DNV·GL

Certificate No:
TAS00001YY

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Lifting Frame

with type designation(s)
M521XL Lifting Frame

Issued to
Forum U.S. Inc, dba DYNACON
Bryan, TX, USA

is found to comply with
DNV GL standard DNVGL-ST-0378 – Standard for offshore and platform lifting appliances

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Houston** on **2019-05-01**
This Certificate is valid until **2024-04-30**.
DNV GL local station: **Houston**

Approval Engineer: **Ronald Quiballo**

for **DNV GL**

Christian Nilsen
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Job Id: **262.1-011515-3**
Certificate No: **TAS00001YY**

Product description
Model M521XL Lifting Cage

Application/Limitation
This certificate is a renewal and replacement of type approval certificate S-8310.

Minimum Design Temperature:	-4°F (-20°C)
Safe Working Load (lifting with padeyes):	90,000 lbs (40,823 kg)
Dynamic Factor:	1.33
Maximum Sling Angle :	30 degrees with vertical

Type Approval documentation

Tests carried out
Prototype testing has been previously carried out. Testing can be referenced on DNV GL survey report A0015128-AMCC-2014-08-26-A dated 09-SEPT-2014.

Marking of product
For traceability the following marking is to be carried out on each product:
1. To be reviewed and approved by local DNVGL surveyor
2. Serial No.
3. Manufacturer's name or trademark
4. Additional marking at manufacturer's option

Other conditions/comments
1. Material Certificate 3.1 is required for all materials in the load bearing path.
2. Lifting gear shall be marked with the safe working load (SWL).
3. Procedures related to testing, welding, NDT, etc. are to be reviewed/approved by DNVGL's local surveyor.
4. Examination of padeyes shall be followed according to Appendix E 'Examination of Brackets, Skids, and Monorails' of DNV GL's Standard DNVGL-ST-0378, December 2016.
5. Testing of equipment shall be carried out in accordance to Section 7 'Testing and Test Certificates Marking' of DNV GL's Standard DNVGL-ST-0378, December 2016.

Periodical assessment
For retention of the Type Approval, DNVGL's surveyor shall perform a survey at 2 and 3.5 year intervals in accordance with DNVGL-CP-0338.

END OF CERTIFICATE