«УТВЕРЖДАЮ»
Генеральный директор
ООО «МОСТ»

_____ / Устинов А.А. /

«____» _____2021 г.

ТЕХНИЧЕСКОЕ ЗАДАНИЕ №1

На запрос предложений по выбору поставщика на поставку комплектов усиления креплений секций башни крана TEREX на объект: «Деловой комплекс. Корпус «В» - здание с крытой, отапливаемой аркадой, объединяющей корпуса «Б», «В», «Г» и «Е» в единый Деловой комплекс, подлежащие строительству и входящее в состав Административно-торгового комплекса по адресу: г. Москва, пересечение Кутузовского проспекта и улицы Кульнева (ЗАО г. Москвы). Корпус «В».

Параметры запроса.

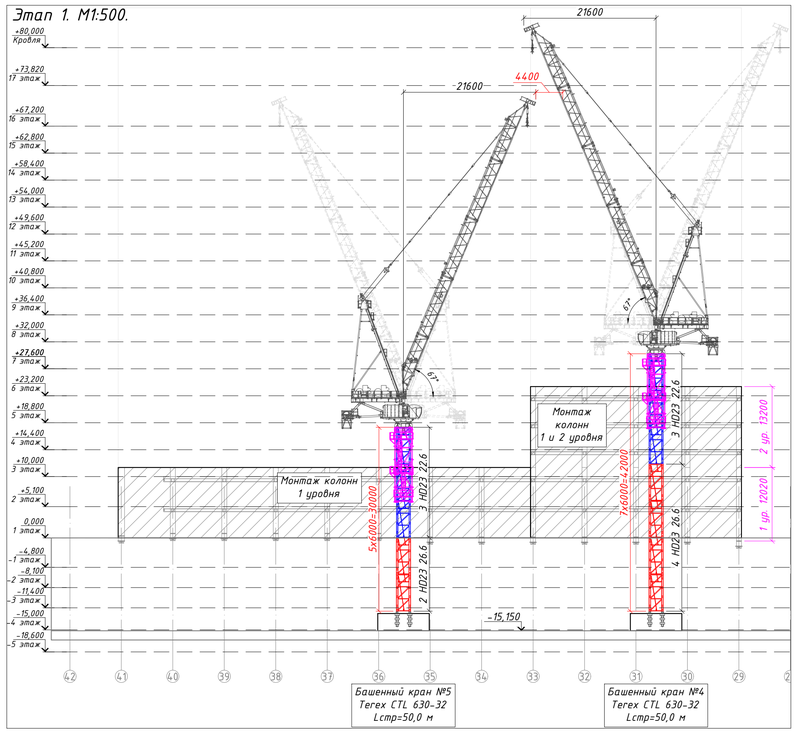
№	Наименование	Основные параметры запроса
1.	Наименование поставки	Элементы усиления секций башни крана TEREX CTL630-32 HD23 22.6 – 3 единицы
2.	Основное назначение	Усиления секций башни крана HD23 22.6 предназначенные для восприятия высоких нагрузок от пристежек башенного крана.
3.	Параметры	Основные параметры изложены в Приложении №1 (REIFORCEMENT KIT - HD23-22 TOWER).
4.	Сертификаты и допуски	Усиленные элементы секций крана TEREX CTL630-32 должны иметь все необходимые сертификаты и допуски от завода изготовителя кранов марки TEREX (Италия).
5.	Гарантийные условия	Усиленные элементы секций крана TEREX CTL630-32 должны иметь заводскую гарантию не мене 12 месяцев.
6.	Срок изготовления	Срок изготовления, не должен превышать 4 месяцев с момента заключения договора и оплаты счета (аванс).
7.	Доставка	Срок поставки усиленных элементов секций крана (в кол-ве 3 единиц): не позднее 140 календарных дней после подписания договора поставки. Место доставки: г. Москва, Кутузовский проспект д.32
8.	Особые условия	Усиленные элементы секций крана должны быть новые.

Приложение:

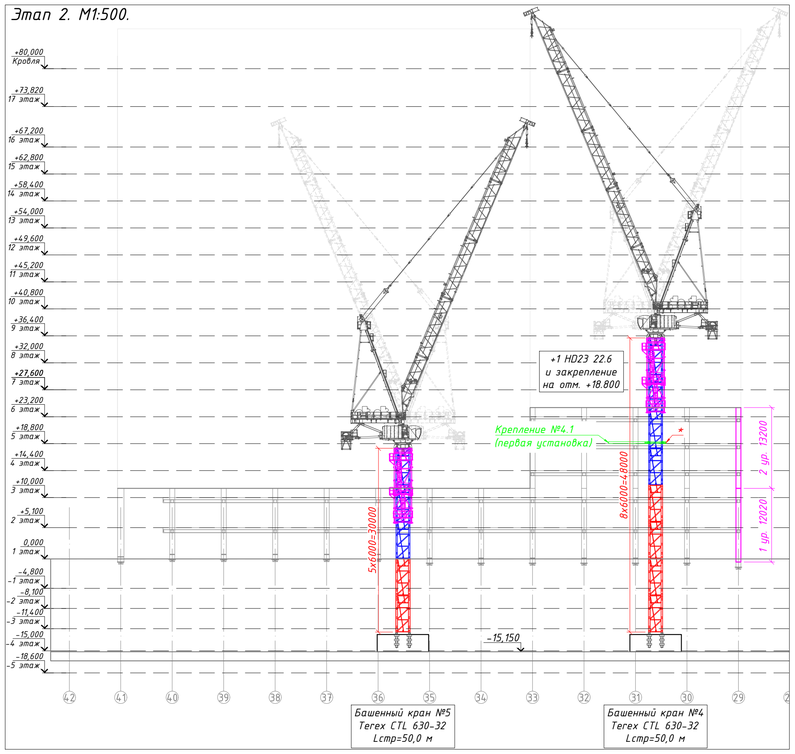
1. Комплект усиления креплений для секций башни HD23-22 – 4 листа.

Исполнитель: Ищенко П.В.
Моб. тел.: +7 (913) 624-53-46

Этап 1. М1:500.



Этап 2. М1:500.



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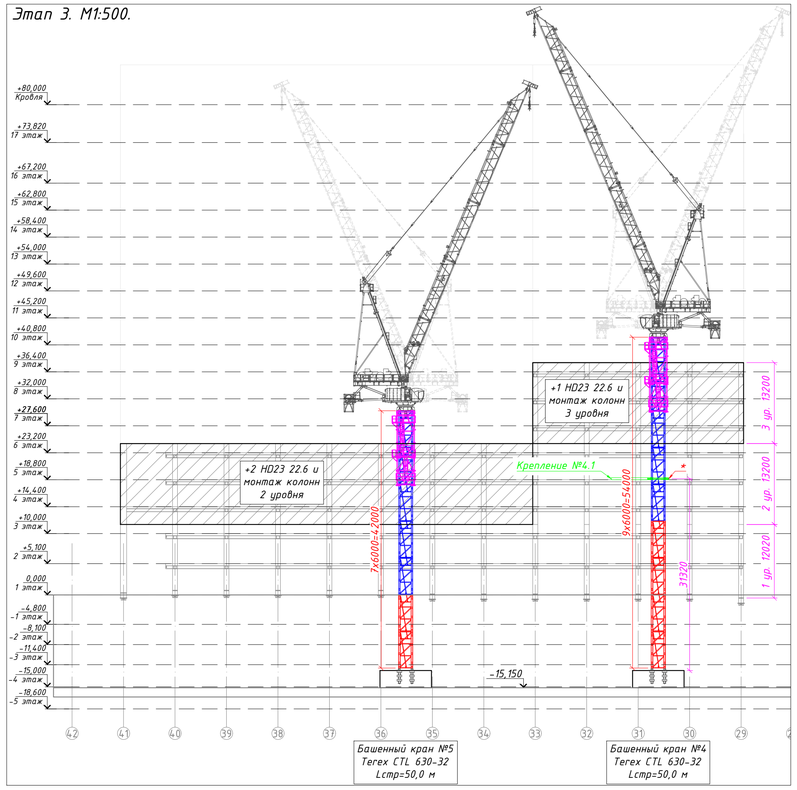
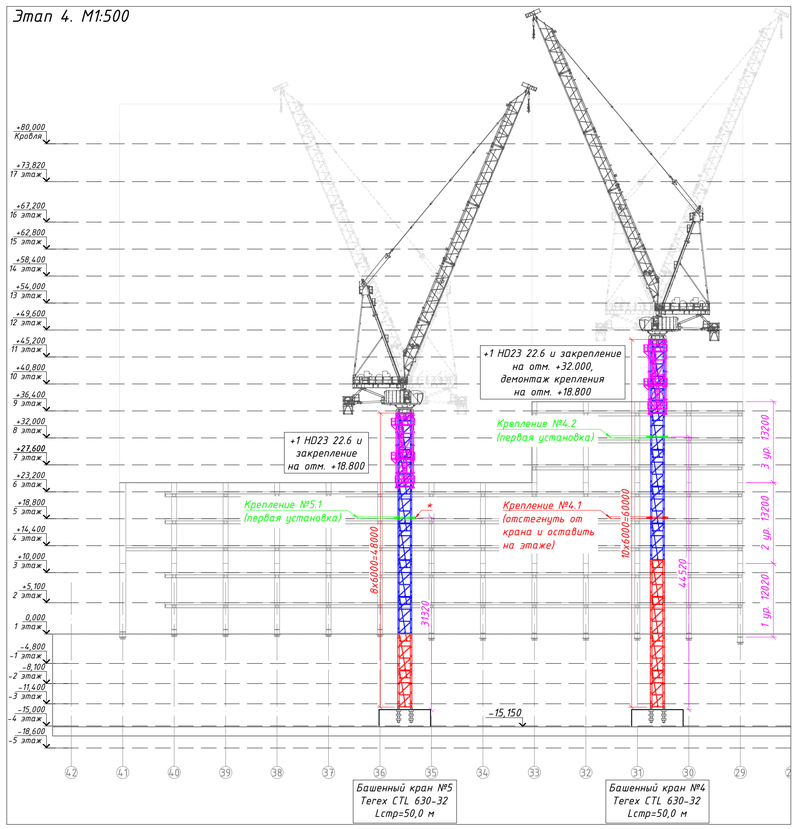
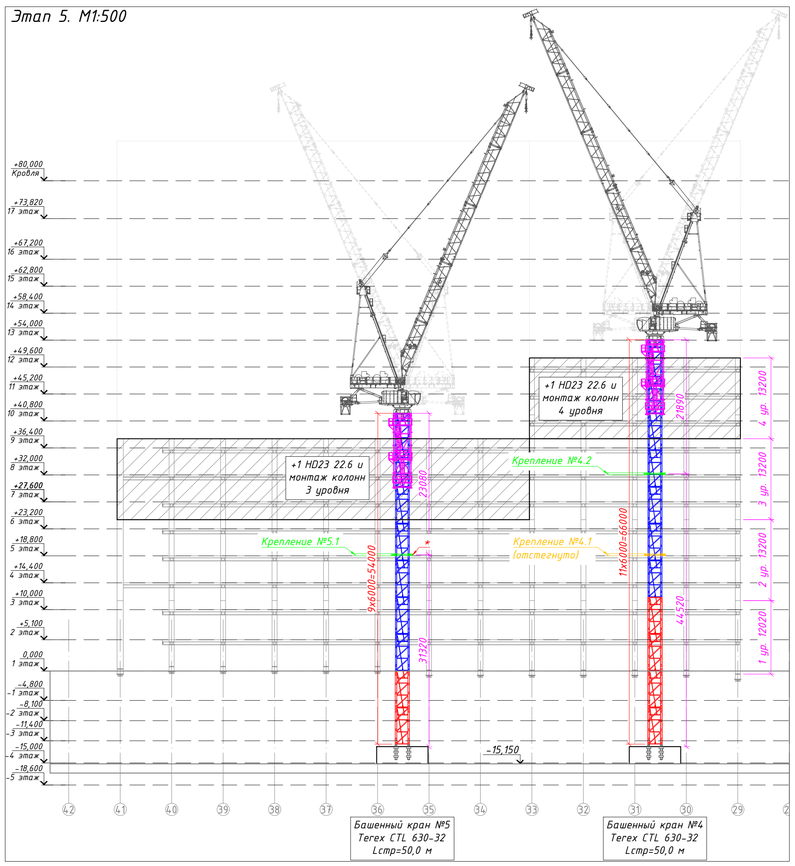


* – необходим комплект усиления крепления

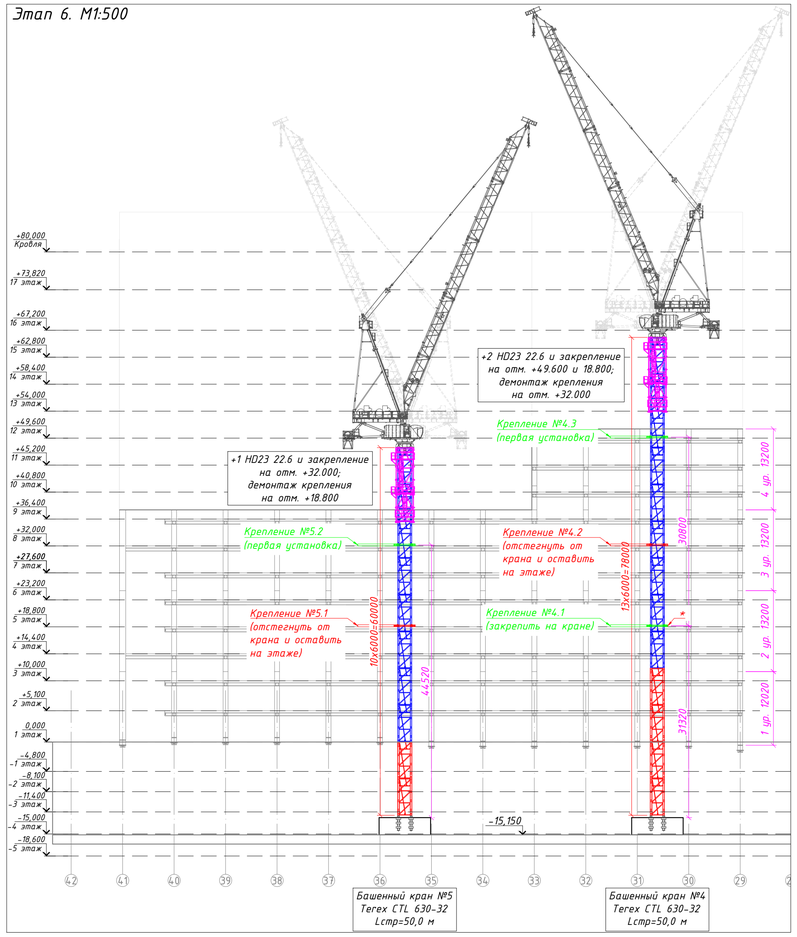
Этап 4. М1:500



Этап 5. М1:500



Этап 6. М1:500



Согласовано

Взам. инв. №

Подпись и дата

Инв. № подл.

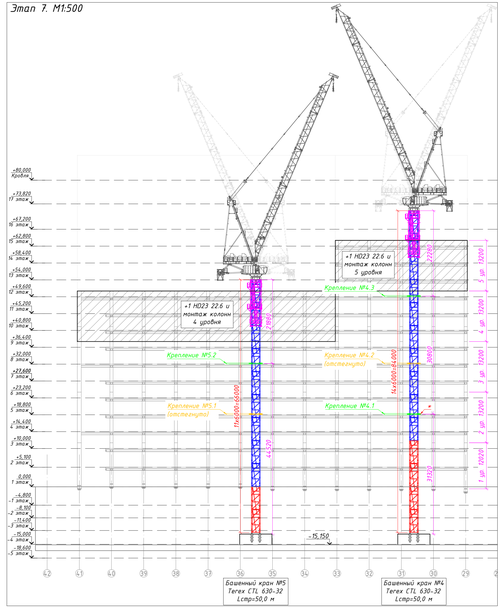
На башенный кран №5:
- 3 первичных установки креплений;
- 2 отстегивания с последующим пристегиванием без перемещения;
- 1 перестановка крепления между этажами.

На башенный кран №4:
- 3 первичных установки креплений;
- 2 отстегивания с последующим пристегивание без перемещения;
- 4 перестановки крепления между этажами.

* – необходим комплект усиления крепления

На башенный кран №5 необходим 1 комплект усиления креплений.
На башенный кран №4 необходимо 2 комплекта усиления креплений.

Этап 7. М1:500


+80,000 Кровля
+73,820 17 эпюр
+67,200 16 эпюр
+62,800 15 эпюр
+56,400 14 эпюр
+54,000 13 эпюр
+49,600 12 эпюр
+45,200 11 эпюр
+40,800 10 эпюр
+36,400 9 эпюр
+32,000 8 эпюр
+27,600 7 эпюр
+23,200 6 эпюр
+18,800 5 эпюр
+14,400 4 эпюр
+10,000 3 эпюр
+5,100 2 эпюр
0,000 1 эпюр
-4,800 1 эпюр
-8,100 2 эпюр
-11,400 3 эпюр
-15,000 4 эпюр
-18,600 5 эпюр
+1 НО23 22.6 и монтаж колонн 4 уровня
+1 НО23 22.6 и монтаж колонн 5 уровня
Крепление №4.3
Крепление №4.2 (отстегнуто)
Крепление №5.2
Крепление №5.1 (отстегнуто)
Крепление №4.1
Ташбашен-46000
Ташбашен-46000
Ташбашен-46000

C-9 ASSEMBLING THE ACCESSORIES

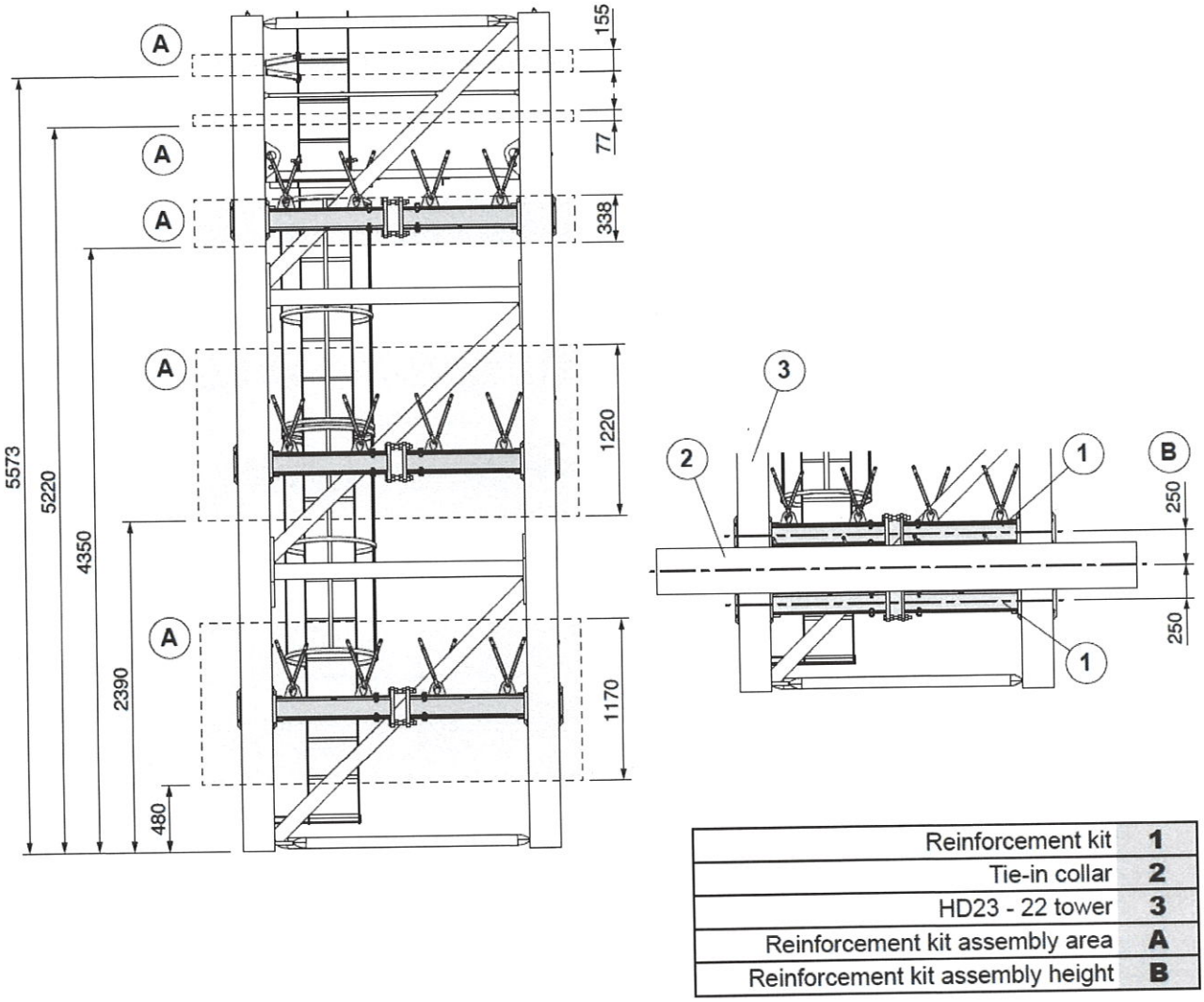
C-9.9 ⚠ Reinforcement kit on HD23 - 22 tower

Positioning the reinforcement kits

The reinforcement kits must be assembled when the tie-in collars are used on HD23 - 22 towers.

⚠ **The reinforcement kits can only be assembled in the "A" zones; one kit is positioned above the tie-in collar and one below, respecting the heights "B" (C-9.9 Fig. 1).**

C-9.9
Fig. 1



Reinforcement kit	1
Tie-in collar	2
HD23 - 22 tower	3
Reinforcement kit assembly area	A
Reinforcement kit assembly height	B

C-9.9 ⚠ Reinforcement kit on HD23 - 22 tower - (CONTINUED)

Assembling the reinforcement kits

The reinforcement kit has eyebolts for lifting: use them to move one element at a time only.

Take particular care when harnessing the elements in the reinforcement kit. The operator must work in conditions of maximum safety.

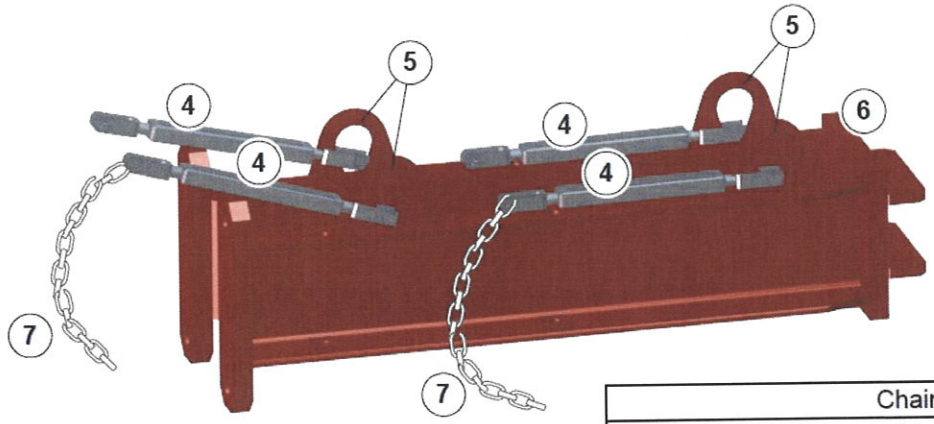
Recommended tools and equipment:

- 17, 24, 36 mm wrench;
- Hoisting point;
- Chain or hoisting rope.

Assemble the chain tensioners (supplied) on each hoisting point on the element to be assembled **(C-9.9 Fig. 2)**.

Assemble a chain (supplied) for each pair of chain tensioners **(C-9.9 Fig. 2)**.

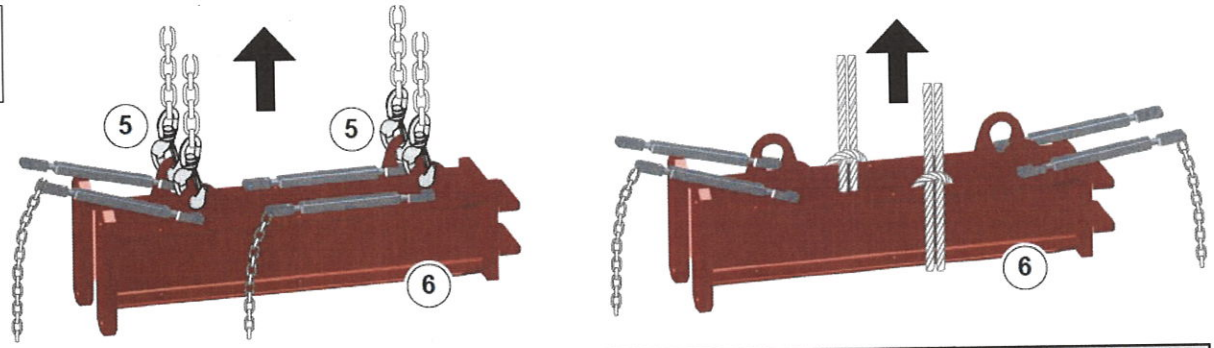
C-9.9 Fig. 2



Chain tensioner	4
Hoisting point	5
First reinforcement kit element	6
Chain	7

Sling the element at the hoisting points; use suitably sized chains or ropes to support the weight of the reinforcement kit **(C-9.9 Fig. 3)**.

C-9.9 Fig. 3



KIT ELEMENT WEIGHT 120 kg (265 lbs)	
Hoisting point	5
First reinforcement kit element	6

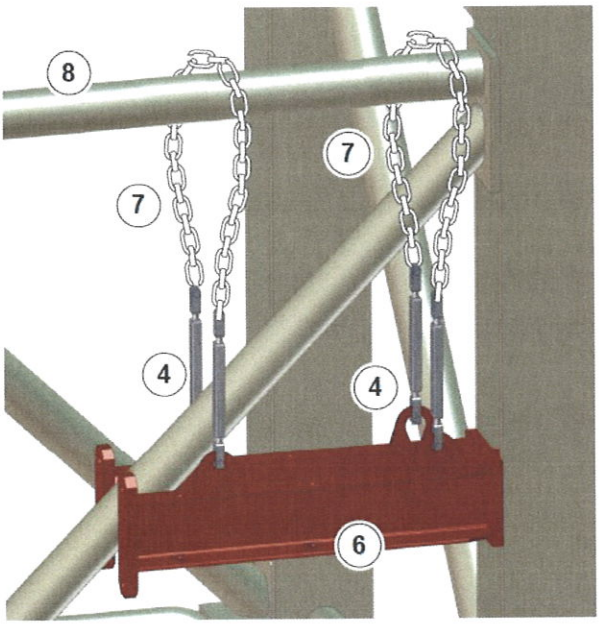
Lift the first element in the reinforcement kit using a suitable hoisting device and move it close to the tower. Please see the positions indicated in **C-9.9 Fig. 1**.

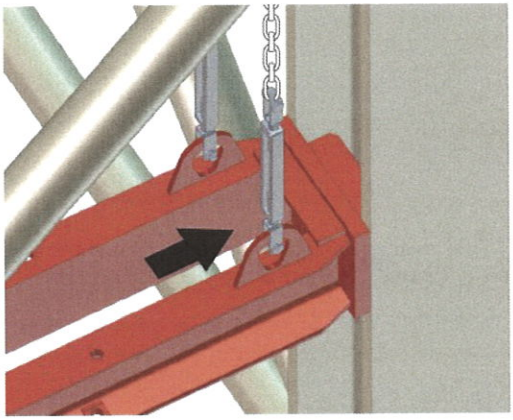
Fix the element to the closest tower crossbeam using the chains previously assembled on the chain tensioners **(C-9.9 Fig. 4)**.

Tension the chain tensioners until the chains are taut.

Remove the chains/ropes used to hoist the element and check that the element in the reinforcement kit is perfectly horizontal and in the correct position.

C-9.9 Fig. 4

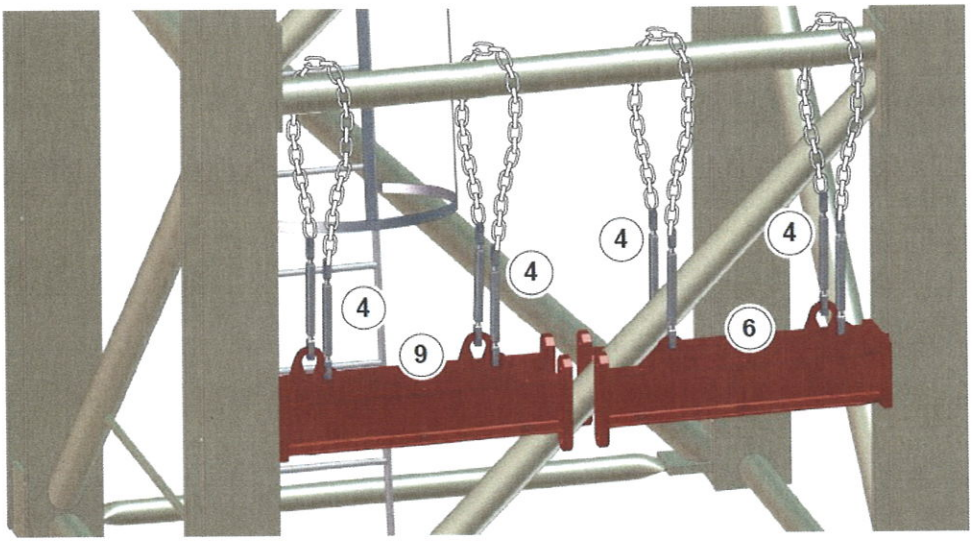




Chain tensioner	4
First reinforcement kit element	6
Chain	7
Tower crossbeam	8

Assemble the second element in the reinforcement kit to complete one side of the tower **(C-9.9 Fig. 5)**. Continue in the same way for the first element **(C-9.9 Fig. 4)**. Check that the two elements are perfectly aligned. Use the chain tensioners if necessary.

C-9.9 Fig. 5



Chain tensioner	4
First reinforcement kit element	6
Second reinforcement kit element	9

C-9.9 ⚠ Reinforcement kit on HD23 - 22 tower - (CONTINUED)

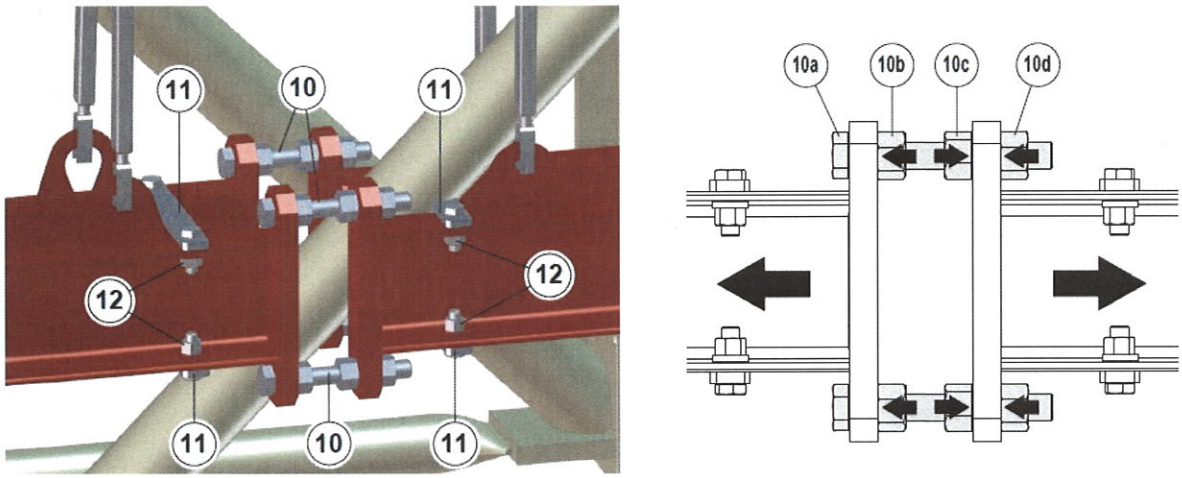
Insert the nuts and bolts (supplied) to fix the two elements in place **(C-9.9 Fig. 6)**.

First tighten the nuts (10b) to fasten the bolts (10a) to one of the two elements. Tighten the nuts (10c) in the direction of the second element. Once the pressure needed to keep the reinforcement kit fixed to the tower has been reached, tighten the last nut (10d).

Fix the plates on the reinforcement kit using the nuts and bolts supplied.

⚠ **Remove the chain tensioners and chains only once the reinforcement kit has been fully fixed to the tower.**

C-9.9 Fig. 6



Nuts and bolts for fixing the kit elements	**10**
Reinforcement plate	**11**
Nuts and bolts for fixing the reinforcement plate	**12**

Repeat for the remaining three sides of the tower.

C-9.9 Fig. 7

C-9 ASSEMBLING THE ACCESSORIES

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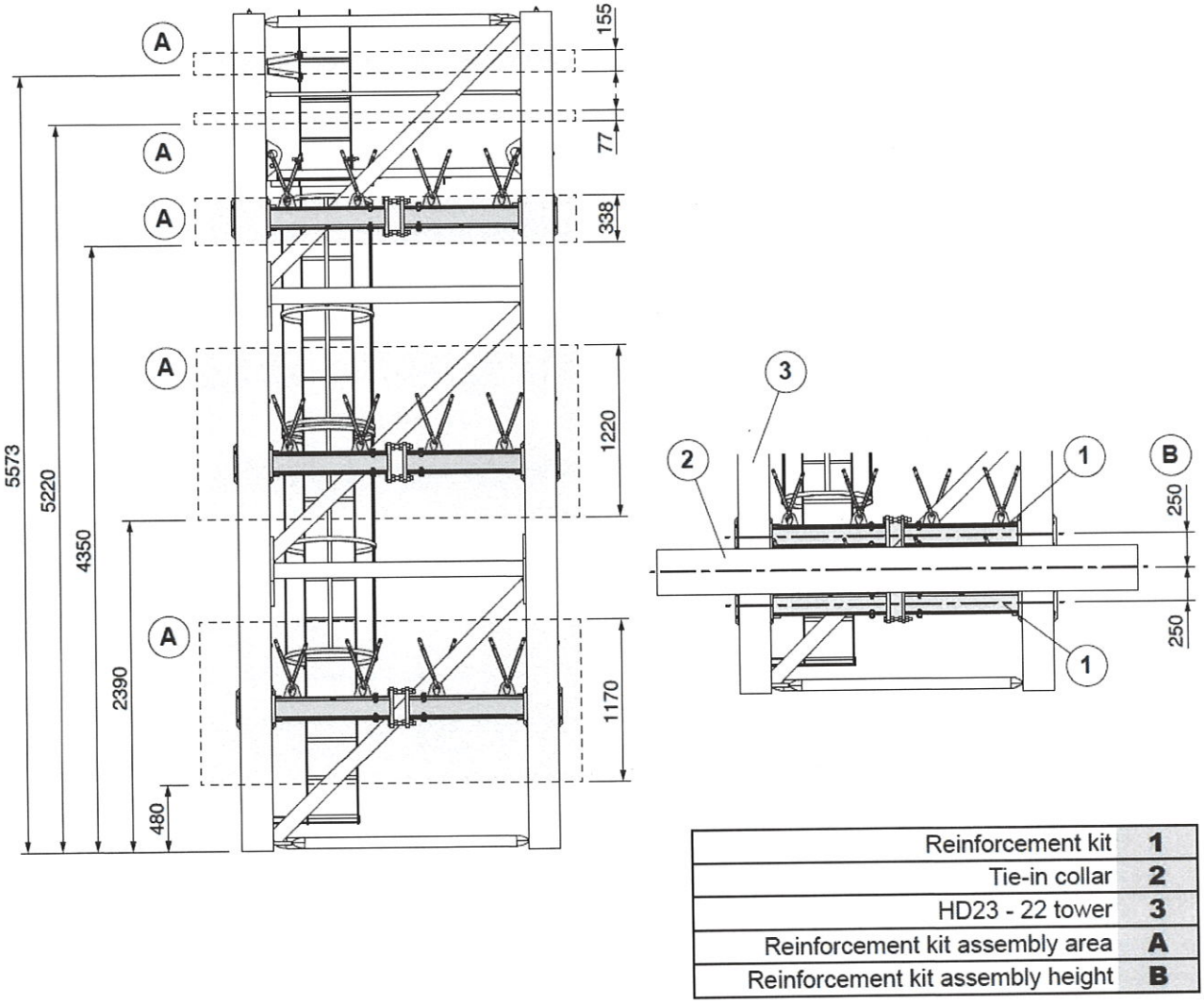

Reinforcement kit	1
Tie-in collar	2
HD23 - 22 tower	3
Reinforcement kit assembly area	A
Reinforcement kit assembly height	B

C-9.9 ⚠ Reinforcement kit on HD23 - 22 tower - (CONTINUED)

Assembling the reinforcement kits

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Take particular care when harnessing the elements in the reinforcement kit. The operator must work in conditions of maximum safety.

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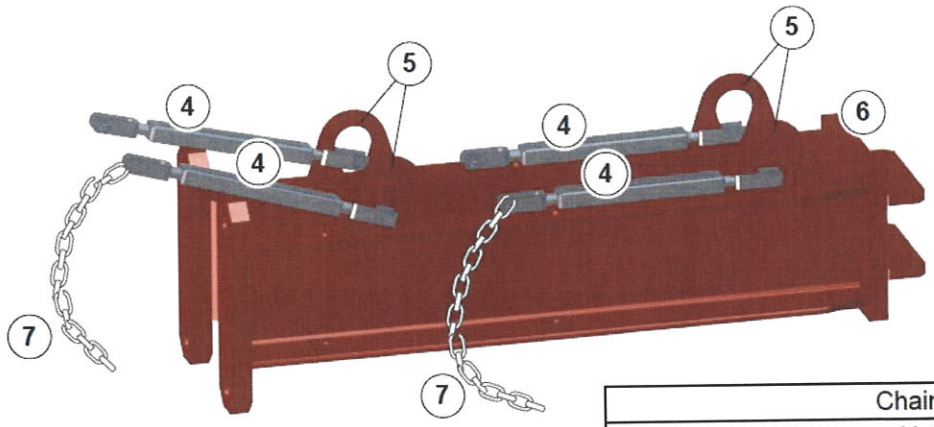
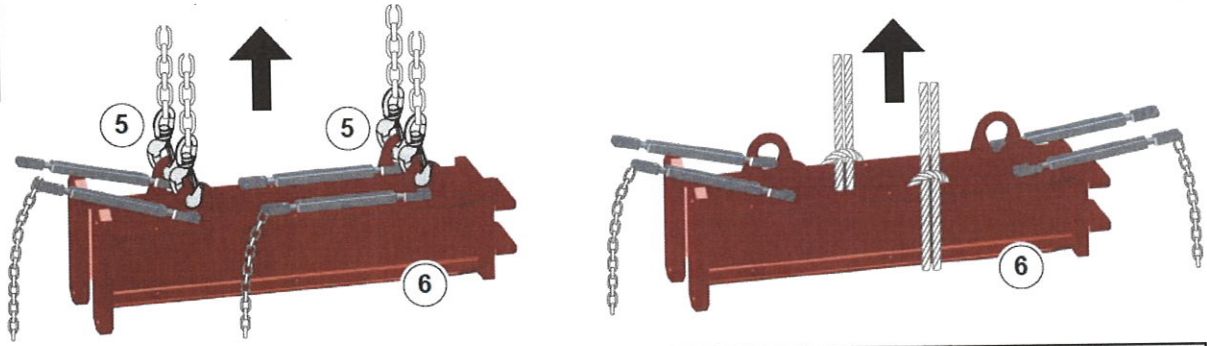


Chain tensioner	4
Hoisting point	5
First reinforcement kit element	6
Chain	7

Sling the element at the hoisting points; use suitably sized chains or ropes to support the weight of the reinforcement kit **(C-9.9 Fig. 3)**.

C-9.9 Fig. 3



KIT ELEMENT WEIGHT 120 kg (265 lbs)	
Hoisting point	5
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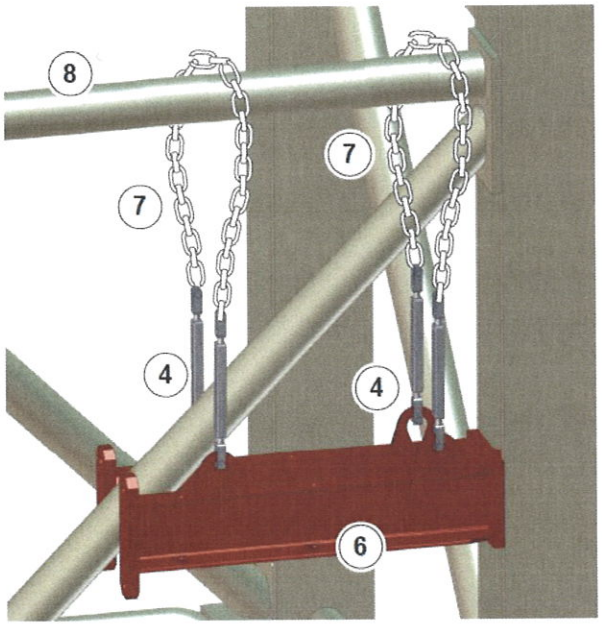
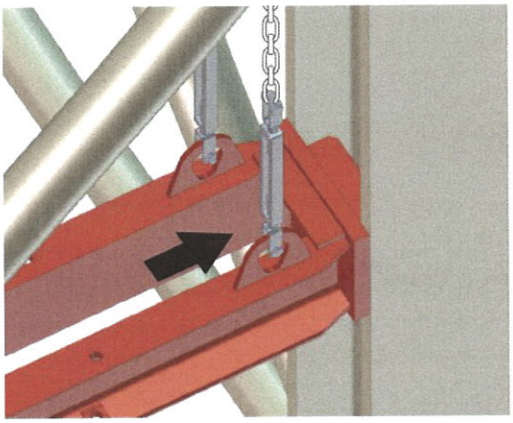
Fix the element to the closest tower crossbeam using the chains previously assembled on the chain tensioners **(C-9.9 Fig. 4)**.

Tension the chain tensioners until the chains are taut.

Remove the chains/ropes used to hoist the element and check that the element in the reinforcement kit is perfectly horizontal and in the correct position.

C-9.9 Fig. 4

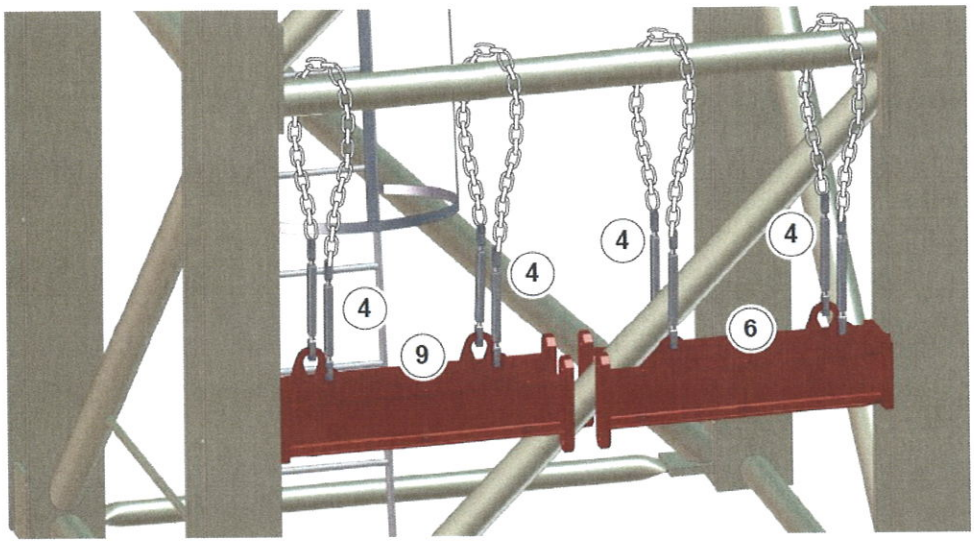




Chain tensioner	4
First reinforcement kit element	6
Chain	7
Tower crossbeam	8

Assemble the second element in the reinforcement kit to complete one side of the tower **(C-9.9 Fig. 5)**. Continue in the same way for the first element **(C-9.9 Fig. 4)**. Check that the two elements are perfectly aligned. Use the chain tensioners if necessary.

C-9.9 Fig. 5



Chain tensioner	4
First reinforcement kit element	6
Second reinforcement kit element	9

C-9.9 ⚠ Reinforcement kit on HD23 - 22 tower - (CONTINUED)

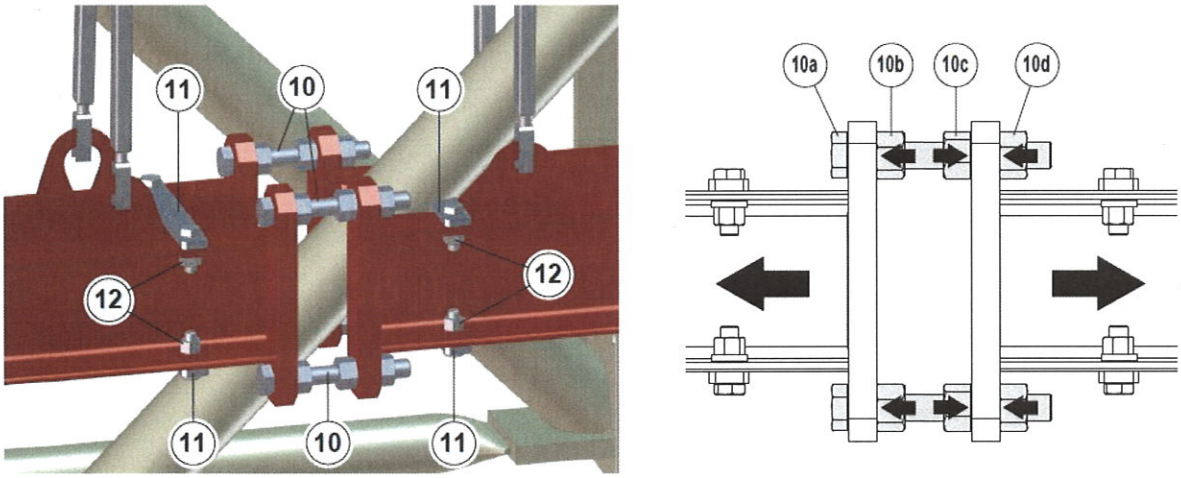
Insert the nuts and bolts (supplied) to fix the two elements in place **(C-9.9 Fig. 6)**.

First tighten the nuts (10b) to fasten the bolts (10a) to one of the two elements. Tighten the nuts (10c) in the direction of the second element. Once the pressure needed to keep the reinforcement kit fixed to the tower has been reached, tighten the last nut (10d).

Fix the plates on the reinforcement kit using the nuts and bolts supplied.

⚠ **Remove the chain tensioners and chains only once the reinforcement kit has been fully fixed to the tower.**

C-9.9 Fig. 6



Nuts and bolts for fixing the kit elements	**10**
Reinforcement plate	**11**
Nuts and bolts for fixing the reinforcement plate	**12**

Repeat for the remaining three sides of the tower.

C-9.9 Fig. 7