DIVISION 05 - METALS

05 00 00 METALS
05 01 00 Maintenance of Metals
  05 01 10 Maintenance of Structural Metal Framing
  05 10 20 Maintenance of Metal Joists
  05 10 30 Maintenance of Metal Decking
  05 10 40 Maintenance of Cold-Formed Metal Framing
  05 10 50 Maintenance of Metal Fabrications
  05 10 70 Maintenance of Decorative Metal
     05 01 70.91 Historic Treatment of Decorative Metal

05 05 00 Common Work Results for Metals
  05 05 13 Shop-Applied Coatings for Metal
  05 05 23 Metal Fastenings
  05 05 53 Security Metal Fastenings

05 06 00 Schedules for Metals
  05 06 10 Schedules for Structural Metal Framing
     05 06 10.13 Steel Column Schedule
     05 06 10.16 Steel Beam Schedule
  05 06 20 Schedules for Metal Joists
     05 06 20.13 Steel Joist Schedule
  05 06 30 Schedules for Metal Decking
  05 06 40 Schedules for Cold-Formed Metal Framing
  05 06 50 Schedules for Metal Fabricators
  05 06 70 Schedules for Decorative Metal

05 08 00 Commissioning of Metals

05 10 00 STRUCTURAL METAL FRAMING
05 12 00 Structural Steel Framing

INCLUDE IN CONSTRUCTION DOCUMENTS

SUBMITTALS

  LEED Submittals:

  A. Product Data for Credit MR 4.1 and Credit MR 4.2: For products having recycled content, documentation indicating percentages by weight of postconsumer and pre-consumer recycled content. Include statement indicating cost for each product having recycled content.

End of Section

05 12 13 Architecturally-Exposed Structural Steel Framing
05 12 16 Fabricated Fireproofed Steel Columns
05 12 23 Structural Steel for Buildings
05 12 33 Structural Steel for Bridges

05 13 00 Structural Stainless-Steel Framing
05 14 00 Structural Aluminum Framing
05 14 13 Architecturally-Exposed Structural Aluminum Framing

05 15 00 Wire Rope Assemblies
05 15 13 Aluminum Wire Rope Assemblies
05 15 16 Steel Wire Rope Assemblies
05 15 19 Stainless-Steel Wire Rope Assemblies

05 16 00 Structural Cabling
05 16 33 Bridge Cabling
05 20 00 METAL JOISTS
05 21 00 Steel Joist Framing
05 21 13 Deep Longspan Steel Joist Framing
05 21 16 Longspan Steel Joist Framing
05 21 19 Open Web Steel Joist Framing
05 21 23 Steel Joist Girder Framing

05 25 00 Aluminum Joist Framing

05 30 00 METAL DECKING
05 31 00 Steel Decking

INCLUDE IN CONSTRUCTION DOCUMENTS

SUBMITTALS

LEED Submittal:

A. Product Data for Credit MR 4.1 and Credit MR 4.2: For products having recycled content, documentation indicating percentages by weight of postconsumer and pre-consumer recycled content. Include statement indicating cost for each product having recycled content.

End of Section

05 31 13 Steel Floor Decking
05 31 23 Steel Roof Decking
05 31 33 Steel Form Decking

05 33 00 Aluminum Decking
05 33 13 Aluminum Floor Decking
05 33 23 Aluminum Roof Decking

05 34 00 Acoustical Metal Decking
05 35 00 Raceway Decking Assemblies

05 36 00 Composite Metal Decking
05 36 13 Composite Steel Plate and Elastomer Decking

05 40 00 COLD-FORMED METAL FRAMING

INCLUDE IN CONSTRUCTION DOCUMENTS

SUBMITTALS

LEED Submittals:

A. Product Data for Credit MR 4.1 and Credit MR 4.2: For products having recycled content, documentation indicating percentages by weight of postconsumer and pre-consumer recycled content. Include statement indicating cost for each product having recycled content.

End of Section

05 41 00 Structural Metal Stud Framing

CONSULTANT DESIGN GUIDELINE

If a structural metal stud framing system is specified, it is the desire of the university that the insulation be installed on the exterior outside of the wall system leaving the wall cavity empty and easy to accept cabling and other building infrastructure. This system is intended to keep the dew point completely away from the structural steel system and thereby increasing life and durability.

05 42 00 Cold-Formed Metal Joist Framing
05 42 13 Cold-Formed Metal Floor Joist Framing
05 42 23 Cold-Formed Metal Roof Joist Framing

05 43 00 Slotted Channel Framing

05 44 00 Cold–Formed Metal Trusses

05 45 00 Metal Support Assemblies
05 45 13 Mechanical Metal Supports
05 45 16 Electrical Metal Supports
05 45 19 Communications Metal Supports
05 45 23 Healthcare Metal Supports

05 50 00 METAL FABRICATIONS

INCLUDE IN CONSTRUCTION DOCUMENTS
LEED Submittals:

A. Product Data for Credit MR 4.1 and Credit MR 4.2: For products having recycled content, documentation indicating percentages by weight of postconsumer and pre-consumer recycled content. Include statement indicating cost for each product having recycled content.

Quality Assurance

A. Structural Ceiling Grid Manufacturer Qualifications: Grid system manufacturer with no less than 5 years' experience in manufacturing and installing adjustable metal framing ceiling grid supports. The manufacturer shall demonstrate experience of projects of similar scope and size. The manufacturer must certify in writing that components supplied have been produced in accordance with an established quality assurance program.

End of Section

05 51 00 Metal Stairs

INCLUDE IN CONSTRUCTION DOCUMENTS

LEED Submittals:

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End of Section

05 51 13 Metal Pan Stairs

CONSULTANT DESIGN GUIDELINE

If stairs are located outside and exposed to moisture, do not use concrete filled metal pan systems. Please consider galvanized or precast or other systems. The University has experienced rusting with painted steel metal pan stairs, especially on the parking decks.

05 51 16 Metal Floor Plate Stairs
05 51 19 Metal Floor Grating Stairs
05 51 23 Metal Fire Escapes
05 51 33 Metal Ladders
   05 51 33.13 Vertical Metal Ladders
   05 51 33.16 Inclined Metal Ladders
   05 51 33.23 Alternating Tread Ladders
05 51 36 Catwalks
05 51 36.13 Metal Catwalks

05 52 00 Metal Railings
05 52 13 Pipe and Tube Railings

INCLUDE IN CONSTRUCTION DOCUMENTS

SUBMITTALS

LEED Submittals:

A. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of postconsumer and pre-consumer recycled content. Include statement indicating cost for each product having recycled content.

End of Section

05 53 00 Metal Gratings

05 54 00 Metal Floor Plates

05 55 00 Metal Stair Treads and Nosings
05 55 13 Metal Stair Treads
05 55 16 Metal Stair Nosings

05 56 00 Metal Castings

05 58 00 Formed Metal Fabrications
05 58 13 Column Covers
05 58 16 Formed Metal Enclosures
05 58 19 Heating/Cooling Unit Covers

05 59 00 Metal Specialties
05 59 63 Detention Enclosures

05 70 00 DECORATIVE METAL

05 71 00 Decorative Metal Stairs
05 71 13 Fabricated Metal Spiral Stairs

05 73 00 Decorative Metal Railings
05 73 13 Glazed Decorative Metal Railings
05 73 16 Wire Rope Decorative Metal Railings

05 74 00 Decorative Metal Castings

05 75 00 Decorative Formed Metal
05 76 00 Decorative Forged Metal