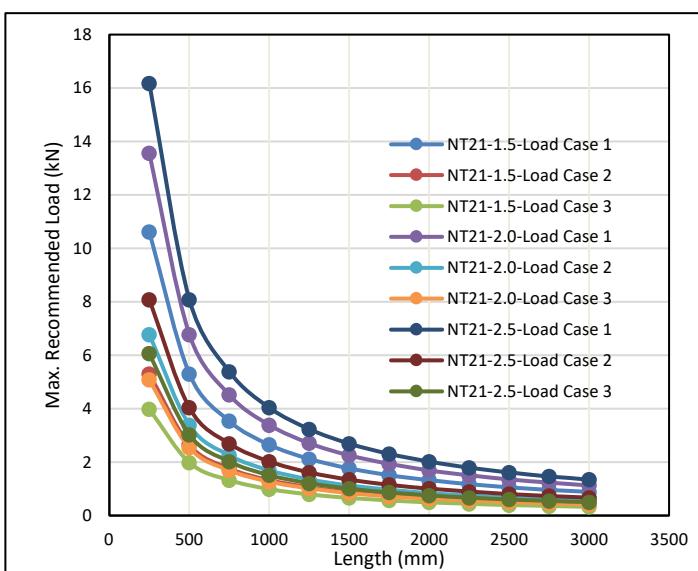


Chart: Load v/s channel length curve for NT41 Series

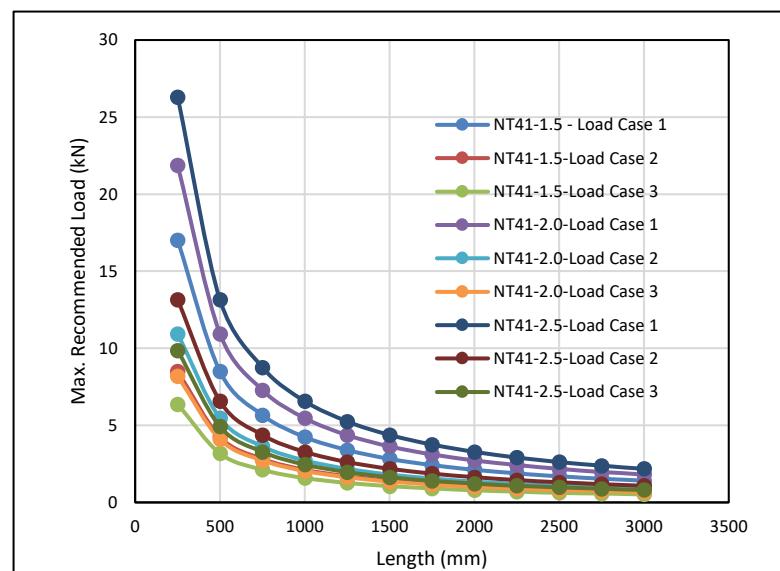


Chart: Load v/s channel length curve for NT62 Series

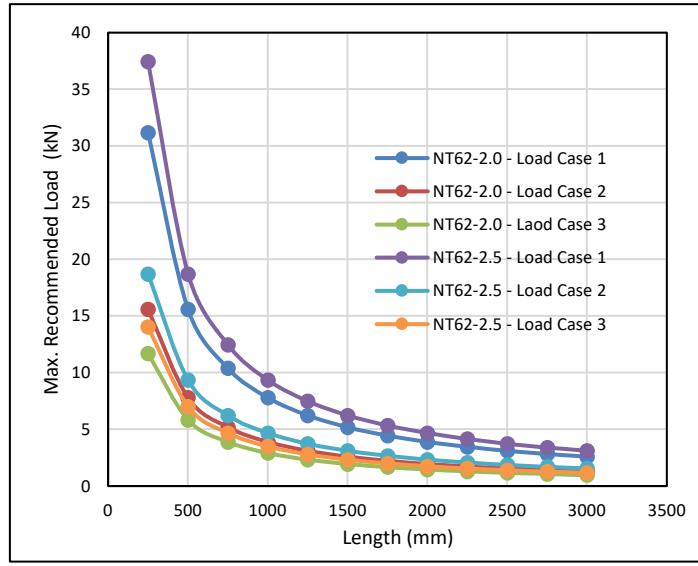
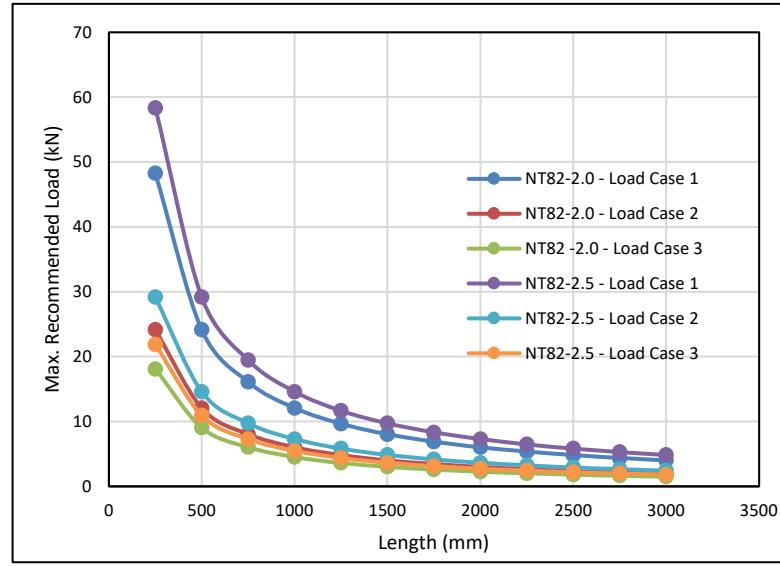


Chart: Load v/s channel length curve for 82 Series



Note: For the load curves, the permissible steel stress = 180 N/mm<sup>2</sup> and the maximum deflection under load L/200 are not exceeded. The increased yield strength is calculated according to DIN EN 1993-1-3:2010-12, sec. 3.2.2.

**Technical Details**
**NT-21 Channel**

Part No.	Channel Length L (mm)	Moment of Inertia $I_y$ (mm <sup>4</sup> )	Elastic Section Modulus $S_y$ (mm <sup>3</sup> )	Max. Recommended Load (kN)
NT-21-1.5	1000	38870	1896	2.65
NT-21-1.5	2000	38870	1896	1.33
NT-21-1.5	3000	38870	1896	0.88
NT-21-2.0	1000	49640	2422	3.39
NT-21-2.0	2000	49640	2422	1.70
NT-21-2.0	3000	49640	2422	1.13
NT-21-2.5	1000	59200	288	4.04
NT-21-2.5	2000	59200	2888	2.02
NT-21-2.5	3000	59200	2887	1.35

**NT-41 Channel**

Part No.	Channel Length L (mm)	Moment of Inertia $I_y$ (mm <sup>4</sup> )	Elastic Section Modulus $S_y$ (mm <sup>3</sup> )	Max. Recommended Load (kN)
NT-41-1.5	1000	62270	3038	4.25
NT-41-1.5	2000	62270	3038	2.13
NT-41-1.5	3000	62270	3038	1.42
NT-41-2.0	1000	80090	3907	5.74
NT-41-2.0	2000	80090	3907	2.73
NT-41-2.0	3000	80090	3907	1.82
NT-41-2.5	1000	96290	4697	6.58
NT-41-2.5	2000	96290	4697	3.29
NT-41-2.5	3000	96290	4697	2.19

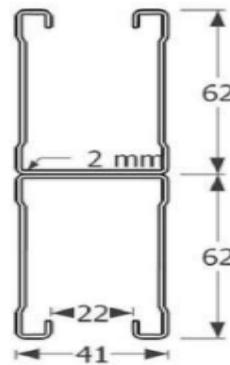
**NT-62 Channel**

Part No.	Channel Length L (mm)	Moment of Inertia $I_y$ (mm <sup>4</sup> )	Elastic Section Modulus $S_y$ (mm <sup>3</sup> )	Max. Recommended Load (kN)
NT-62-2.0	1000	184560	5567	7.79
NT-62-2.0	2000	184560	5567	3.90
NT-62-2.0	3000	184560	5567	2.60
NT-62-2.5	1000	222370	6683	9.37
NT-62-2.5	2000	222370	6683	4.68
NT-62-2.5	3000	222370	6683	3.12

**NT-82 Channel**

Part No.	Channel Length L (mm)	Moment of Inertia $I_y$ (mm <sup>4</sup> )	Elastic Section Modulus $S_y$ (mm <sup>3</sup> )	Max. Recommended Load (kN)
NT-82-2.0	1000	373330	8621	12.07
NT-82-2.0	2000	373330	8621	6.03
NT-82-2.0	3000	373330	8621	4.02
NT-82-2.5	1000	452680	10421	14.59
NT-82-2.5	2000	452680	10421	7.29
NT-82-2.5	3000	452680	10421	4.86

## NT BACK-TO-BACK SLOTTED CHANNEL



### FEATURES & SPECIFICATIONS:

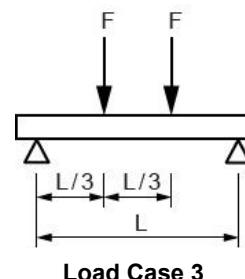
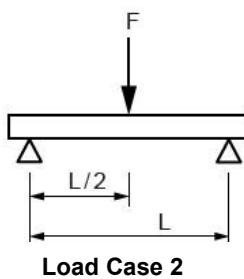
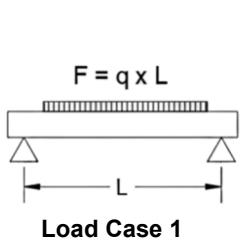
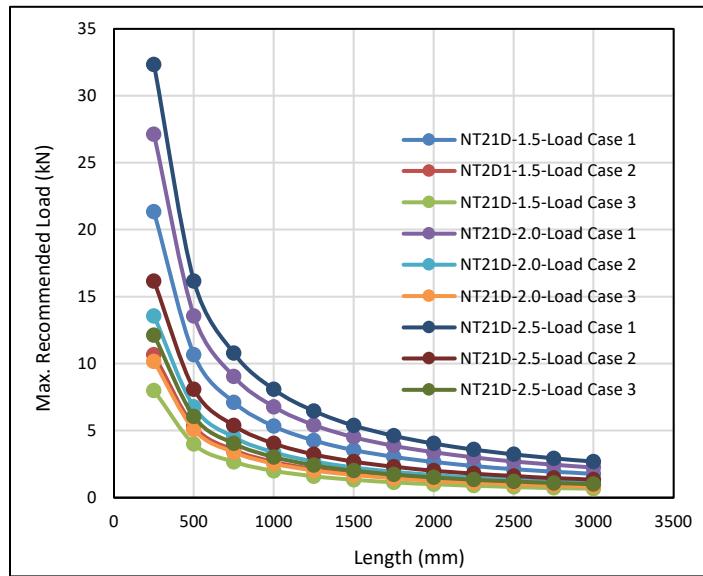
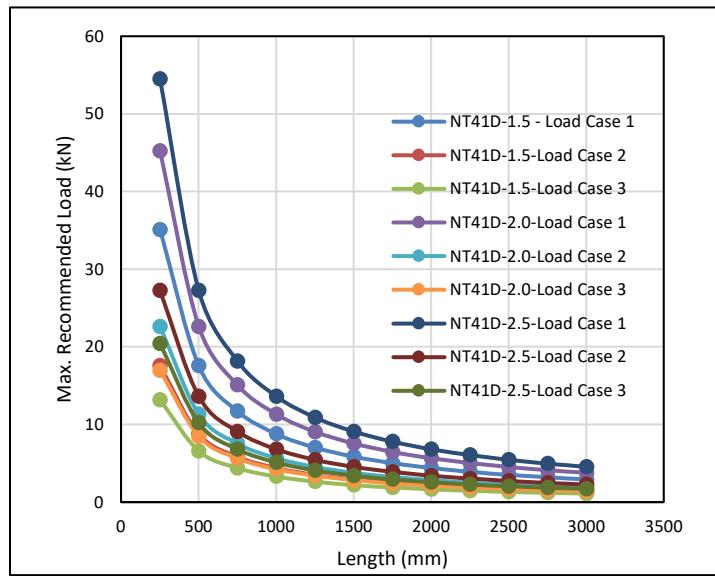
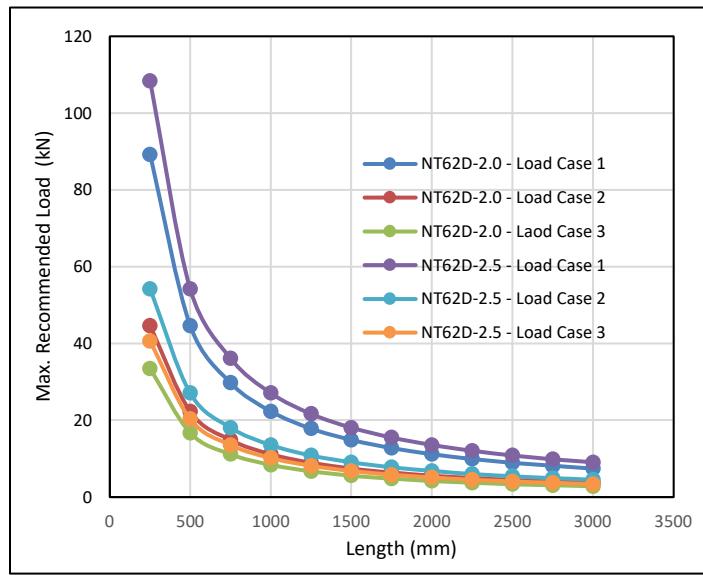
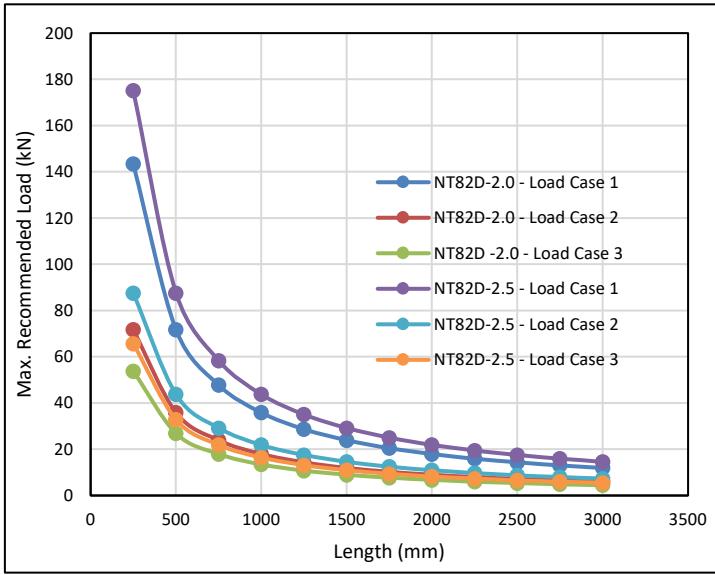
**Material:** Carbon Steel manufactured according to BS 6946:1955 **Channel Sizes:** 41mm x 21 mm, 41mm x 41mm, 41mm x 62mm **Length:** 3m, 6m

**Thickness:** 1.5mm, 1.8mm, 2.0mm, 2.5mm.

**Surface Treatment:** Pre-galvanized as per (ASTM A653M Coating G90 and G 60, Hot Dipped Galvanized (ASTM 123).



Model No.	Channel Height (mm)	Thickness (mm)	Length (m)
NTD-21	41.2	1.5, 2.0, 2.5	3/6
NTD-41	82.6	1.5, 2.0, 2.5	3/6
NTD-62	124	1.5, 2.0, 2.5	3/6

**LOAD V/S LENGTH GRAPH:****Chart: Load v/s channel length curve for NT21D Series****Chart: Load v/s channel length curve for NT41D Series****Chart: Load v/s channel length curve for NT62D Series****Chart: Load v/s channel length curve for NT82D Series**

Note: For the load curves, the permissible steel stress = 180 N/mm<sup>2</sup> and the maximum deflection under load L/200 are not exceeded. The increased yield strength is calculated according to DIN EN 1993-1-3:2010-12, sec. 3.2.2.

### Technical Details

**NTD-21 Channel**

Part No.	Channel Length L (mm)	Moment of Inertia I <sub>y</sub> (mm <sup>4</sup> )	Elastic Section Modulus S <sub>y</sub> (mm <sup>3</sup> )	Max. Recommended Load(kN)
NTD-21-1.5	1000	78150	3812	5.34
NTD-21-1.5	2000	78150	3812	2.67
NTD-21-1.5	3000	78150	3812	1.78
NTD-21-2.0	1000	99280	4843	6.78
NTD-21-2.0	2000	99280	4843	3.39
NTD-21-2.0	3000	99280	4843	2.26
NTD-21-2.5	1000	118410	5775	8.09
NTD-21-2.5	2000	118410	5775	4.04
NTD-21-2.5	3000	118410	5775	2.70

**NTD-41 Channel**

Part No.	Channel Length L (mm)	Moment of Inertia I <sub>y</sub> (mm <sup>4</sup> )	Elastic Section Modulus S <sub>y</sub> (mm <sup>3</sup> )	Max. Recommended Load(kN)
NTD-41-1.5	1000	257090	6270	8.78
NTD-41-1.5	2000	257090	6270	4.39
NTD-41-1.5	3000	257090	6270	2.93
NTD-41-2.0	1000	331330	8081	11.31
NTD-41-2.0	2000	331330	8081	5.66
NTD-41-2.0	3000	331330	8081	3.77
NTD-41-2.5	1000	399040	9733	13.63
NTD-41-2.5	2000	399040	9733	6.81
NTD-41-2.5	3000	399040	9733	4.54

**NTD-62 Channel**

Part No.	Channel Length L (mm)	Moment of Inertia I <sub>y</sub> (mm <sup>4</sup> )	Elastic Section Modulus S <sub>y</sub> (mm <sup>3</sup> )	Max. Recommended Load(kN)
NTD-62-2.0	1000	988280	15940	22.32
NTD-62-2.0	2000	988280	15940	11.16
NTD-62-2.0	3000	988280	15940	7.44
NTD-62-2.5	1000	1200540	19364	27.11
NTD-62-2.5	2000	1200540	19364	13.55
NTD-62-2.5	3000	1200540	19364	9.04

**NTD-82 Channel**

Part No.	Channel Length L (mm)	Moment of Inertia I <sub>y</sub> (mm <sup>4</sup> )	Elastic Section Modulus S <sub>y</sub> (mm <sup>3</sup> )	Max. Recommended Load(kN)
NTD-82-2.0	1000	2100270	25613	35.86
NTD-82-2.0	2000	2100270	25613	17.93
NTD-82-2.0	3000	2100270	25613	11.95
NTD-82-2.5	1000	2565020	31281	43.79
NTD-82-2.5	2000	2565020	31281	21.90
NTD-82-2.5	3000	2565020	31281	14.60

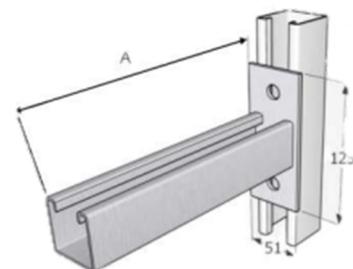
## NT CANTILEVER ARM

**Material:** carbon or stainless steel.

**Surface:** GI, HDG finish.

**Customization:** size, length and shape can be customized as per request.

Part No.	A (mm)	Uniform Load Vertical Channel (kg)
NT-CA-150	150	526
NT-CA-300	300	262
NT-CA-450	450	175
NT-CA-600	600	131
NT-CA-750	750	105
NT-CA-900	900	88

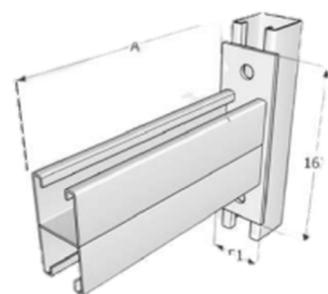


**Material:** Low-carbon steel Q235B or Stainless Steel SS304 (A4).

**Surface:** ZP, GI, HDG, SS2D finish, Epoxy powder Coating.

**Customization:** Size, length and shape can be customized as per request.

Part No.	A (mm)	Uniform Load Vertical Channel (kg)
NT-DCA-300	300	770
NT-DCA-450	450	527
NT-DCA-600	600	400
NT-DCA-750	750	330
NT-DCA-900	900	275



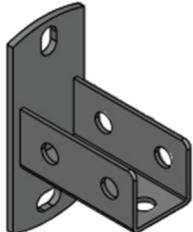
## NT BASE PLATE

**STD Dimension:** For NT41, NT62 and NT41-D, NT 62-D channels.

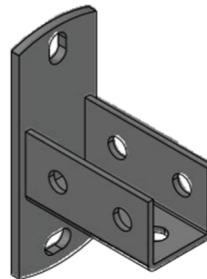
**STD Hole Dia:** 10mm, 12mm, 14mm.

**STD Material:** Carbon Steel SS304/SS316.

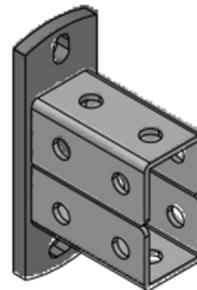
**Available Finishes:** HDG, Galvanized finish.



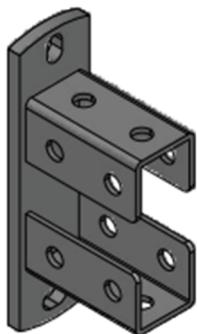
**NT BP-41-2H**



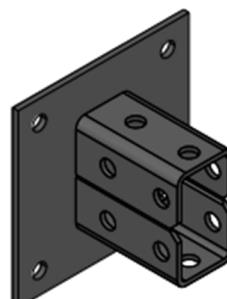
**NT BP-62-2H**



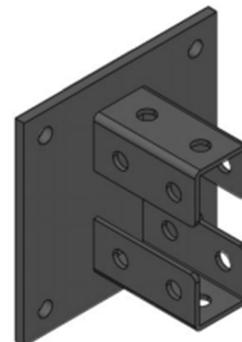
**NT BP-82-2H**



**NT BP-124-2H**



**NT BP-82-4H**



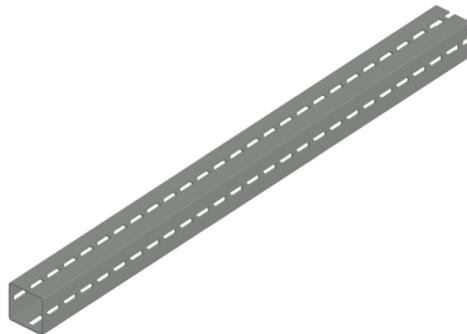
**NT BP-124-4H**

Part No.	Base Plate Size (mmxmmxmm)	Length (m)
NT-BP-41-2H	60x145x5	95
NT-BP-62-2H	60x160x6	95
NT-BP-82-2H	63x173x8	95
NT-BP-124-2H	63x215x10	95
NT-BP-82-4H	160x160x5	95
NT-BP-124-4H	180x180x8	95

## NT HEAVY DUTY PROFILE

**STD Material:** Q235B/ SS304 (A2)/ SS316 (A4) Carbon and Stainless-steel

**Available Finishes:** HDG, Galvanized finish.

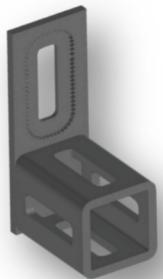


Part No.	Channel Height (mm)	Thickness (mm)	Length (m)
NTH-60	60x60	4.0	3/6
NTH-80	80x80	4.0	3/6

## NT HEAVY CHANNEL L CONNECTION CROSS BEAM CONNECTORS

**STD Material:** Q235B/ SS304 (A2) / SS316 (A4) Carbon and Stainless Steel.

**Available Finishes:** HDG, Galvanized finish.



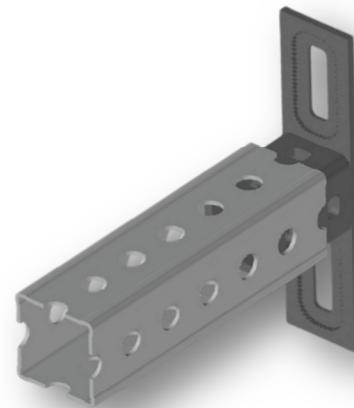
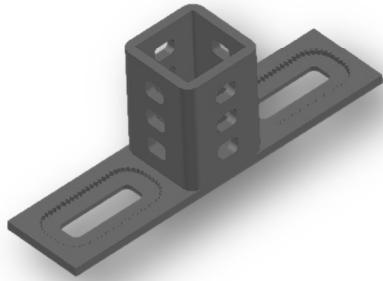
Part No.	Connector Dimensions (mm)	Thickness (mm)
NTH-60-L	120x80	6.0
NTH-80-L	160x100	6.0

**C RAIL SUPPORT**

## NT HEAVY CHANNEL U CONNECTION CANTILEVER ARM

**STD Material:** Carbon and Stainless Steel.

**Available Finishes:** HDG, Galvanized finish.

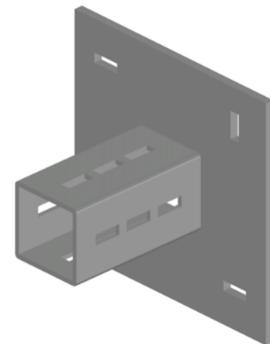


Part No.	Connector Dimensions (mm)	Thickness (mm)
NTH-60-U	240x80	6.0
NTH-80-U	300x150	6.0

## NT HEAVY CHANNEL BASE PLATE

**STG Material:** Q235B / SS304 (A2) / SS316 (A4) Carbon and Stainless Steel.

**Available Finishes:** HDG, Galvanized finish.

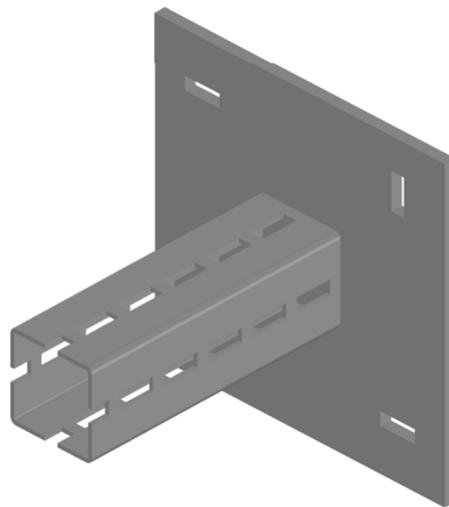


Part No.	Channel Height (mm)	Thickness (mm)
NTH-60-BP	140x140	6.0
NTH-80-BP	160x160	8.0

## NT HEAVY CHANNEL CANTILEVER

**STD Material:** Carbon and Stainless Steel

**Available Finishes:** HDG, Galvanized finish.

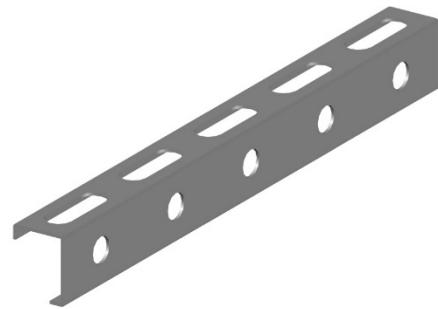


Part No.	Length (mm)
NTH-60-CA	500
NTH-60-CA	750
NTH-60-CA	1000
NTH-60-CA	1500
NTH-60-CA	2000
NTH-80-CA	500
NTH-80-CA	750
NTH-80-CA	1000
NTH-80-CA	1500
NTH-80-CA	2000

## NT-LIGHT DUTY PROFILE

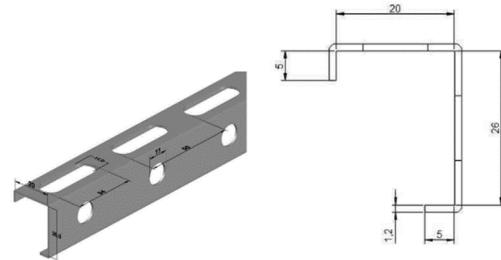
Light-duty profile

- Economical
- Rapid assembly and hence provide simplicity in installation.
- Applications include support for pipes, ducts and cable trays in dry, indoor environments.
- **Material** - S275 Steel
- **Finish** - Pre-galvanised

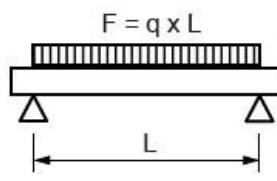


### Technical Specifications

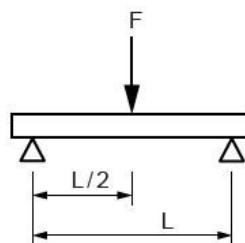
Model No.	Dimensions			Length (m)
	Width (mm)	Height (mm)	Thickness (mm)	
NTLDP2026	20	26	1.2	2.0



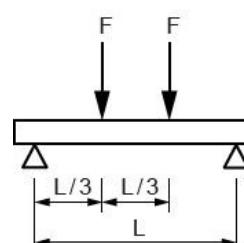
### Load Details



Load Case 1

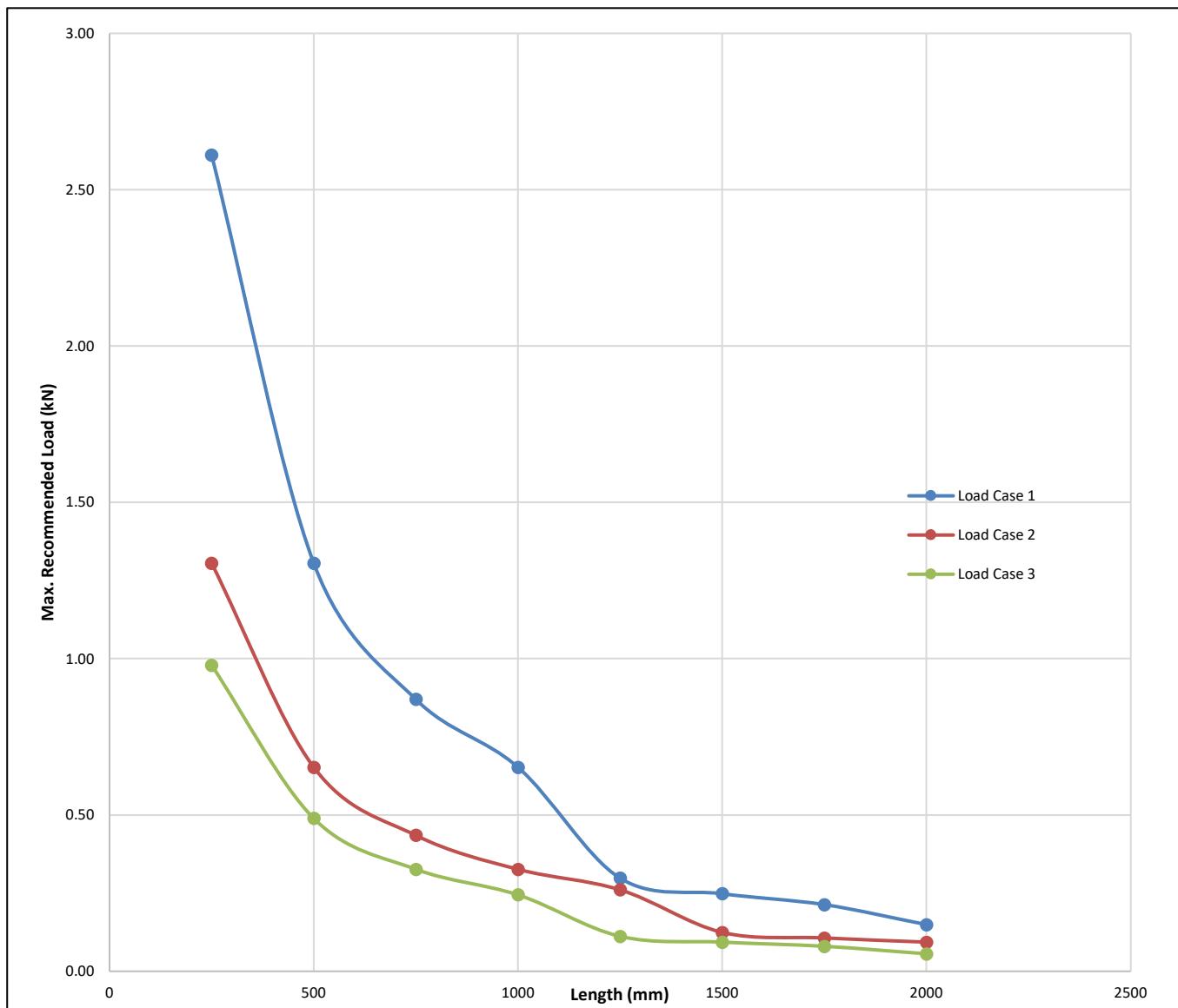


Load Case 2



Load Case 3

Sl. No.	Span (mm)	Moment Of Inertia Iy (mm <sup>4</sup> )	Elastic Section Modulus Sy (mm <sup>3</sup> )	Max. Recommended Load (kN) - Load Case 1	Max. Recommended Load (kN) - Load Case 2	Max. Recommended Load (kN) - Load Case 3
1	250	8817.03	466.267	2.61	1.31	0.98
2	500	8817.03	466.267	1.31	0.65	0.49
3	750	8817.03	466.267	0.87	0.44	0.33
4	1000	8817.03	466.267	0.65	0.33	0.24
5	1250	8817.03	466.267	0.30	0.26	0.11
6	1500	8817.03	466.267	0.25	0.12	0.09
7	1750	8817.03	466.267	0.21	0.11	0.08
8	2000	8817.03	466.267	0.15	0.09	0.06

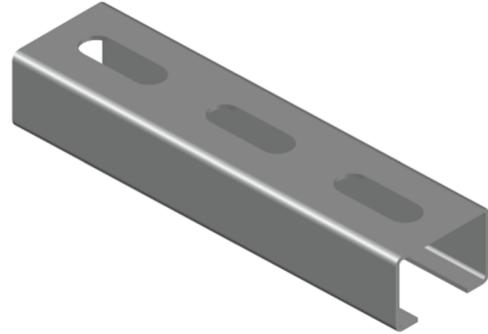
Load v/s span curve for NTLDP2026 profile

Note: For the load curves, the permissible steel stress = 180 N/mm<sup>2</sup> and the maximum deflection under load L/200 are not exceeded. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

## NT-LIGHT DUTY PROFILE

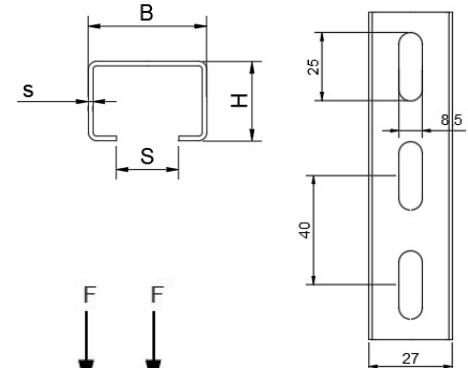
Light-duty profile

- C-profile
- With continuous slotted design.
- Allows for easy and quick fixing.
- **Material** – Steel S250
- **Finish** – Pre-galvanised

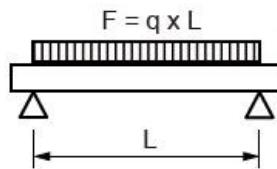


### Technical Specifications

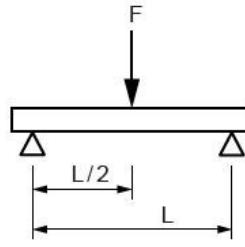
Model No.	Dimensions				Length (m)
	B (mm)	H (mm)	s (mm)	S (mm)	
NTLDP2718	27	18	1.2	15	2.0



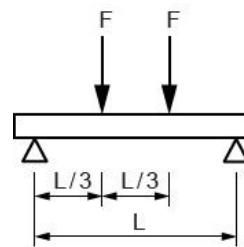
### Load Details



Load Case 1

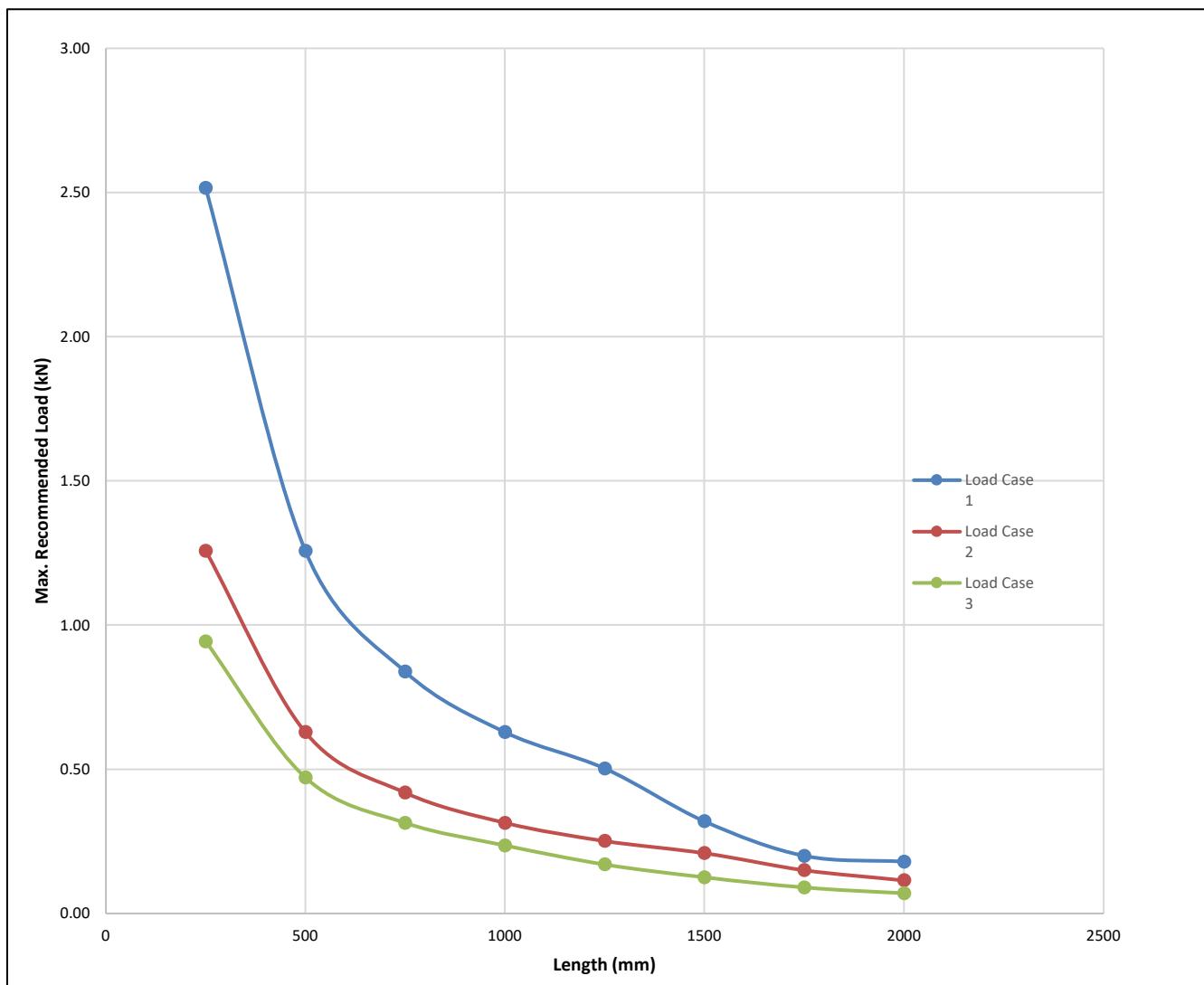


Load Case 2



Load Case 3

Sl. No.	Span (mm)	Moment Of inertia Iy (mm <sup>4</sup> )	Elastic Section Modulus Sy (mm <sup>3</sup> )	Max. Recommended Load (kN) - Load Case 1	Max. Recommended Load (kN) - Load Case 2	Max. Recommended Load (kN) - Load Case 3
1	250	9796.238	349.379	2.52	1.26	0.94
2	500	9796.238	349.379	1.26	0.63	0.47
3	750	9796.238	349.379	0.84	0.42	0.31
4	1000	9796.238	349.379	0.63	0.31	0.24
5	1250	9796.238	349.379	0.50	0.25	0.17
6	1500	9796.238	349.379	0.32	0.21	0.13
7	1750	9796.238	349.379	0.20	0.15	0.09
8	2000	9796.238	349.379	0.18	0.12	0.07

Load v/s span curve for NTLDP2718 profile

Note: For the load curves, the permissible steel stress = 180 N/mm<sup>2</sup> and the maximum deflection under load L/200 are not exceeded. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

## THREADED ROD

### Standard

- ASTM/ASME/BS/DIN / BS EN ISO

**Size :** 2-56 to 2"

**Length :** 1' to 12'

**Threads :** UNC, 8UN, UNF, Metric Coarse & Fine Series



Part No.	Size
NT-TR M06	6mm
NT-TR M08	8mm
NT-TR M10	10mm
NT-TR M12	12mm
NT-TR M16	16mm
NT-TR M18	18mm
NT-TR M20	20mm
NT-TR M22	22mm
NT-TR M24	24mm

## EYE NUT

Stainless Steel options can be provided on request



Part No.	Size
NT-306-EN	6mm
NT-308-EN	8mm
NT-310-EN	10mm
NT-312-EN	12mm
NT-316-EN	16mm
NT-318-EN	18mm
NT-320-EN	20mm
NT-322-EN	22mm
NT-324-EN	24mm

## FLAT WASHER

### Technical Specifications

- Electro galvanized as per ASTM B 633 Standards
- Hot dip galvanized and Stainless Steel options can be provided on request.



Part No.	Size	Inside Diameter (mm)	Outside Diameter	Thickness (mm)
NT-206-FW	M6	6.4	12	1.6
NT-208-FW	M8	8.4	16	1.6
NT-210-FW	M10	10.5	20	2.0
NT-212-FW	M12	13	24	2.5
NT-216-FW	M16	17	30	3.0
NT-218-FW	M18	19	34	3.0
NT-220-FW	M20	21	37	3.0
NT-222-FW	M22	23	39	3.0
NT-224-FW	M24	25	44	4.0

## U WASHER

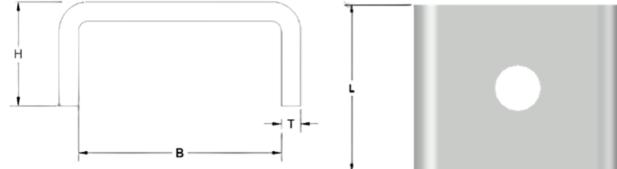
### Product Features

- Easy to install and allows subsequent adjustment of the channels



### Technical Specifications

- Electro galvanized as per ASTM B 633 Standards Hot dipped galvanized can be provided on request.



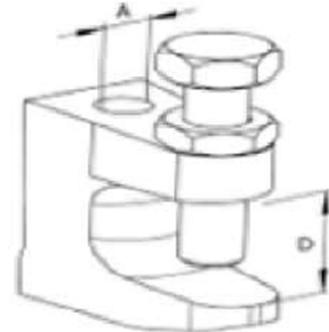
Part No.	Size	Inside Diameter (mm)	Outside Diameter (mm)	Thickness (mm)
NT-206-UW	M6	6.4	12	1.6
NT-208-UW	M8	8.4	16	1.6
NT-210-UW	M10	10.5	20	2.0
NT-212-UW	M12	13	24	2.5
NT-216-UW	M16	17	30	3.0
NT-218-UW	M18	19	34	3.0
NT-220-UW	M20	21	37	3.0
NT-222-UW	M22	23	39	3.0
NT-224-UW	M24	25	44	4.0

## ROD BEAM CLAMP



### Product Features

- Easy to install and allows subsequent adjustment of the channels
- Allows fixing without welding and drilling
- High loading capacity

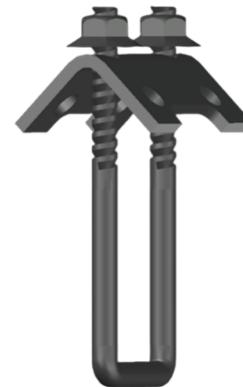


### Technical Specifications

- Material: Ductile cast iron body according to ASTM A536
- Hex bolt according to DIN A307 and nut according to DIN 934 with steel Grade of 4.8/8.8.
- Electro galvanized as per ASTM B 633 Standards Hot dipped galvanized can be provided on request.

Part No.	Clamping Range D(mm)	Size A(mm)	Max Recommended Load N <sub>recom</sub> (kN)	Max Design Load N <sub>design</sub> (kN)	Pack Size
NT-M8-RBC	0-18	M8	1.2	1.6	100 pcs
NT-M10-RBC	0-20	M10	2.4	1.5	100 pcs
NT-M12-RBC	0-23	M12	3.6	5.1	150 pcs
NT-M16-RBC	0-26	M16	5.5	7.5	150 pcs

## CHANNEL BEAM CLAMP

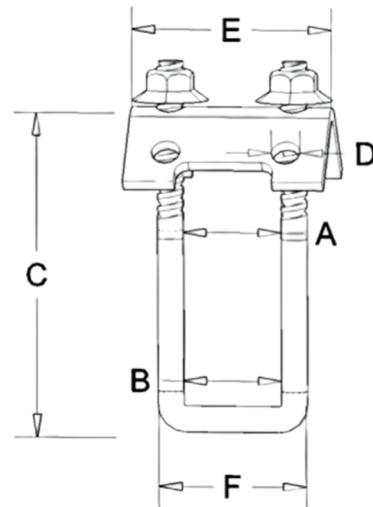


### Product Features

- Easy to install and allows subsequent adjustment of the channels
- Allows fixing without welding and drilling
- High loading capacity

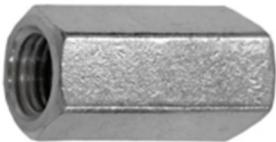
### Technical Specifications

- Material: Ductile cast iron body according to ASTM A536
- Hex bolt according to DIN A307 and nut according to DIN 934 with steel Grade of 4.8/8,8.
- Electro galvanized as per ASTM B 633 Standards Hot dipped galvanized can be provided on request.



Part No.	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
NT-97-CBC	39	44	97	11.5	79	64
NT-137-CBC	39	44	137	11.5	79	64
NT-179-CBC	39	44	179	11.5	79	64

## THREAD ROD CONNECTOR

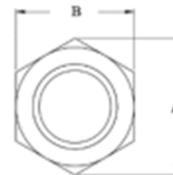


### Product Features

- Internally threaded nuts that are longer than regular nuts.
- This nut is ideal for connecting threaded rods together.

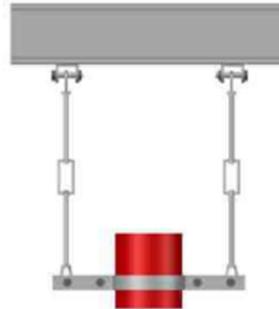
### Technical Specifications

- **Material:** Carbon Steel
- **Size Range:** M6 to M20



Part No	Size	A(mm)	B(mm)	Length, L(mm)
NT-TRC-06	M6	11.1	10	18
NT-TRC-08	M8	15	13	24
NT-TRC-10	M10	19.6	17	30
NT-TRC-12	M12	21.9	19	36
NT-TRC-16	M16	27.7	24	48
NT-TRC-20	M20	34.6	30	60

## STEEL TURNBUCKLE

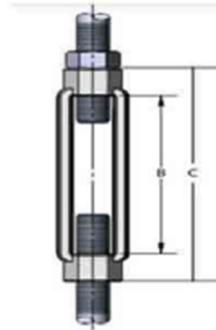


### Product Features

- Can be used for both lifting and lashing
- It is an essential tool for increasing or decreasing tension when adjustments are needed in a cable or wire.

### Technical Specifications

- Materials: Carbon Steel
- Designed to meet MSS SP-58 Type-10
- Designed to meet MSS SP-58 Type-10
- Electrogalvanized as per ASTM B 633 Standards
- Hot dipped galvanized and stainless-steel options for adverse corrosive (C4 and higher) atmospheric conditions available.



Part No	Size (Inches)	B (mm)	C(mm)	Weight of 1 unit (kg)	Max Design Load (kN)	Max Recommended Load (kN)
NT-TS-010	3/8"	152	178	0.19	3.26	2.44
NT-TS-012	1/2"	152	178	0.29	6.12	4.58
NT-TS-016	5/8"	152	178	0.44	9.79	7.30
NT-TS-020	3/4"	152	203	0.68	14.65	10.97
NT-TS-022	7/8"	152	203	0.86	20.23	15.24
NT-TS-025	1"	152	228	1.17	26.76	20.04
NT-TS-028	1 1/8"	152	228	1.90	28.25	25.21
NT-TS-032	1 1/4"	152	228	2.04	43.09	32.38
NT-TS-038	1 1/2"	152	228	2.90	62.59	47.03

## CHANNEL NUT

### Standard

ASTM/ASME/BS/DIN / BS EN ISO

### Size

M3 – M56 | 3/6" TO 2" | Custom Sizes

### Threads

UNC, 8UN, UNF, Metric Coarse & Fine Series



Part No	Size	Square nut (Length X Thickness)	Spring Nut (L X W)	Spring Length (mm)
NT-CN-06	M6	35 x 10	34.5 X 19	13,33
NT-CN-08	M8	35 x 10	34.5 X 19	13,33
NT-CN-10	M10	35 x 10	34.5 X 19	13,33
NT-CN-12	M12	35 x 10	34.5 X 19	13,33
NT-CN-14	M14	35 x 10	34.5 X 30	13,33
NT-CN-16	M16	35 x 10	34.5 X 30	13,33
NT-CN-18	M18	35 x 10	34.5 X 30	13, 33

## SPRING NUT

### Standard

ASTM/ASME/BS/DIN / BS EN ISO

### Size

M3 – M56 | 3/6" TO 2" | Custom Sizes

### Threads

UNC, 8UN, UNF, Metric Coarse & Fine Series



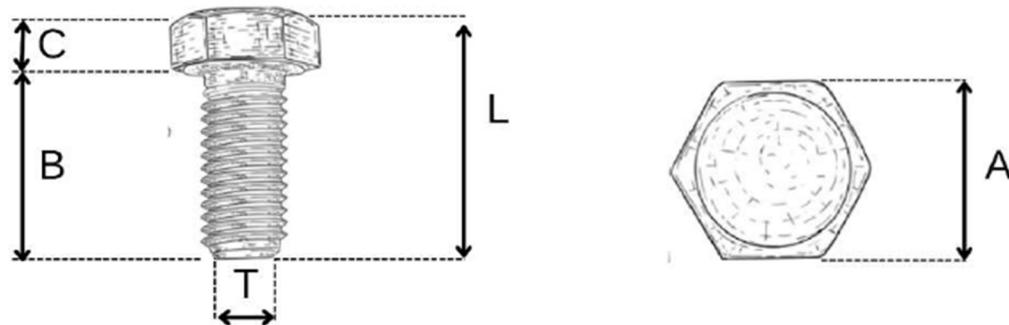
Part No	Size	Length (mm)	Width (mm)	Thickness (mm)
NT-SN-06	M6	34.5	19	6.0
NT-SN-08	M8	34.5	19	8.0
NT-SN-10	M10	34.5	19	9.0
NT-SN-12	M12	34.5	19	10.5
NT-SN-14	M14	34.5	30	11
NT-SN-16	M16	34.5	30	11
NT-SN-18	M18	34.5	30	11

# C RAIL SUPPORT

## HEXAGONAL BOLT

### Product Specifications

- Material:** Steel (Gr. 4.6, 5.8, 8.8)
- Finish :** Electro galvanized (as per ASTM B633)  
Hot dip galvanized (as per ASTM A123)  
Stainless Steel A4

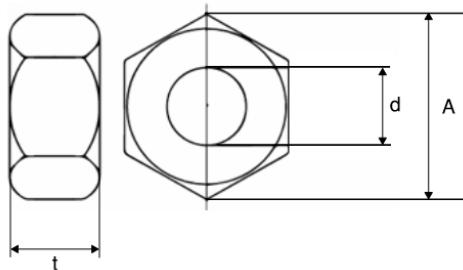


Part No.	T	B(mm)	C(mm)	A(mm)	L
NT-HB-0630	M6	30	4.0	10	34
NT-HB-0830	M8	30	5.3	13	35
NT-HB-0840	M8	40	5.3	13	45
NT-HB-1025	M10	25	6.4	17	31
NT-HB-1030	M10	30	6.4	17	36
NT-HB-1040	M10	40	6.4	17	46
NT-HB-1225	M12	25	7.5	19	32
NT-HB-1230	M12	30	7.5	19	37
NT-HB-1240	M12	40	7.5	19	48
NT-HB-1430	M14	30	8.8	22	38
NT-HB-1650	M16	50	10.0	24	60
NT-HB-2080	M20	80	12.5	30	93

## HEXAGONAL NUT

### Product Specifications

- Material:** Steel
- Finish :** Electro galvanized (as per ASTM B633)  
Hot dip galvanized (as per ASTM A123)  
Stainless Steel A4



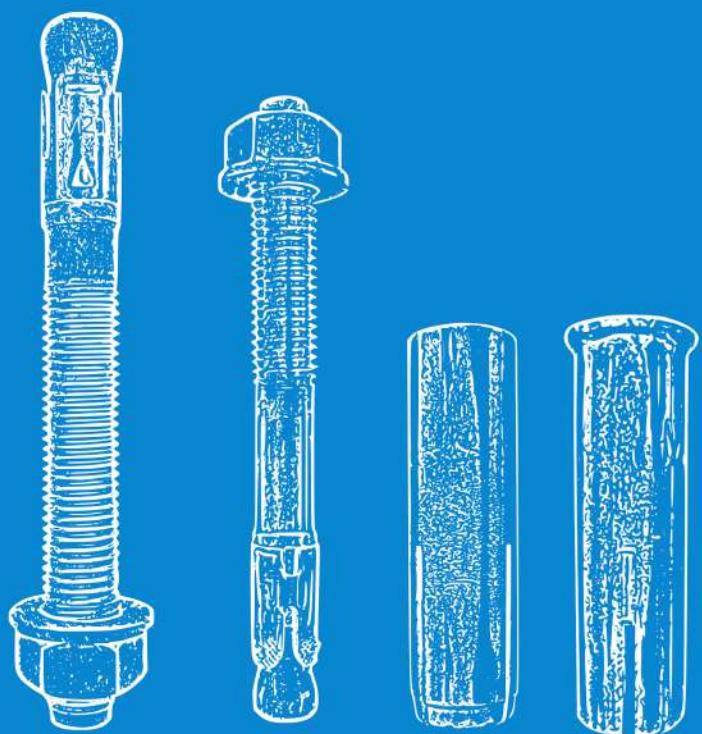
Part No.	d	A(mm)	t(mm)
NT-HN-06	M6	9.78	4.7
NT-HN-08	M8	12.73	6.14
NT-HN-10	M10	16.73	7.64
NT-HN-12	M12	18.67	9.64
NT-HN-14	M14	21.67	10.3
NT-HN-16	M16	23.67	12.1
NT-HN-20	M20	29.67	15.3



D

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# ANCHORING SYSTEM



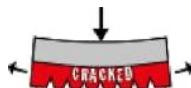
## THROUGH BOLT NT-TB1

### Product Features

- Through anchor with external thread for middle-heavy duty loads.
- Suitable for cracked and non-cracked concrete.
- Diameters from 6 to 27 mm.
- Driving torque-controlled expansion.
- Expansion clip with anti-rotation fins



### | Load data |



Part No.	Concrete Grade $f_{ck}/f_{ck, cube}$ [N/mm $^2$ ]	Average Ultimate Tension Load $N_{Rum}$ [kN]	Average Ultimate Shear Load $V_{Rum}$ [kN]	Admissible Tensile Load $N_{rec}$ [kN]	Admissible Shear Load $V_{rec}$ [kN]	Admissible Bending Moment $M_{rec}$ [Nm]
NT-TB- M8	C20/25	9.5-8.0	14.5	2.4	7.0	13.1
NT-TB- M10	C20/25	13.6-11.3	24.0	4.3-3.6	11.5-10.4	26.9
NT-TB- M12	C20/25	25.7-16.0	36.1	7.6-6.1	17.1-14.5	46.9
NT-TB- M16	C20/25	32.4-25.7	60.0	11.9-9.0	31.4-21.6	123.4
NT-TB- M20	C20/25	49.6	89.0	17.1	37.1	195.0
NT-TB- M24	C20/25	72.8	131.8	21.1	59.2	513.1
NT-TB- M27	C20/25	73.0	181.7	24.0	67.1	760.9

# D ANCHORING SYSTEM



## | Size Specifications |

Part No.	Thread Diameter d [mm]	Outside Diameter of Anchor $d_{nom}$ [mm]	Total Length of Anchor L [mm]	Thread Diameter x Length dxL [mmxmm]	Fixture Thickness (Max) T fix [mm]	Qty/Box
NT-TB-M8-10-21/75	M8	8	75	M8 × 32	10-21	100
NT-TB-M8-15-26/80	M8	8	80	M8 × 37	15-26	100
NT-TB-M8-30-41/95	M8	8	95	M8 × 52	30-41	100
NT-TB-M8-50-61/115	M8	8	115	M8 × 72	50-61	100
NT-TB-M8-100-111/165	M8	8	165	M8 × 122	100-111	50
NT-TB-M10-30/90	M10	10	90	M10 × 42	10-30	50
NT-TB-M10-15-35/95	M10	10	95	M10 × 47	15-35	50
NT-TB-M10-20-40/100	M10	10	100	M10 × 52	20-40	50
NT-TB-M10-30-50/110	M10	10	110	M10 × 62	30-50	50
NT-TB-M10-50-70/130	M10	10	130	M10 × 82	50-70	50
NT-TB-M10-75-95/155	M10	10	155	M10 × 107	75-95	50
NT-TB-M10-100-120/180	M10	10	180	M10 × 132	100-120	50
NT-TB-M10-150/230	M10	10	230	M10 × 80	150	25
NT-TB-M12-10-30/105	M12	12	105	M12 × 46	10-30	25
NT-TB-M12-15-35/110	M12	12	110	M12 × 51	15-35	25
NT-TB-M12-20-40/115	M12	12	115	M12 × 56	20-40	25
NT-TB-M12-30-50/125	M12	12	125	M12 × 66	30-50	25
NT-TB-M12-50-70/145	M12	12	145	M12 × 86	50-70	25
NT-TB-M12-65-85/160	M12	12	160	M12 × 101	65-85	25
NT-TB-M12-85-105/180	M12	12	180	M12 × 121	85-105	25
NT-TB-M12-105-125/200	M12	12	200	M12 × 141	100-125	25
NT-TB-M12-125/220	M12	12	220	M12 × 80	125	25
NT-TB-M12-145/240	M12	12	240	M12 × 80	145	20
NT-TB-M12-160/255	M12	12	255	M12 × 80	160	20
NT-TB-M12-190/285	M12	12	285	M12 × 80	190	20
NT-TB-M16-50-70/170	M16	16	170	M16 × 91	50-70**	20
NT-TB-M16-80-100/200	M16	16	200	M16 × 121	80-100**	10
NT-TB-M16-100/220	M16	16	220	M16 × 80	100	10
NT-TB-M16-140/260	M16	16	260	M16 × 80	140	10
NT-TB-M16-180/300	M16	16	300	M16 × 80	180	10
NT-TB-M24-60/220	M24	24	220	M24 × 85	60	5
NT-TB-M24-75/235	M24	24	235	M24 × 100	75	5
NT-TB-M24-100/260	M24	24	260	M24 × 125	100	5
NT-TB-M27-30/210	M27	27	210	M27 × 62	30	5
NT-TB-M27-60/240	M27	27	240	M27 × 92	60	5
NT-TB-M27-100/280	M27	27	280	M27 × 132	100	5

## D ANCHORING SYSTEM

### THROUGH BOLT NWS-CE1

- ETA approved anchors for Seismic categories C1 and C2.
- Suitable for cracked and non-cracked concrete. Rapid application for through fastenings.
- Diameters from 6 to 27 mm.
- Driving torque-controlled expansion.
- Expansion clip with anti-rotation fins.



| Load data | 

Part No ETA CE	Concrete fck/fck,cube [N/mm <sup>2</sup> ]	Average Ultimate Tension Load NRum [kN]	Average Ultimate Shear Load VRum [kN]	Admissible Tensile Load Nrec [kN]	Admissible Shear Load Vrec [kN]	Admissible Bending Moment Mrec [Nm]
NWS-CE1 M8	C20/25	9,5-8,0**	14,5-14,5**	2,4-2,4**	7,0-7,0**	13,1
NWS-CE1 M10	C20/25	13,6-11,3**	24,0-24,0**	4,3-3,6**	11,5-10,4**	26,9
NWS-CE1 M12	C20/25	25,7-16,0**	36,1-36,1**	7,6-6,1**	17,1-14,5**	46,9
NWS-CE1 M16	C20/25	32,4-25,7**	60,0-60,0**	11,9-9,0**	31,4-21,6**	123,4
NWS-CE1 M20	C20/25	49,6	89,0	17,1	37,1	195,0
NWS-CE1 M24	C20/25	72,8	131,8	21,1	59,2	513,1
NWS-CE1 M27	C20/25	73,0	181,7	24,0	67,1	760,9



Part No ETA CE	Concrete fck/fck,cube [N/mm <sup>2</sup> ]	Average Ultimate Tension Load NRum [kN]	Average Ultimate Shear Load VRum [kN]	Admissible Tensile Load Nrec [kN]	Admissible Shear Load Vrec [kN]	Admissible Bending Moment Mrec [Nm]
NWS-CE1 M8	C20/25	13,4-10,8**	14,5-14,5**	5,7-3,6**	7,0-7,0**	13,1
NWS-CE1 M10	C20/25	19,4-15,3**	24,0-24,0**	7,6-4,3**	11,5-11,5**	26,9
NWS-CE1 M12	C20/25	31,1-25,5**	36,1-36,1**	11,9-8,5**	17,1-17,1**	46,9
NWS-CE1 M16	C20/25	41,0-33,0**	60,0-60,0**	16,7-12,6**	31,4-30,2**	123,4
NWS-CE1 M20	C20/25	55,0	89,0	24,0	37,1	195,0
NWS-CE1 M24	C20/25	90,4	131,8	29,7	65,1	513,1
NWS-CE1 M27	C20/25	84,7	181,7	33,6	94,1	760,9

# D ANCHORING SYSTEM



## | Size Specifications |

Part No	Thread Diameter d [mm]	Outside Diameter of Anchor d <sub>nom</sub> [mm]	Total Length of Anchor L [mm]	Thread Diameter x Length dxL [mm x mm]	Fixture Thickness (Max) t <sub>fix</sub> [mm]	Qty/Box
NWS-CE1 8-10-21/75	M8	8	75	M8 x 32	C1 C2 10-21	100
NWS-CE1 8-15-26/80	M8	8	80	M8 x 37	C1 C2 15-26	100
NWS-CE1 8-30-41/95	M8	8	95	M8 x 52	C1 C2 30-41	100
NWS-CE1 8-50-61/115	M8	8	115	M8 x 72	C1 C2 50-61	100
NWS-CE1 8-100-111/165	M8	8	165	M8 x 122	C1 C2 100-111	50
NWS-CE1 10-10-30/90	M10	10	90	M10 x 42	C1 C2 10-30	50
NWS-CE1 10-15-35/95	M10	10	95	M10 x 47	C1 C2 15-35	50
NWS-CE1 10-20-40/100	M10	10	100	M10 x 52	C1 C2 20-40	50
NWS-CE1 10-30-50/110	M10	10	110	M10 x 62	C1 C2 30-50	50
NWS-CE1 10-50-70/130	M10	10	130	M10 x 82	C1 C2 50-70	50
NWS-CE1 10-75-95/155	M10	10	155	M10 x 107	C1 C2 75-95	50
NWS-CE1 10-100-120/180	M10	10	180	M10 x 132	C1 C2 100-120	50
NWS-CE1 12-10-30/105	M12	12	105	M12 x 46	C1 C2 10-30	25
NWS-CE1 12-15-35/110	M12	12	110	M12 x 51	C1 C2 15-35	25
NWS-CE1 12-20-40/115	M12	12	115	M12 x 56	C1 C2 20-40	25
NWS-CE1 12-30-50/125	M12	12	125	M12 x 66	C1 C2 30-50	25
NWS-CE1 12-50-70/145	M12	12	145	M12 x 86	C1 C2 50-70	25
NWS-CE1 12-65-85/160	M12	12	160	M12 x 101	C1 C2 65-85	25
NWS-CE1 12-85-105/180	M12	12	180	M12 x 121	C1 C2 85-105	25
NWS-CE1 12-105-125/200	M12	12	200	M12 x 141	C1 C2 100-125	25
NWS-CE1 16-15-35/135	M16	16	135	M16 x 56	C1 C2 15-35**	20
NWS-CE1 16-25-45/145	M16	16	145	M16 x 66	C1 C2 25-45**	20
NWS-CE1 16-50-70/170	M16	16	170	M16 x 91	C1 C2 50-70**	20
NWS-CE1 16-80-100/200	M16	16	200	M16 x 121	C1 C2 80-100**	10
NWS-CE1 20-30/165	M20	20	165	M20 x 50	C1 C2 30	10
NWS-CE1 20-60/195	M20	20	195	M20 x 70	C1 C2 60	10

## THROUGH BOLT NT-TB7

Through anchor with external thread for

- middle-heavy duty loads.
- Suitable for non-cracked concrete.
- Diameters from 6 to 20 mm.
- Driving torque-controlled expansion.
- Expansion clip with anti-rotation fins



Part No ETA CEE	Concrete fck/fck,cube [N/mm <sup>2</sup> ]	Average Ultimate Tension Load NRum [kN]	Average Ultimate Shear Load VRum [kN]	Admissible Tensile Load Nrec [kN]	Admissible Shear Load Vrec [kN]	Admissible Bending Moment Mrec [Nm]
NT-TB7-M6	C20/25	10,7	6,2	3,8	2,9	4,4
NT-TB7-M8	C20/25	17,6-13,6**	16,5-10,9**	6,6-4,8**	5,3-4,9**	10,9
NT-TB7-M10	C20/25	21,8-17,9**	20,8-17,4**	9,0-6,5**	8,4-6,5**	21,7
NT-TB7-M12	C20/25	34,5-23,2**	32,8-23,0**	12,6-8,5**	11,7-8,4**	36,6
NT-TB7-M14	C20/25	41,8	36,8	15,6	16,0	58,4
NT-TB7-M16	C20/25	51,8	48,3	18,5	21,9	93,2
NT-TB7-M 20	C20/25	70,5	77,3	25,1	32,1	170,5

- Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2h_{ef}$   
Shear directed away from the edge
- General safety factor included
- Load increasing safety coefficient used = 1,4
- (\*\*\*) Reduced embedment depth

# D ANCHORING SYSTEM



## | Size Specifications |

Part No	Thread Diameter d [mm]	Diameter Of Anchor dnom [mm]	Length Of Anchor L [mm]	Thread Diameter X Length dxL [mm x mm]	Thickness (Max) tfix [mm]	Qty/Box
NT-TB7-M6-60	M6	6	60	M6 x 27	2	200
NT-TB7-M6-70	M6	6	70	M6 x 37	12	200
NT-TB7-M6-80	M6	6	80	M6 x 47	22	200
NT-TB7-M6-90	M6	6	90	M6 x 57	32	200
NT-TB7-M6-100	M6	6	100	M6 x 67	42	200
NT-TB7-M6-110	M6	6	110	M6 x 77	52	200
NT-TB7-M6-120	M6	6	120	M6 x 87	62	100
NT-TB7-M6-130	M6	6	130	M6 x 97	72	100
NT-TB7-M6-140	M6	6	140	M6 x 107	82	100
NT-TB7-M8-60	M8	8	60	M8 x 25	3**	200
NT-TB7-M8-75	M8	8	75	M8 x 39	5-18**	100
NT-TB7-M8-90	M8	8	90	M8 x 54	20-33**	100
NT-TB7-M8-115	M8	8	115	M8 x 79	45-58**	100
NT-TB7-M8-130	M8	8	130	M8 x 94	60-73**	100
NT-TB7-M10-70	M10	10	70	M10 x 29	3**	100
NT-TB7-M10-80	M10	10	80	M10 x 39	13**	100
NT-TB7-M10-90	M10	10	90	M10 x 49	10-23**	100
NT-TB7-M10-100	M10	10	100	M10 x 59	20-33**	100
NT-TB7-M10-120	M10	10	120	M10 x 79	40-53**	50
NT-TB7-M10-150	M10	10	150	M10 x 109	70-83**	50
NT-TB7-M10-170	M10	10	170	M10 x 129	90-103**	50
NT-TB7-M10-210	M10	10	210	M10 x 169	130-143**	50
NT-TB7-M10-230	M10	10	230	M10 x 189	150-163**	50
NT-TB7-M12-90	M12	12	90	M12 x 38	13**	50
NT-TB7-M12-100	M12	12	100	M12 x 48	23**	50
NT-TB7-M12-110	M12	12	110	M12 x 58	18-33**	50
NT-TB7-M12-120	M12	12	120	M12 x 68	28-43**	50
NT-TB7-M12-140	M12	12	140	M12 x 88	48-63**	50
NT-TB7-M12-160	M12	12	160	M12 x 108	68-83**	50
NT-TB7-M12-180	M12	12	180	M12 x 128	88-103**	50
NT-TB7-M12-220	M12	12	220	M12 x 168	128-143**	50
NT-TB7-M12-250	M12	12	250	M12 x 198	158-173**	25
NT-TB7-M14-120	M14	14	120	M14 x 63	12	25
NT-TB7-M14-145	M14	14	145	M14 x 88	37	25
NT-TB7-M14-170	M14	14	170	M14 x 113	62	25
NT-TB7-M14-220	M14	14	220	M14 x 163	112	25
NT-TB7-M14-250	M14	14	250	M14 x 193	142	25
NT-TB7-M16-125	M16	16	125	M16 x 60	3-22**	25
NT-TB7-M16-145	M16	16	145	M16 x 80	23-42**	25
NT-TB7-M16-175	M16	16	175	M16 x 110	53-72**	25
NT-TB7-M16-220	M16	16	220	M16 x 155	98-117**	25
NT-TB7-M16-250	M16	16	250	M16 x 185	128-147**	25
NT-TB7-M16-280	M16	16	280	M16 x 215	158-177**	25
NT-TB7-M20-170	M20	20	170	M20 x 102	23-49**	20
NT-TB7-M20-220	M20	20	220	M20 x 152	73-99**	20
NT-TB7-M20-270	M20	20	270	M20 x 202	123-149**	20

## D ANCHORING SYSTEM

### NT-TB-A2

- Through anchor with external thread for middle-heavy duty loads.
- Suitable for non-cracked concrete.
- Diameters from 6 to 20 mm.
- Driving torque-controlled expansion.
- Expansion clip with anti-rotation fins

| Load data |



Part No	Concrete fck/fck,cube [N/mm <sup>2</sup> ]	Average Ultimate Tension Load N <sub>Rum</sub> [kN]	Average Ultimate Shear Load V <sub>Rum</sub> [kN]	Admissible Tensile Load N <sub>rec</sub> [kN]	Admissible Shear Load V <sub>rec</sub> [kN]	Admissible Bending Moment M <sub>rec</sub> [Nm]
NT-TB-A2 M6	C20/25	12,8	10,1	4,3	2,8	4,3
NT-TB-A2 M8	C20/25	23,8	18,4	5,7	5,1	10,6
NT-TB-A2 M10	C20/25	33,4-22,9**	34,1-34,1**	6,3-4,8**	8,2-6,5**	21,1
NT-TB-A2 M12	C20/25	37,0-30,0**	52,1-52,1**	9,9-6,3**	11,8-8,5**	36,9
NT-TB-A2 M16	C20/25	68,5	61,4	13,9	22,1	94,0
NT-TB-A2 M20	C20/25	104,7	137,2	19,8	35,4	182,8

- Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2hef$  Shear directed away from the edge
- General safety factor included
- Load increasing safety coefficient used = 1,4
- (\*\*\*) Reduced embedment depth

| Size Specifications |

Part No	Thread Diameter d [mm]	Diameter Of Anchor d <sub>nom</sub> [mm]	Length Of Anchor L [mm]	Thread Diameter X Length dxL [mm x mm]	Thickness (Max) t <sub>fix</sub> [mm]	Qty/Box
NT-TB-A2 M6-60	M6	6	60	M6 x 27	2	100
NT-TB-A2 M8-75	M8	8	75	M8 x 39	5-18**	100
NT-TB-A2 M8-90	M8	8	90	M8 x 54	20-33**	100
NT-TB-A2 M8-115	M8	8	115	M8 x 79	45-58**	50
NT-TB-A2 M10-90	M10	10	90	M10 x 49	10-23**	50
NT-TB-A2 M10-120	M10	10	120	M10 x 79	40-53**	50
NT-TB-A2 M12-110	M12	12	110	M12 x 58	18-33**	25
NT-TB-A2 M12-140	M12	12	140	M12 x 88	48-63**	25
NT-TB-A2 M12-180	M12	12	180	M12 x 128	88-103**	25
NT-TB-A2 M16-125	M16	16	125	M16 x 60	3	15
NT-TB-A2 M16-145	M16	16	145	M16 x 80	23	15
NT-TB-A2 M16-170	M16	16	170	M16 x 105	48	15
NT-TB-A2 M20-170	M20	20	170	M20 x 102	23	10
NT-TB-A2 M20-220	M20	20	220	M20 x 152	73	10

## NT-TB-A4

Through anchor with external thread for

- middle-heavy duty loads.
- Suitable for non-cracked concrete.
- Diameters from 6 to 20 mm.
- Driving torque-controlled expansion.
- Expansion clip with anti-rotation fins



### | Load data |



Part No	Concrete fck/fck,cube [N/mm <sup>2</sup> ]	Average Ultimate Tension Load NRum [kN]	Average Ultimate Shear Load VRum [kN]	Admissible Tensile Load Nrec [kN]	Admissible Shear Load Vrec [kN]	Admissible Bending Moment Mrec [Nm]
NT-TB-A4 M6	C20/25	12,8	10,1	4,3	2,8	4,3
NT-TB-A4 M8	C20/25	23,8	18,4	5,7	5,1	10,6
NT-TB-A4 M10	C20/25	33,4-22,9**	34,1-34,1**	6,3-4,8**	8,2-6,5**	21,1
NT-TB-A4 M12	C20/25	37,0-30,0**	52,1-52,1**	9,9-6,3**	11,8-8,5**	36,9
NT-TB-A4 M16	C20/25	68,5	61,4	13,9	22,1	94,0
NT-TB-A4 M20	C20/25	104,7	137,2	19,8	35,4	182,8

- Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2hef$
- Shear directed away from the edge
- General safety factor included
- Load increasing safety coefficient used = 1,4
- (\*\*\*) Reduced embedment depth

# D ANCHORING SYSTEM



## | Size Specifications |

Part No	Min Thickness Base Material hmin [mm]	Hole Dia. d0 [mm]	Hole Depth h1 [mm]	Embedment Depth hnomin [mm]	Effective Anchorage Depth hef [mm]	Characteristic Spacing Scr [mm]	Characteristic Edge Distance Ccr [mm]	Allowable Spacing Smin [mm]	Min Allowable Edge Distance Cmin [mm]	Key Sw [mm]	Installation Torque Tinst [Nm]
NT-TB-A4 M6x45	100	6	40	35	25	75	38	50	50	10	7
NT-TB-A4 M6x60	100	6	55	50	40	120	60	50	50	10	7
NT-TB-A4 M6x80	100	6	55	50	40	120	60	50	50	10	7
NT-TB-A4 M8x50	100	8	40	35	23	69	35	65	65	13	20
NT-TB-A4 M8x75	100	8	65-50**	60-47**	48-35**	144-105**	72-53**	65	65	13	20
NT-TB-A4 M8x90	100	8	65-50**	60-47**	48-35**	144-105**	72-53**	65	65	13	20
NT-TB-A4 M8x115	100	8	65-50**	60-47**	48-35**	144-105**	72-53**	65	65	13	20
NT-TB-A4 M10x70	100	10	60**	54**	42**	126**	63**	70	70	17	35
NT-TB-A4 M10x90	110-103**	10	75-60**	67-54**	55-42**	165-126**	83-63**	70	70	17	35
NT-TB-A4 M10x120	110-103**	10	75-60**	67-54**	55-42**	165-126**	83-63**	70	70	17	35
NT-TB-A4 M10x150	110-103**	10	75-60**	67-54**	55-42**	165-126**	83-63**	70	70	17	35
NT-TB-A4 M12x75	100	12	60	55	43	129	65	85	85	19	60
NT-TB-A4 M12x90	100**	12	70**	62**	50**	150**	75**	85	85	19	60
NT-TB-A4 M12x110	130-100**	12	85-70**	77-62**	65-50**	195-150**	98-75**	85	85	19	60
NT-TB-A4 M12x140	130-100**	12	85-70**	77-62**	65-50**	195-150**	98-75**	85	85	19	60
NT-TB-A4 M16x90	100	16	75	69	49	147	74	110	110	24	120
NT-TB-A4 M16x145	168	16	110	104	84	252	126	110	110	24	120
NT-TB-A4 M16x170	168	16	110	104	84	252	126	110	110	24	120
NT-TB-A4 M20x120	145	20	105	93	71	213	107	135	135	30	240
NT-TB-A4 M20x170	206	20	135	125	103	309	155	135	135	30	240
NT-TB-A4 M20x220	206	20	135	125	103	309	155	135	135	30	240

## NT-TB-HDG

### Product Features

- Through anchor with external thread for middle-heavy duty loads.
- Suitable for non-cracked concrete.
- Diameters from 6 to 20 mm.
- Driving torque-controlled expansion.
- Expansion clip with anti-rotation fins



Part No	Concrete fck/fck,cube [N/mm <sup>2</sup> ]	Average Ultimate Tension Load NRum [kN]	Average Ultimate Shear Load VRum [kN]	Admissible Tensile Load Nrec [kN]	Admissible Shear Load Vrec [kN]	Admissible Bending Moment Mrec [Nm]
NT-TB-HDG M 6	C20/25	6,0	6,0	2,3	3,4	-
NT-TB-HDG M 8 (50...60)	C20/25	4,5	8,3	1,7	4,7	12,9
NT-TB-HDG M 8 (75...115)	C20/25	9,0	11,0	3,5	6,3	12,9
NT-TB-HDG M 10-70	C20/25	6,7	17,4	3,2	9,9	25,6
NT-TB-HDG M 10 (90...185)	C20/25	16,0	17,4	7,6	9,9	25,6
NT-TB-HDG M 12-80	C20/25	12,0	25,3	5,7	14,5	44,9
NT-TB-HDG M 12 (100...200)	C20/25	30,0	25,3	14,3	14,5	44,9
NT-TB-HDG M 16	C20/25	35,0	47,1	16,7	26,9	114,2
NT-TB-HDG M 20	C20/25	50,0	73,1	23,8	41,8	222,5

- Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2hef$
- Shear directed away from the edge
- General safety factor included
- Load increasing safety coefficient used=1,4
- (\*\*) Reduced embedment

# D ANCHORING SYSTEM



## | Size Specifications |

Part No	Min Thickness Base Material hmin [mm]	Hole Diam .do [mm]	Hole Depth h1 [mm]	Embedment Depth hnom [mm]	Effective Anchorage Depth hef [mm]	Characteristic Spacing Scr [mm]	Characteristic Edge Distance Ccr [mm]	Allowable Spacing Smin [mm]	Allowable Edge Distance Cmin [mm]	Installation Torque Tinst [Nm]
NT-TB-HDG M6x60	100	6	50	45	40	120	60	50	50	7
NT-TB-HDG M6x70	100	6	50	45	40	120	60	50	50	7
NT-TB-HDG M6x100	100	6	50	45	40	120	60	50	50	7
NT-TB-HDG M8x50	100	8	50	45	40	120	60	50	50	15
NT-TB-HDG M8x60	100	8	50	45	40	120	60	50	50	15
NT-TB-HDG M8x75	100	8	60	55	48	144	72	50	50	15
NT-TB-HDG M8x95	100	8	60	55	48	144	72	50	50	15
NT-TB-HDG M8x115	100	8	60	55	48	144	72	50	50	15
NT-TB-HDG M10x70	120	10	60	55	48	144	72	50	50	40
NT-TB-HDG M10x90	120	10	75	68	60	180	90	60	60	40
NT-TB-HDG M10x105	120	10	75	68	60	180	90	60	60	40
NT-TB-HDG M10x115	120	10	75	68	60	180	90	60	60	40
NT-TB-HDG M10x135	120	10	75	68	60	180	90	60	60	40
NT-TB-HDG M10x165	120	10	75	68	60	180	90	60	60	40
NT-TB-HDG M10x185	120	10	75	68	60	180	90	60	60	40
NT-TB-HDG M12x80	140	12	75	68	60	180	90	60	60	60
NT-TB-HDG M12x110	140	12	85	80	70	210	105	70	70	60
NT-TB-HDG M12x130	140	12	85	80	70	210	105	70	70	60
NT-TB-HDG M12x150	140	12	85	80	70	210	105	70	70	60
NT-TB-HDG M12x180	140	12	85	80	70	210	105	70	70	60
NT-TB-HDG M12x200	140	12	85	80	70	210	105	70	70	60
NT-TB-HDG M16x125	170	16	105	97	85	255	127,5	128	128	100
NT-TB-HDG M16x145	170	16	105	97	85	255	127,5	128	128	100
NT-TB-HDG M16x175	170	16	105	97	85	255	127,5	128	128	100
NT-TB-HDG M16x220	170	16	105	97	85	255	127,5	128	128	100
NT-TB-HDG M20x170	200	20	125	114	100	300	150	150	150	200
NT-TB-HDG M20x200	200	20	125	114	100	300	150	150	150	200

## NT-DA DROP-IN ANCHOR

### Product Specifications

- High performance in cracked and non-cracked concrete.
- Slotted sleeve and internal wedge
- component facilitate easy expansion.
- Suitable for fitting overhead installations.



### Size Specifications

Part No	Outer Diameter (mm)	Total Length (mm)	Thread x Length (mm x mm)	No of Pcs/Box
NT-DA M06x25	8	25	M6 x 25	100
NT-DA M08x30	10	30	M8 x30	100
NT-DA M10x40	12	40	M10 x 40	50
NT-DA M12x50	15	50	M12 x 50	50
NT-DA M16x65	20	65	M16 x 65	25

### Load Data

Part No	Concrete fck/fck,cube [N/mm <sup>2</sup> ]	Characteristic Load FRec [kN]	Admissible Load FRec [kN]	Admissible bending Moment MRec [Nm]
NT-DA M06x25	C40/50	3	1.68	4.3
NT-DA M08x30	C40/50	5	2.38	10.7
NT-DA M10x40	C40/50	6	3.89	21.4
NT-DA M12x50	C40/50	11	5.56	37.4
NT-DA M16x65	C40/50	16	8.8	95

- Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2hef$
- Shear directed away from the edge
- General safety factor included
- Load increasing safety coefficient used = 1,4

## NT- DAL DROP-IN ANCHOR (WITH EDGE)

### Product Specifications

- Slotted sleeve and internal wedge component facilitate easy expansion.
- Suitable for fitting overhead installations.
- Lip prevents anchor dropping into drilled hole



### Size Specifications

Part No	Outer Diameter (mm)	Total Length (mm)	Thread x Length (mm x mm)	No of Pcs/Box
NT-DAL M06x25	8	25	M6 x 13	100
NT-DAL M08x30	10	30	M8 x 13	100
NT-DAL M10x40	12	40	M10 x 15	50
NT-DAL M12x50	15	50	M12 x 18	50
NT-DAL M16x65	20	65	M16 x 65	25

### Load Data

Part No	Concrete fck/fck,cube [N/mm <sup>2</sup> ]	Characteristic Load FRec [kN]	Admissible Load FRec [kN]
NT-DAL M06x25	C40/50	3	1.8
NT-DAL M08x30	C40/50	5	2.5
NT-DAL M10x40	C40/50	6	3.9
NT-DAL M12x50	C40/50	11	5.6
NT-DAL M16x65	C40/50	16	8.9

- Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2hef$
- Shear directed away from the edge
- General safety factor included
- Load increasing safety coefficient used = 1,4

## NT – SA SHIELD ANCHOR

### Product Specifications

- High performance in cracked and non-cracked concrete.
- Expansion sleeve provides optimal load and safety in any substrate.
- Available to use with loose bolt with hexagon head or threaded rod.
- Cold formed steel elements for consistency of performance and dimensional accuracy.



### Size Specifications

Part No	D (mm)	Total Length (mm)	D1 (mm)	No of Pcs/Box
NT-SA-08	8	50	14	100
NT-SA-010	10	60	16	100
NT-SA-012	12	75	20	50
NT-SA-016	16	115	25	25

### Load Data

Part No	Non cracked concrete shear load (KN)	Cracked concrete shear load (KN)	Non cracked concrete Tension load (KN)	cracked concrete Tension load (KN)	Safety factor
NT-SA-08	9.20	9.20	7.50	5.0	1.5
NT-SA-010	14.50	14.50	12.00	6.0	1.5
NT-SA-012	21.10	21.10	16.00	12.0	1.5
NT-SA-016	39.00	39.00	40.00	16.0	1.5

- Load increasing safety coefficient use=1.5

## REDUCED DROP-IN ANCHOR

### Product Specifications

- High performance in cracked and non-cracked concrete hollow-core slab.
- Product suitable for applications requiring fire resistance.
- Lip prevents anchor dropping into drill hole.
- Suitable for fitting overhead installations.



### Size Specifications

Part No	D (mm)	Drilling depth (mm) h1	Drill Dia (mm) $d_o$	L(mm)	No of Pcs/Box
NT-RDA-06	6	28	8	25	100
NT-RDA-08	8	28	10	25	100
NT-RDA-010	10	28	12	25	100
NT-RDA-012	12	28	15	25	50

### Load Data

Part No	Non cracked concrete shear load (kN)	Cracked concrete shear load (kN)	Non cracked concrete Tension load (kN)	Cracked concrete Tension load (kN)	Safety factor
NT-RDA-06	2.33	2.33	2.33	2.33	1.5
NT-RDA-08	2.66	2.66	2.66	2.66	1.5
NT-RDA-010	3.00	3.00	3.00	3.00	1.5
NT-RDA-012	3.00	3.00	3.00	3.00	1.5

- Load increasing safety coefficient use=1.5

## BCR-300/400 POLY SF



- Medium/heavy-duty bi-component polyester styrene-free resin for use in different base materials as concrete, solid masonry and hollow bricks masonry.
- According to data and features in the European Technical Approval (ETA) you have at your disposal one of the best chemical anchors in the European market with masonry approval ETAG 029 for fixing in solid and hollow masonry. You can install it in wet masonry.
- The product is homologated for being used with a wide range of threaded rods (from M8 to M 12) and sleeves (GC 12x80 - GC 15x85 - GC 20x85).
- Certified service temperatures are in the ranges -40°C/+40°C (T° max long period = 24°C) and -40°C/+50°C (TO max long period = 40°C).
- ETA-15/0560 Option 7 from M8 to M16 for non-cracked concrete. The product is certified for fixing with variable anchorage depths. This means that the project engineer and the user have an high flexibility.
- Maximum embedment depth up to 20 times nominal threaded rod diameter. Loads for installation in dry and wet concrete. Certified service temperatures are in the ranges: -40°C/+50°C (To max long period = 40°C).
- VOC according to the French Decree nr. 201 1-321 and the Norm ISO 16000.
- Due to the absence of styrene (no strong smell) the use is possible also in closed places.
- Suitable for use on hollow materials using the special plastic sleeve.
- Quick setting and curing times.
- The resin, due to its strong adhesion value and the ease with which it penetrates holes and hollow areas, permits secure fixing without expansion and so without stresses in the base material.
- For applications in wet concrete or flooded hole and where very heavy load are required, our epoxy resin (BCR-EPOX and BCR-EPOXY21) or vinylester resin (BCR-VINIL and BCR V- PLUS) are recommended.
- It does not need premixing, the resin and hardener are only mixed during extrusion in the special mixer. It can also be used for repair and refilling.

**BCR-300/400/165 VINIL**

- Two-component styrene-free epoxy acrylate resin for heavy loads for fixings in concrete, solid masonry, perforated bricks and wood.
- Due to lack of styrene (absence of pungent odor) use is also possible in closed environments.  
ETA-15/0708 Option 7 from M8 to M16 for non-cracked concrete.
- The product is approved for fixings with variable anchoring depth, to give the designer high flexibility.
- Increase in the maximum anchoring depth up to twenty times the nominal diameter of the threaded rod.
- Improved grip bars diameter from 8 mm to 16 mm.
- Possibility of using the product in dry, wet concrete.
- The certified operating temperatures are in the ranges:  
-40°C/+40°C (max long period T° = 24°C)  
-40°C/+50°C (max long period T° = 40°C)

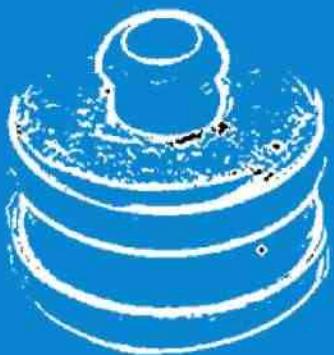
## BCR-900/470/265 EPOXY 21



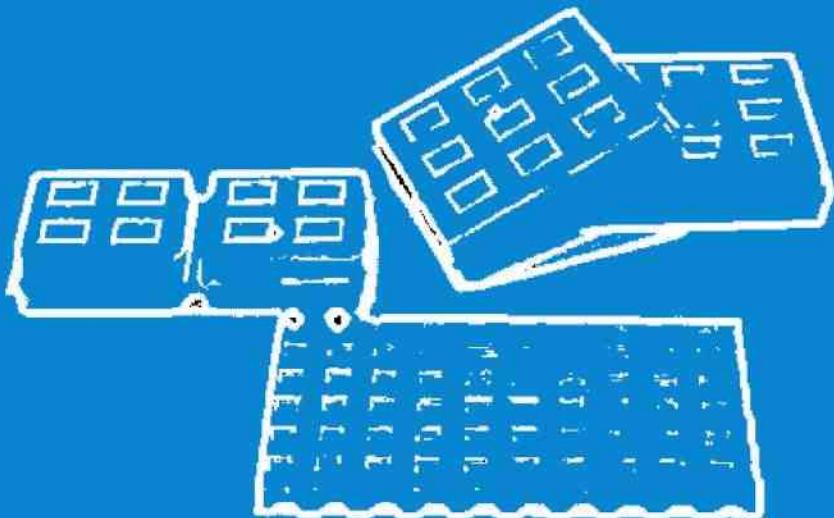
- High-adhesion epoxy resin for heavy-duty fastenings for use in different base materials as concrete, solid masonry and wood.
- Double CE qualification also under seismic C2 activities.
- According to data and features in the European Technical Approvals (ETA) you have at your disposal one of the best chemical anchors in the European market with double approval. The product is homologated for being used with a wide range of threaded rods (from M8 to M30) and rebar (diameter from 8mm to 32mm).
- Can be used in wet concrete and flooded hole without doubling the curing time (reduction of the recommended loads of 20%).
- Option 7 from M8 to M30 for non-cracked concrete and Option 1 for installation in cracked concrete with rods from M12 to M24. It is certified for fixing with variable anchorage depths.
- This means that the project engineer has with this product a considerable flexibility in the design phase. ETA for post installed rebar connections in accordance with Eurocode 2 and TR023 with maximum allowed depth of 2500 mm, certified installation with both drill and core-drill (dry/wet).
- Certified service temperatures are in the ranges -40°C/+40°C (T° max long period = 24°C) and -40°C/+80°C (T° max long period = 50°C).
- Suitable for electrically insulated fastening.
- It has long-term resistance to hydrolysis.
- Excellent for applications with reinforced bars.
- Thixotropic consistency.
- The resin, due to its strong adhesion value and the ease with which it penetrates holes and hollow areas, permits secure fixing without expansion and so without stresses in the base material.
- It does not need premixing, the resin and hardener are only mixed during extrusion in the special mixer. It can also be used for repair and refilling.



E



# SEISMIC & VIBRATION ISOLATORS



## RIBBED MOUNTING PAD



- Can be used where the vibrating force is transmitted directly to ground.
- Used when vibrating force is very small compared to the absorption capacity of the structural slab at higher levels.
- Alternative higher and lower ribs to provide effective vibration isolation.
- Multiple Layers of pads can be used to increase deflection.
- Ease to install for site applications.

Model No	Size (Inches)	Rec Load (kgs)	Max Load (kgs)
NTAVP381818	3/8" X 18" X 18"	410	480
NTAVP381212	3/8" X 12" X 12"	275	310
NTAVP380808	3/8" X 8" X 8"	180	205
NTAVP380606	3/8" X 6" X 6"	135	150
NTAVP380404	3/8" X 4" X 4"	90	105
NTAVP380303	3/8" X 3" X 3"	65	75

## METAL SANDWICH PAD



- Constructed out of a steel plate bonded between ribbed anti vibration pads.
- Designed to withstand heavy loads.

Model No	Size (Inches)	Rec Load (KGS)	Max Load (KGS)
NTAVMP11818	1" X 18" X 18"	2200	3300
NTAVMP11212	1" X 12" X 12"	1800	2700
NTAVMP10808	1" X 8" X 8"	1500	2250
NTAVMP340606	3/4" X 6" X 6"	1250	1875
NTAVMP340404	3/4" X 4" X 4"	750	1125
NTAVMP340303	3/4" X 3" X 3"	600	900

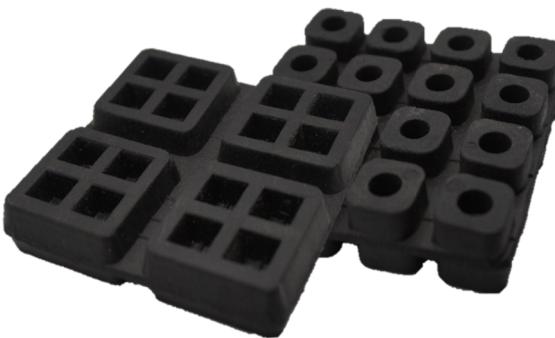
## RIBBED MULTI-LAYER PAD



- Constructed of two layers of thick ribbed resilient rubber pads encasing one 1.5 mm thick steel plate in the center.
- Alternate rib design with the ribs below and above joined at right angles to each other aids to eliminate skidding.
- Diagonal ribs help to distribute load evenly over larger area of pad surface.

Model No	Size (mm)	Rec Load (KGs)	Deflection (mm)
NTRMP10035	100 X 100 X 35	280	4.5
NTRMP15035	150 x 150 x 35	900	4.5

## WAFFLE PAD



- Designed with in-built suction cups.
- Easy cut design without need for tools allowing greater job site flexibility. No need for bolting.
- Easy field installation.

Model No	Size (Inches)	Rec Load (kgs)	Max Load (kgs)
NTAVWP341818	3/4" X 18" X 18"	410	480
NTAVWP341812	3/4" X 12" X 12"	275	310
NTAVWP340808	3/4" X 8" X 8"	180	205
NTAVWP340606	3/4" X 6" X 6"	135	150
NTAVWP340404	3/4" X 4" X 4"	90	105

## CORK SANDWICH PAD



- Laminated pads with 1/2" thick close-grained cork securely bonded between layers of 1/4" alternate low high ribbed Neoprene rubber pads. Offer highest level of sound attenuation and vibration isolation.
- No need for bolting.
- Easy field installation.

Model No	Size (Inches)	Rec Load (kgs)	Max Load (kgs)
NTAVSP781818	7/8" X 18" X 18"	720	900
NTAVSP781212	7/8" X 12" X 12"	480	600
NTAVSP780808	7/8" X 8" X 8"	320	400
NTAVSP780606	7/8" X 6" X 6"	240	300
NTAVSP780404	7/8" X 4" X 4"	160	200
NTAVSP780303	7/8" X 3" X 3"	120	150

## ANTI-VIBRATION HANGER



- Constructed of a Neoprene element in a square bracket.

Model No.	Point Load (Kg)	Deflection (mm)	Rod Size (mm)	Hanger Dimensions (mm)					Color
				A	B	C	D	E	
NTAVH10	10	8	10	75	40	35	55	41	Blue
NTAVH20	20	8	10	75	40	35	55	41	Green
NTAVH30	30	8	10	75	40	35	55	41	Red
NTAVH50	50	8	10	75	40	35	55	41	Yellow
NTAVH70	70	10	10	75	40	35	55	41	Brown
NTAVH120	120	10	10	75	40	35	55	41	Orange

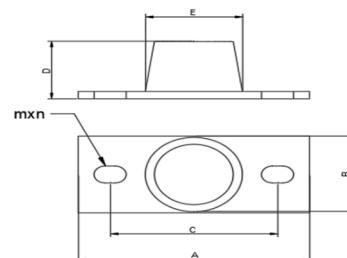
## ANTI-VIBRATION MOUNT



- Constructed of a Neoprene element encased within two steel caps.
- Compact model for space saving installations.

Model No.	Point Load (Kg)	Deflection (mm)	Rod Size (mm)	Hanger Dimensions (mm)		
				A	B	C
NTAV M	90	4	10	37	25	41
NTAV MC	60	4	10	37	19	32

## RUBBER MOUNT



- Constructed of two layers of thick ribbed resilient rubber pads encasing one 1.5 mm thick steel plate in the center.
- Effectively absorb and reduce vibrations generated by the AHU's moving components, such as fans and motors.

Model No	Deflection (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	mxn (mm)	Recommended Load (kg)
NT-VI-RM200	3	105	56	75	28	52	9.5 x 25	200
NT-VI-RM300	3							300
NT-VI-RM400	4							400
NT-VI-RM500	4							500

## CUP SPRING MOUNTS

25 MM STANDARD DEFLECTION



### Product Features

- Spring Mounts are used to isolate noise and vibration from floor mounted equipment.
- Pumps, packaged air handling units, air condition units, centrifugal and axial fans, inertia base etc.
- NTEICO spring Mounts are fabricated using high quality natural Neoprene rubber and heavy steel spring.
- Springs are designed with 50% overload Capacity.
- Outer diameter equal to at least 85% of working height.
- Powder coated spring.
- Color coded spring as per load ratings.
- Designed to meet BS1726, Class B

Selection Table For 25 mm Deflection Cup Spring Mounts							
Isolator Model	Rated Load (kg)	Spring color	Dimensions (mm)				
			L	W	H	BC	D
NTM-1-10	10	RED	91	55	105	76	M10
NTM-1-15	15	BLACK	91	55	105	76	M10
NTM-1-20	20	BLUE	91	55	105	76	M10
NTM-1-30	30	PINK	91	55	105	76	M10
NTM-1-40	40	BLACK	91	55	105	76	M10
NTM-1-60	60	BLUE	91	55	105	76	M10
NTM-1-100	100	MAROON	91	55	105	76	M10
NTM-1-160	160	WHITE	91	55	105	76	M10
NTM-1-200	200	YELLOW	133	70	144	112	M12
NTM-1-250	250	RED	133	70	144	112	M12
NTM-1-300	300	D BROWN	133	70	144	112	M12
NTM-1-400	400	D GREEN	133	70	144	112	M12
NTM-1-500	500	GREY	133	70	144	112	M12
NTM-1-600	600	ORANGE	133	70	144	112	M12
NTM-1-800	800	L GREEN	151	85	144	130	M12
NTM-1-1000	1000	L BLUE	151	85	144	130	M12
NTM-1-1250	1250	WHITE	151	85	144	130	M12

- Measurements are subject to 5% tolerance.
- \*Due to continuous improvement, product specifications are subject to change without prior notice.

## CUP SPRING MOUNTS

50 MM STANDARD DEFLECTION



### Product Features

- Spring Mounts are used to isolate noise and vibration from floor mounted equipment.
- Pumps, packaged air handling units, air condition units, centrifugal and axial fans, inertia base etc.
- NTEICO spring Mounts are fabricated using high quality natural Neoprene rubber and heavy steel spring.
- Springs are designed with 50% overload capacity.
- Outer diameter equal to at least 85% of working height.
- Powder coated spring.
- Color coded spring as per load ratings
- Designed to meet BS1726, Class B

Selection Table For 25 mm Deflection Cup Spring Mounts

Isolator Model	Rated Load (kg)	Spring color	Dimensions (mm)					
			L	W	H	BC	D	d
NTM-2-5	5	RED	91	35	105	76	M10	M8
NTM-2-10	10	BLUE	91	35	105	76	M10	M8
NTM-2-25	25	BLACK	91	35	105	76	M10	M8
NTM-2-40	40	MAROON	91	35	105	76	M10	M8
NTM-2-50	50	WHITE	91	35	105	76	M10	M8
NTM-2-75	75	YELLOW	91	35	105	76	M10	M8
NTM-2-100	100	PINK	91	35	105	76	M10	M8
NTM-2-150	150	PURPLE	91	35	105	76	M10	M8
NTM-2-200	200	D GREEN	133	35	144	112	M12	M10
NTM-2-250	250	GREY	133	35	144	112	M12	M10
NTM-2-300	300	ORANGE	133	35	144	112	M12	M10
NTM-2-400	400	L GREEN	151	35	144	130	M12	M10
NTM-2-500	500	L BLUE	151	35	144	130	M12	M10
NTM-2-600	600	WHITE	151	35	144	130	M12	M10

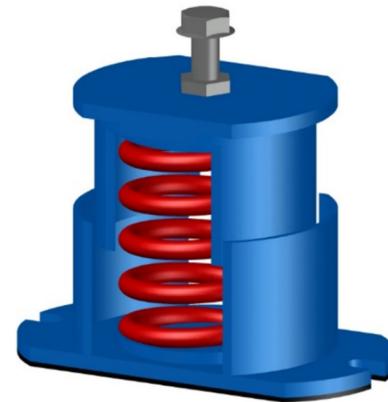
- Measurements are subject to 5% tolerance.
- \*Due to continuous improvement, product specifications are subject to change without prior notice.

## HOUSED SPRING MOUNTS

### NT-V-HSM25 SERIES - 25 MM STANDARD DEFLECTION

#### Product Features

- Provides stability to equipment against lateral forces.
- Consists of free standing, laterally stable epoxy powder coated steel spring housed in a steel bracket with two casings.
- The lower casing has rubber snubbers, and also a rubber friction pad is provided at the base of the spring mount and axial fans, inertia base etc.
- The mount is designed for 50% overload capacity.
- Color coded springs to facilitate identification.
- Applications include mounting chillers, AHU's, pumps, axial fans, condensing units etc.



Part No.	Rated Load (kg)	Spring Color	Dimensions (mm)							
			H	E	B	C	A	D	Ød	d
NT-V-HSM25-100	100	ORANGE	157	173	238	126.5	198	63.25	14	M12 x 30
NT-V-HSM25-200	200	BLUE								
NT-V-HSM25-300	300	GREEN								
NT-V-HSM25-400	400	RED								
NT-V-HSM25-500	500	BLACK								

### NT-V-HSM50 SERIES - 50 MM STANDARD DEFLECTION

Part No.	Rated Load (kg)	Spring Color	Dimensions (mm)							
			H	E	B	C	A	D	Ød	d
NT-V-HSM50-600	600	WHITE	172	173	238	126.5	198	63.25	14	M12 x 30
NT-V-HSM50-700	700	RED								
NT-V-HSM50-800	800	GREY								
NT-V-HSM50-1000	1000	GREEN								
NT-V-HSM50-1200	1200	BLACK								

## SPRING HANGER

25 MM STANDARD DEFLECTION



### Product Features:

- Spring Mounts are used to isolate suspended sources of both noise and vibration.
- Suspended mechanical equipment such as air handling units, cabinet fans, piping, and ductwork in close proximity to rotating mechanical equipment are typical applications of Spring Hangers.
- NTEICO Spring Hangers are fabricated using heavy duty metal.
- Color coded springs as per load ratings.

Selection Table For 25 mm Deflection Cup Spring Mounts						
Isolator Model	Rated Load (KG)	Spring color	Dimensions (mm)			
			L	W	F*	H
NTH-1-10	10	RED	55	40	80	104
NTH-1-15	15	BLACK	55	40	80	104
NTH-1-20	20	BLUE	55	40	80	104
NTH-1-30	30	PINK	55	40	80	104
NTH-1-40	40	BLACK	55	40	80	104
NTH-1-60	60	BLUE	65	58	96	104
NTH-1-100	100	MAROON	65	58	96	104
NTH-1-160	160	WHITE	65	58	96	104
NTH-1-200	200	YELLOW	65	58	96	104
NTH-1-250	250	RED	65	58	96	104
NTH-1-300	300	D BROWN	85	75	115	157
NTH-1-400	400	D GREEN	85	75	115	157
NTH-1-500	500	GREY	85	75	115	157
NTH-1-600	600	ORANGE	85	75	115	157
NTH-1-800	800	L GREEN	85	75	115	157
NTH-1-1000	1000	L BLUE	85	75	115	157
NTH-1-1250	1250	WHITE	85	75	115	157

- Measurements are subject to 5% tolerance.
- \*Due to continuous improvement, product specifications are subject to change without prior notice.

## SPRING HANGER

50 MM STANDARD DEFLECTION



### Product Features:

- Spring Mounts are used to isolate suspended sources of both noise and vibration.
- Suspended mechanical equipment such as air handling units, cabinet fans, piping and ductwork in close proximity to rotating mechanical equipment are typical applications of Spring Hangers.
- NTEICO Spring Hangers are fabricated using heavy duty metal.
- Powder Coated Brackets and Spring.
- Color coded springs as per load ratings.

Selection Table For 50 mm Deflection Cup Spring Mounts							
Isolator Model	Rated Load (KG)	Spring color	Dimensions (mm)				
			L	W	F*	H	d (Max)
NTH-2-10	10	RED	65	58	100	140	M10
NTH-2-15	15	BLACK	65	58	100	140	M10
NTH-2-20	20	BLUE	65	58	100	140	M10
NTH-2-30	30	PINK	65	58	100	140	M10
NTH-2-40	40	BLACK	65	58	100	140	M12
NTH-2-60	60	BLUE	85	75	121	157	M12
NTH-2-100	100	MAROON	85	75	121	157	M12
NTH-2-160	160	WHITE	85	75	121	157	M12
NTH-2-200	200	YELLOW	85	75	121	157	M12
NTH-2-250	250	RED	85	75	121	157	M12
NTH-2-300	300	D BROWN	85	95	155	210	M16
NTH-2-400	400	D GREEN	85	95	155	210	M16
NTH-2-500	500	GREY	85	95	155	210	M16
NTH-2-600	600	ORANGE	85	95	155	210	M16
NTH-2-800	800	L GREEN	85	95	155	210	M16
NTH-2-1000	1000	L BLUE	85	95	155	210	M16
NTH-2-1250	1250	WHITE	85	95	155	210	M16

- Measurements are subject to 5% tolerance.

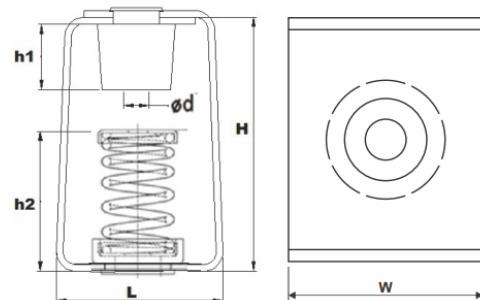
- \*Due to continuous improvement, product specifications are subject to change without prior notice.

## COMBINATION HANGER



### Product Features:

- Better protection against structural transmission of high frequencies.
- Consists of free standing, laterally stable epoxy powder coated steel spring in bottom with a neoprene rubber element at top, housed in a bracket.
- Springs have a defined deflection of 25 mm at rated load and are designed with 50% overload capacity.
- Color coded springs to facilitate identification.
- Used to isolate sources of noise and vibration of floor mounted equipment.



Part No.	Rated Load (kg)	Spring Color	Hanger Dimensions (mm)					
			L	W	H	h1	h2	D
NT-V-CH-25	25	BLUE	75	60	150	32	70	M10
NT-V-CH-50	50	BLUE						
NT-V-CH-75	75	RED						
NT-V-CH-100	100	RED	75	60	150	32	78	M12
NT-V-CH-150	150	WHITE						
NT-V-CH-200	200	WHITE						

## SEISMIC SPRING ISOLATOR

(25 mm Deflection)

### NT-S-SI11 Series

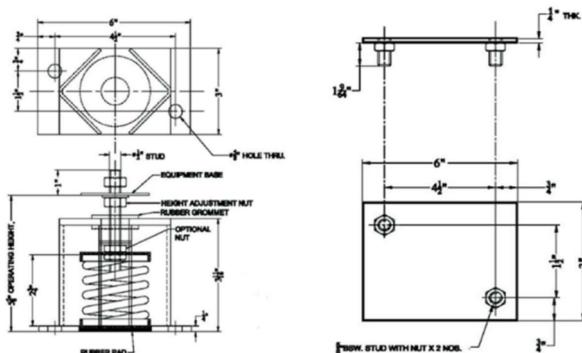
#### Product Features:

- Consists of free standing, laterally stable epoxy powder coated steel spring housed in a steel bracket.
- Color coded springs to facilitate identification.
- Anti-skid rubber pad at bottom.
- Seismic and vibration protection to floor mounted equipment.



#### Technical Specifications:

- Provides stability to equipment against lateral forces.
- The mount is designed for 50% overload capacity.
- Natural frequency – 3 to 4 Hz.



Part No.	Rated Load (kg)	Spring Constant K (N/mm)	Spring Color	Dimensions (mm)			
				H (mm)	A (mm)	B (mm)	C (mm)
NT-S-SI 11-25	25	10	Yellow	127	152	76	114
NT-S-SI 11-50	50	20	Dark Brown	127	152	76	114
NT-S-SI 11-100	100	40	Red	127	152	76	114
NT-S-SI 11-200	200	80	Blue	127	152	76	114
NT-S-SI 11-300	300	120	Black	127	152	76	114
NT-S-SI 11-400	400	160	Green	127	152	76	114
NT-S-SI 11-500	500	200	Orange	127	152	76	114

## NT SEISMIC CABLE

### Construction Features

- Pre-stretched seismic restraint cable.
- Provides easy installation of seismic bracing for HVAC Ducts, piping systems etc.
- Can be cut to length as required.



### Product Specifications

- Materials: Stainless Steel 316 (EN 1.4401)
- Category: Seismic Restraining and Bracing Cable Systems
- Static Load Safety Factor – 1.50

### Technical Data

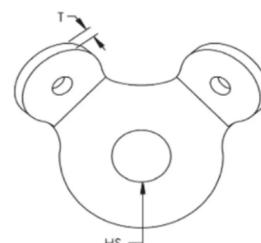
Part No	Diameter (mm)	Cable Length (m)	Static Load (kN)
NT-SE-CK2	2.4	76.2	1.41
NT-SE-CK3	3.2	76.2	2.75
NT-SE-CK5	4.8	76.2	5.86

## RESTRAINT CLIP – NT-SE-RC1



### Construction Features

- Attaches cable brace to NTEICO slotted channels.
- The special design enables connection of cables at maximum 45° angles.
- Application: Seismic bracing by cables for HVAC duct, conduit/cable tray, and piping.



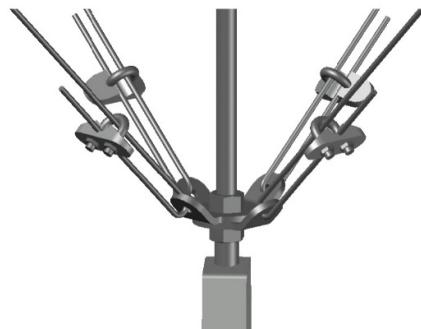
### Product Specifications

- Materials: Carbon Steel
- Material Finish: Electrogalvanized as per ASTM B633. Hot dip galvanized and stainless-steel options.

### Technical Data

Part No	Hole Size (HS) (mm)	Thickness (t)	Load (kN)
NT-SE-RC1-08	8	4	2.5
NT-SE-RC1-10	10	4	2.5
NT-SE-RC1-12	12	4	2.5

## RESTRAINT CLIP – NT-SE-RC2

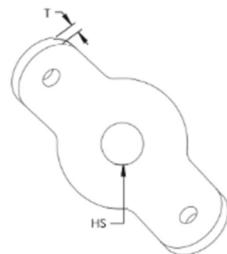


### Construction Features

- Attaches cable brace to pipe clamps and other hangers.
- The special design enables connection of cables at maximum 45° angles.
- Application: Seismic bracing by cables for HVAC duct, conduit/cable tray, and piping.

### Product Specifications

- Materials: Carbon Steel
- Material Finish: Electrogalvanized as per ASTM B633. Hot dip galvanized and stainless-steel options available.



### Technical Data

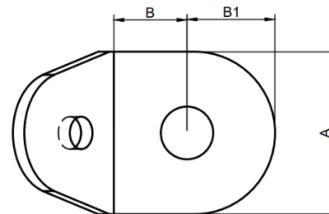
Part No	Hole Size (HS) (mm)	Thickness (t)	Load (kN)
NT-SE-RC2-08	8	4	2.2
NT-SE-RC2-10	10	4	2.2
NT-SE-RC2-12	12	4	2.2

## NT CABLE ANCHOR FITTING



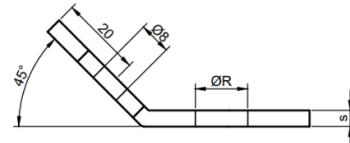
### Construction Features

- Designed to be fastened to steel structural components for use with seismic cable bracing.
- Based on cable load carrying capacity and the same safety factor.
- May be used at both ends of the cable for anchoring equipment.



### Product Specifications

- Materials: Carbon Steel
- Hot dipped galvanized and stainless-steel options provided on request.
- Category: Seismic Restraint and Bracing Cable Systems



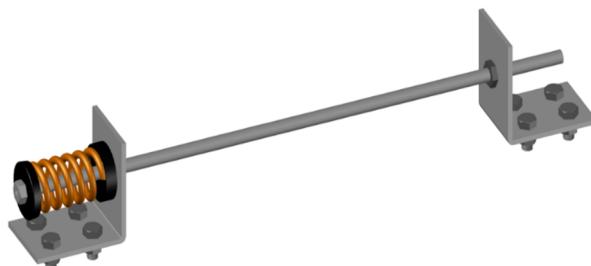
### Technical Data

Part No	Wire Size (mm)	A (mm)	B (mm)	B1 (mm)	R (mm)	S (mm)	Angle (°)	Load (KG)
NT-SE-CAF-03	Up to 3	40	20	21	11	4	45°	200
NT-SE-CAF-06	Up to 6	50	24	26	13	8	45°	1000

## HORIZONTAL THRUST RESTRAINT

### Construction Features

- Thrust restraints offer stability to equipment under air thrust pressures.
- Improves noise and vibration control in mechanical equipment.
- Applications : Air handling units connected to any equipment including HVAC, fans, and pumps.

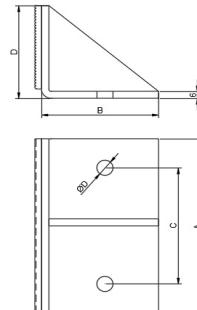


### Product Specification

- Material: Carbon Steel
- Spring stiffness: 4 to 60 N/mm

Part No.	Load (N)	K (N/mm)	Color (spring)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	ØE (mm)	HD (mm)
NT-HTR-100	100	4	ORANGE	80	80	44	60	500	82	M10x500	M10x25
NT-HTR-100	250	10	YELLOW								
NT-HTR-100	500	20	BLUE								
NT-HTR-100	1000	40	RED								
NT-HTR-100	1500	60	GREEN								

## SEISMIC SNUBBERS



### Construction Features

- Seismic Snubbers are intended to limit lateral and vertical equipment motion.
- Neoprene pads on all contact surfaces are designed to reduce shock loads by cushioning any potential impacts.

### Product Specification

- Material: Carbon Steel
- Material Finish: HDG / GI / Epoxy Coating

### Technical Data

Modal	Load (kN)	A (mm)	B (mm)	C (mm)	D (mm)	ØD (mm)
NT-SS-15095	26	150	95	100	80	13



# PRODUCT CATALOGUE

## SUPPORT SYSTEM SOLUTIONS

2023



[nteico.ae](http://nteico.ae)



[info@nteico.ae](mailto:info@nteico.ae)



@nteico



@nteicoae



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